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RS 13/6/53

Harry J. Svec (1918-2006)

Papers, 1865-2013, undated

Descriptive summary

creator: Svec, Harry J. (Harry John) (1918-)
title: Papers
dates: 1865-2013, undated
extent: 46.20 linear feet (28 record center cartons, 2 document boxes, 2 map case folders, 13 artifact boxes)
collection number: RS 13/6/53
repository: University Archives, Special Collections Department, Iowa State University.

Administrative information

access: Open for research
publication rights: Consult Head, Special Collections Department
preferred citation: Harry J. Svec Papers, RS 13/6/53, Special Collections Department, Iowa State University Library.

Abstract

Harry J. Svec (1918-2006) was a professor in the Chemistry Department and researcher at the Ames Laboratory at Iowa State University. Perhaps best known for his work with mass spectrometry, Svec also worked under Frank H. Spedding on the Manhattan Project and served as the departmental glassblower in the Chemistry Department. He earned his Ph.D. at Iowa State in 1950. This collection contains correspondence and various records of Svec's tenure at Iowa State, including materials such as published works, project records, lectures, and notebooks. Most of the materials cover his work in mass spectrometry, the Ames Laboratory and Chemistry Department, course involvement, research, and professional organizations.

Biographical note

Harry J. Svec was born in Cleveland, Ohio on June 24, 1918. He attended college as an undergraduate in Cleveland at John Carroll University, where he graduated magna cum laude in pre-medicine in 1941. That year he went on to graduate school at Iowa State College (University), where he became the departmental glassblower and created diffusion pumps and other items for the Chemistry Department. He was interrupted in his studies by World War II and work on the Manhattan Project. Under the direction of Frank H. Spedding, Svec and other Ames Laboratory staff, including Harley Wilhelm, worked on refining uranium and developed what is known as the Ames Process, which is a particularly efficient way of purifying uranium. From 1942-1945, the Ames Laboratory produced about 1,000 tons of uranium for the Manhattan Project.

After the Manhattan Project, Svec was appointed to the Ames Laboratory/Institute for Atomic Research. While conducting graduate work under Spedding, he built the first mass spectrometers at ISU. In 1950 he earned his Ph.D. and was granted faculty status. As a faculty member, he taught, published, and conducted research, contributing significantly to the use of mass spectrometry for analysis in many areas of chemistry. In 1978, Svec was named a distinguished professor, and upon his retirement in 1983, he was given the title Professor Emeritus.

Svec was a member of many societies and a Fellow of Royal Society of Chemistry, then known as The Chemical Society (London). He was a charter member of the American Society for Testing and Materials (ASTM) E-14 Committee on Mass Spectrometry, which became the American Society for Mass Spectrometry. He served that society from 1973-1978 in roles such as Vice President for Programs and President. He was also one of the founding editors for *International Journal of Mass Spectrometry and Ion Physics*, which is now the *International Journal of Mass Spectrometry*. In 1978, Dr. Svec was an early contributor to laser mass spectrometry as well. Additionally, the standard reference material that has been used to validate lithium isotopic measurements is called "L-Svec" in his honor, since he prepared and analyzed the material. In 1984, Svec received the American Chemical Society's Zimmerman Award for Environmental

Science for his work in developing the resin extraction and gas chromatography-mass spectrometry (GC-MS) methods for removing organic pollutants in water.

When he retired in June of 1983, he had been associated with Iowa State for 42 years. After this time, Svec finished writing a history of the Chemistry Department at Iowa State University that documented events, developments, and people through the World War II years. This work was published by the Chemistry Department in 2006. Svec passed away on November 28, 2006. Svec married Edna Bruno in 1943, and they had nine children together – five sons and four daughters. His wife, Edna Svec, passed away in June 2013.

Collection description

The collection (1865-2013, undated) includes such materials as artifacts, correspondence, papers, interview transcripts, published works, research materials, project records, proposals, notebooks, lectures, and interviews with former Chemistry Department faculty, including Henry Gilman, on audiocassettes. Most of the materials cover his work in mass spectrometry, the Ames Laboratory and Chemistry Department, course involvement, research, and professional organizations.

The terms "mass spectrometry" and "mass spectroscopy" are both used in the collection. Since these refer to the same technique and "mass spectrometry" is the current preferred term, "spectroscopy" has been replaced except in publication or organization titles.

An appendix of frequently used acronyms is included at the end of this finding aid.

Negatives from the collection are housed in the vault, as follows (negative numbers are also included with associated folders in the container list):

5x7: 114533-114574

4x5: 106489-106517, 114518-114532, 114619

35mm strips: 114463-114479, 114495-114517, 114616-114618, 114642-114643

120mm strips: 114575-114586, 114601-114615, 114620

Related materials

Related collections in the Special Collections Department, Iowa State University Library include:

- Ames Laboratory Records (RS 17/1)
- Frank H. Spedding Papers (17/1/11)
- Nellie Naylor Papers (13/6/51)
- Rachel Edgar Papers (13/6/56)

- Robert J. Angelici Papers (13/6/20)
- Department of Chemistry Oral History Collection (13/6/5)
- Velmer Fassel Papers (17/1/51)
- Henry Gilman Papers (13/6/52)
- *Chemistry at Iowa State University: Some historical accounts of the early years* (QD47.5 I83 I58x 2006)

Organization

This collection is organized into two series:

Series 1, Correspondence, 1898-1995, undated (alphabetical)

Series 2, Professional Activities, 1865-2013, undated (alphabetical)

Correspondence is listed in alphabetical order except for one box, which was originally in chronological order. Professional Activities is also listed in alphabetical order.

Description of series

Series 1 Correspondence 1898-1995, undated

extent: 8.01 linear feet (6 record center cartons, 1 half document box)

description: This series contains professional and personal correspondence between Svec and other individuals or organizations. The files are listed in alphabetical order, with box 8 listed chronologically.

Container list

Box	Folder	Title	Dates
7	9	American Society for Mass Spectrometry (ASMS) After the Program Correspondence	1973
7	2	ASMS Correspondence	1976
7	3	ASMS Correspondence: Field, F. H.	1972-1973
7	4	ASMS Correspondence: Laug, Matt	1972-1977
7	5	ASMS Correspondence: Saalfeld, Fred	1972-1978
7	7	ASMS General Program Correspondence	1973
7	6	ASMS Pre-Program Correspondence	1972
7	11	ASMS Correspondence sent out by Vice President	1973-1974
7	8	ASMS Correspondence on Workshops	1972-1973

Box	Folder	Title	Dates
7	13	ASMS Correspondence on Workshops, Committee Meetings	1973-1974
13	1-2	Correspondence	1950-1955
13	3	Correspondence	1955
13	4	Correspondence	1969-1987
13	5	Correspondence	1973-1982
17	1	Correspondence	1949-1956
17	2	Correspondence	1955-1957
17	3	Correspondence	1957
24	1	Correspondence	1971-1975
24	2	Correspondence	1974-1996
24	3	Correspondence	undated
13	6	Correspondence (Bound Volume)	1956-1962
24	19	Correspondence: Abel Goldman, Joanne	2000
1	5	Correspondence: Adams, Dr. O. W.	1981
8	1	Correspondence: Ahearn, A. J.	1967-1972
17	4	Correspondence: Alpha Chi Sigma – Grand Chapter	1953-1956
30	1	Correspondence: Alumni Letters	1974
24	4	Correspondence: American Chemical Society	1974-1975
24	5	Correspondence: ASMS Committee III	1974
24	6	Correspondence: American Water Works Association (AWWA) Project	1976-1978
1	6	Correspondence: Beckey, H. D.	1972-1983
1	7	Correspondence: Berry, Jean re: Clifford Berry	1984
1	8	Correspondence: Berry Nomination	1984-1985
24	7	Correspondence: Beske, Dr. H. E.	1976
1	9	Correspondence: Beynon, John H.	1966-1986
1	10	Correspondence: Catus, Gene	1980-1982
1	11	Correspondence: Charalambous, John	1972-1975
24	9	Correspondence: Chemistry Alumni Letters	1950 circa, 1974

Box	Folder	Title	Dates
24	10	Correspondence: Chemistry Alumni Letters	1965-1974, undated
24	11	Correspondence: Chemistry Department	1986-1988
24	12	Correspondence: Chemistry Department "Old Timers" (1 b/w photograph)	1984-1988
24	13	Correspondence: Chemistry Department and Professional	1898-1986
24	14	Correspondence: Computer Access	1983
8	2	Correspondence: Daane, Adrian	1966-1972
24	8	Correspondence: De Bierre, Paul	1993
24	15	Correspondence: Department of Physics	1967
1	12	Correspondence: DePristo, Andrew	1982-1983
24	16	Correspondence: Edgar, Rachel	1967-1975
24	17	Correspondence: Edgar, Rachel	1968-1969
24	18	Correspondence: Edgar, Rachel	1974-1975
1	13	Correspondence: Elbert, Stephen	1978-1982
1	14	Correspondence: Espenson, James	1978-1982
13	7-13	Correspondence: Fassel, Velmer A.	1969-1978
1	15-17	Correspondence: Fassel, Velmer A.	1978-1983
17	5	Correspondence: Film Bookings	1960-1962
17	6	Correspondence: Film Reviews	1960-1961
17	7	Correspondence: Films	1960
8	3	Correspondence: Finney, Clifton	1971-1973
13	14	Correspondence: Futrell, Jean	1974
1	18	Correspondence: Futrell, Jean	1985-1986
8	5	Correspondence: Gard, Gary	1967-1971
30	2	Correspondence: Gilman, Henry	1984-1986
1	19-22	Correspondence: Hansen, R. S.	1973-1983
1	23	Correspondence: Hansen Nomination for Distinguished Fellow	1981
13	15	Correspondence: Harrington, R. E.	1951-1953
1	28	Correspondence: Hasler Award, Nier	1972-1973

Box	Folder	Title	Dates
1	24	Correspondence: Hayes, John	1978-1981
1	25	Correspondence: Herzog, Leonard	1966-1972
8	4	Correspondence: Hickey, Robert	1968-1970
1	26	Correspondence: Hoffman, D. K.	1981-1984
1	27	Correspondence: Honig, R. E.	1966-1987
24	20	Correspondence: John Carroll University	1954
1	29	Correspondence: Junk, Gregor	1959-1982
1	30	Correspondence: Kliever, K. L.	1978-1981
24	21-22	Correspondence: Naylor, Nellie (1 color photograph, 9 b/w photographs in folder 21)	1983-1987
24	23	Correspondence: Naylor, Nellie	1984-1993
1	31	Correspondence: Ng, Cheuk-Yiu	1976-1982
24	24	Correspondence: Nier, Alfred	1976-1986
17	8	Correspondence: Peiser, H. Steffen	1969-1970
13	17	Correspondence: Personal	1967-1968
17	9	Correspondence: Personal	1968-1969
24	25	Correspondence: Personal	1979
24	26	Correspondence: Peterson, Norm	1959-1986
13	16	Correspondence: Peterson, Norm	1961-1966
13	19	Correspondence: Physical Chemistry Lab Manual	1958
24	27	Correspondence: Professional	1969
1	1	Correspondence: Professional	1974-1979
1	2	Correspondence: Professional	1985
30	3	Correspondence: Professional	1985-1990
1	3	Correspondence: Professional	1986
1	4	Correspondence: Professional	1987
24	28	Correspondence: Professional	1989-1997
24	29	Correspondence: Reed, Ivor	1966-1983
24	30	Correspondence: Ruedenberg, Klaus	1981-1983
24	31	Correspondence: Saalfeld, Fred	1958-1985
24	32	Correspondence: Saalfeld, Fred	1962-1968

Box	Folder	Title	Dates
24	33	Correspondence: Schulten, H. R.	1978-1979
1	32	Correspondence: Shankai, Zhao	1981-1985
24	34	Correspondence: Small, Gerald	1968-1983
24	35	Correspondence: Small, Gerald Promotion	1977
24	36	Correspondence: Sparrow, Gene	1967
30	4	Correspondence: Spedding, Frank H.	1984
24	37	Correspondence: Spedding, Frank H./Gerald Small Problem	1978
1	33	Correspondence: Strauss, Roland	1981
1	34	Correspondence: Struve, Walter	1980-1983
24	38	Correspondence: Thomas, Byron H.	1987-1995
1	35	Correspondence: Tsanov, Tsano	1982-1983
1	36-37	Correspondence: Tsuchiya, Masahiko	1965-1986
30	5	Correspondence: Verhoeven, John Re: Renaming the Metallurgy Building after Harley Wilhelm	1985
8	6	Correspondence: January 1975	1975
8	7	Correspondence: February 1975	1975
8	8	Correspondence: March 1975	1975
8	9	Correspondence: April 1975	1975
8	10	Correspondence: May 1975	1975
8	11	Correspondence: June 1975	1975
8	12	Correspondence: July 1975	1975
8	13	Correspondence: August 1975	1975
8	14	Correspondence: September 1975	1975
8	15	Correspondence: October 1975	1975
8	16	Correspondence: November 1975	1975
8	17	Correspondence: December 1975	1975
8	18	Correspondence: January 1976	1976
8	19	Correspondence: February 1976	1976
8	20	Correspondence: March 1976	1976
8	21	Correspondence: April 1976	1976

Box	Folder	Title	Dates
8	22	Correspondence: May 1976	1976
8	23	Correspondence: June 1976	1976
8	24	Correspondence: July 1976	1976
8	25	Correspondence: September 1976	1976
8	26	Correspondence: October 1976	1976
8	27	Correspondence: November 1976	1976
8	28	Correspondence: December 1976	1976
8	29	Correspondence: January 1977	1977
8	30	Correspondence: February 1977	1977
8	31	Correspondence: March 1977	1977
8	32	Correspondence: April 1977	1977
8	33	Correspondence: May 1977	1977
8	34	Correspondence: June 1977	1977
8	35	Correspondence: July 1977	1977
8	36	Correspondence: August 1977	1977
8	37	Correspondence: September 1977	1977
8	38	Correspondence: October 1977	1977
8	39	Correspondence: November 1977	1977
8	40	Correspondence: December 1977	1977
8	41	Correspondence: January 1978	1978
8	42	Correspondence: February 1978	1978
8	43	Correspondence: March 1978	1978
8	44	Correspondence: April 1978	1978
8	45	Correspondence: May 1978	1978
8	46	Correspondence: June 1978	1978
8	47	Correspondence: July 1978	1978
8	48	Correspondence: August 1978	1978
8	49	Correspondence: September 1978	1978
8	50	Correspondence: October 1978	1978
8	51	Correspondence: November 1978	1978
8	52	Correspondence: December 1978	1978

Box	Folder	Title	Dates
8	53	Correspondence: January 1979	1979
8	54	Correspondence: February 1979	1979
8	55	Correspondence: March 1979	1979
8	56	Correspondence: April 1979	1979
8	57	Correspondence: May 1979	1979
8	58	Correspondence: June 1979	1979
8	59	Correspondence: July 1979	1979
8	60	Correspondence: August 1979	1979
8	61	Correspondence: September 1979	1979
8	62	Correspondence: October 1979	1979
8	63	Correspondence: November 1979	1979
8	64	Correspondence: December 1979	1979
8	65	Correspondence: January 1980	1980
8	66	Correspondence: February 1980	1980
8	67	Correspondence: March 1980	1980
8	68	Correspondence: April 1980	1980
8	69	Correspondence: May 1980	1980
8	70	Correspondence: June 1980	1980
8	71	Correspondence: July 1980	1980
8	72	Correspondence: August 1980	1980
8	73	Correspondence: September 1980	1980
8	74	Correspondence: October 1980	1980
8	75	Correspondence: November 1980	1980
8	76	Correspondence: December 1980	1980
8	77	Correspondence: January 1981	1981
8	78	Correspondence: February 1981	1981
8	79	Correspondence: March 1981	1981
8	80	Correspondence: April 1981	1981
8	81	Correspondence: May 1981	1981
8	82	Correspondence: June 1981	1981
8	83	Correspondence: July 1981	1981

Box	Folder	Title	Dates
8	84	Correspondence: August 1981	1981
8	85	Correspondence: September 1981	1981
8	86	Correspondence: October 1981	1981
8	87	Correspondence: November 1981	1981
8	88	Correspondence: December 1981	1981
8	89	Correspondence: January 1982	1982
8	90	Correspondence: February 1982	1982
8	91	Correspondence: March 1982	1982
8	92	Correspondence: April 1982	1982
8	93	Correspondence: May 1982	1982
8	94	Correspondence: June 1982	1982
8	95	Correspondence: July 1982	1982
8	96	Correspondence: August 1982	1982
8	97	Correspondence: September 1982	1982
8	98	Correspondence: October 1982	1982
8	99	Correspondence: November 1982	1982
8	100	Correspondence: December 1982	1982
8	101	Correspondence: January 1983	1983
8	102	Correspondence: February 1983	1983
8	103	Correspondence: March 1983	1983
8	104	Correspondence: April 1983	1983
8	105	Correspondence: May 1983	1983
8	106	Correspondence: July 1983	1983
8	107	Correspondence: September 1983	1983
8	108	Correspondence: October 1983	1983
8	109	Correspondence: November 1983	1983
8	110	Correspondence: December 1983	1983
8	111	Correspondence: January 1984	1984
8	112	Correspondence: March 1984	1984
8	113	Correspondence: April 1984	1984
8	114	Correspondence: May 1984	1984

Box	Folder	Title	Dates
8	115	Correspondence: June 1984	1984
8	116	Correspondence: July 1984	1984
8	117	Correspondence: August 1984	1984
8	118	Correspondence: September 1984	1984
8	119	Correspondence: October 1984	1984
8	120	Correspondence: November 1984	1984
8	121	Correspondence: December 1984	1984
17	10	Correspondence and Memorandums	1956
17	11	Correspondence and Memorandums	1957
17	12	Correspondence and Memorandums	1958
17	13	Correspondence and Memorandums	1959
17	47	Correspondence and Memorandums	1966
17	30	Correspondence and Memorandums: A	1965
17	22	Correspondence and Memorandums: A-D	1963
17	26	Correspondence and Memorandums: A-D	1964
17	19	Correspondence and Memorandums: A-F	1962
17	16	Correspondence and Memorandums: A-G	1961
17	14	Correspondence and Memorandums: A-H	1960
17	31	Correspondence and Memorandums: B	1965
17	32	Correspondence and Memorandums: C	1965
17	33	Correspondence and Memorandums: D	1965
17	34	Correspondence and Memorandums: E	1965
17	27	Correspondence and Memorandums: E-G	1964
17	23	Correspondence and Memorandums: E-J	1963
17	35	Correspondence and Memorandums: F	1965
17	36	Correspondence and Memorandums: G	1965
17	20	Correspondence and Memorandums: G-Q	1962
17	37	Correspondence and Memorandums: H	1965
17	17	Correspondence and Memorandums: H-O	1961
17	28	Correspondence and Memorandums: H-O	1964
17	15	Correspondence and Memorandums: I-Z	1960

Box	Folder	Title	Dates
17	38	Correspondence and Memorandums: J	1965
17	39	Correspondence and Memorandums: K	1965
17	24	Correspondence and Memorandums: K-R	1963
17	40	Correspondence and Memorandums: L	1965
17	41	Correspondence and Memorandums: M	1965
17	42	Correspondence and Memorandums: N-O	1965
17	43	Correspondence and Memorandums: P	1965
17	18	Correspondence and Memorandums: P-Z	1961
17	29	Correspondence and Memorandums: P-Z	1964
17	44	Correspondence and Memorandums: R	1965
17	21	Correspondence and Memorandums: R-Z	1962
17	45	Correspondence and Memorandums: S	1965
17	25	Correspondence and Memorandums: S-Z	1963
17	46	Correspondence and Memorandums: T-Z	1965
13	18	International Journal of Mass Spectrometry and Ion Physics (IJMSIP) Correspondence: Special Correspondence	1968
7	42	IJMSIP Correspondence: General, "U-V"	1969-1982
7	43	IJMSIP Correspondence: General, "W-Z"	1968-1969
8	125	Memorandums: Campus	1972-1973
8	127	Memorandums: Chemistry Department	1967-1969
8	126	Memorandums: Chemistry Department	1970-1972
8	123	Memorandums: Chemistry Department	1973-1975
24	39	Memorandums: Chemistry Department	1977-1978
7	44-46	Memorandums: Corbett, John	1968-1973
8	122	Memorandums: General Energy Research and Development Administration (ERDA)	1967-1976
13	20	Memorandums: Graduate Assistants	Undated
17	48	Memorandums: Special Memos	1960-1969
8	124	Memorandums: University	1973-1975

Description of series**Series 2 Professional Activities 1865-2013, undated**

extent: 38.19 linear feet (22 record center cartons, 2 document boxes, 2 map case folders, 13 artifact boxes)

description: This series includes research, course materials, published works, conferences, departments, and professional organizations in which Dr. Svec was involved. Artifacts are listed at the end of this series. The files are listed in alphabetical order.

Container list

Box	Folder	Title	Dates
2	47	American Association of University Professors (AAUP)	1972
2	30	Abstracts of Mass Spectrometry Meetings	1973-1974
2	43	Academic Advising	1971-1974
14	19	Advisory Council on College Chemistry (ACCC) Conference Report on Liberal Arts Colleges and the Education of Chemists	1969
2	28	American Chemical Society (ACS) Award for Creative Advances: Nomination for Gerald J. Small	1982-1987, undated
16	42	ACS and ASTM E-14 Meetings	1960 circa
3	49	ACS Meeting, Kalamazoo, Michigan – Zimmerman Award (1 b/w photograph)	1984
3	27	Ad Hoc Committee on Locker Shortages	1970-1971
10	14	Advanced Physical Chemistry and Thermodynamics	1945-1947
14	50	Advising	1966, undated
14	2	Advising	1967-1969
23	6	Atomic Energy Commission (AEC)	1958-1973, undated
14	13	AEC	1960-1967, undated
4	31	AEC: Considerations in Planning Program Reviews by AEC Personnel	1969-1972
16	25	AEC: Corrosion Symposium, 10 th Annual	1961
23	26	AEC Grant Proposal for Teaching Equipment	1961-1962

Box	Folder	Title	Dates
16	5	AEC: Inventory of Equipment	1949-1958
4	25	AEC Mid-Year Review	1974-1975
15	24	AEC Review	1970
4	33	AEC Spring Review	1973
23	46	Alpha Chi Sigma	1951-1953
16	28	Alpha Chi Sigma	1954-1955
16	29	Alpha Chi Sigma	1955-1956
16	30	Alpha Chi Sigma	1956-1957
16	31	Alpha Chi Sigma	1957-1959
16	32	Alpha Chi Sigma	1959
23	45	Alpha Chi Sigma	1960-1962
15	17	Alpha Chi Sigma (1 b/w photograph)	1965-1970, undated
2	45	Alpha Chi Sigma	1969-1982
16	26	Alpha Chi Sigma: Alpha Chi Chapter	1953-1954
25	7	Alpha Chi Sigma: <i>The Chrome and Blue</i>	1944
25	8	Alpha Chi Sigma: <i>The Chrome and Blue</i>	1945-1946
25	4	Alpha Chi Sigma: Constitution	1952-1960
25	6	Alpha Chi Sigma: <i>The Hexagon</i>	1932-1933
25	21	Alpha Chi Sigma: <i>The Hexagon</i>	1983-1988
25	25	Alpha Chi Sigma: <i>The Hexagon</i>	1988
25	5	Alpha Chi Sigma: Pledge Manual	1940-1942
25	9	Alpha Chi Sigma: Procedure Manuals	1947-1951
25	1	Alpha Chi Sigma and Phi Lambda Upsilon	1946-1950
16	27	Alpha Chi Sigma Stationary	undated
20	63	Ames Laboratory 25 th Anniversary Lecture: "A Quarter Century of Nuclear Metallurgy," by Jules M. Simmons	1967
9	36	Ames Laboratory: 189 Copy	1970
6	36	Ames Laboratory: 189 Submissions	1974-1975
20	8	Ames Laboratory Analysis Projects	1976-1977
3	56	Ames Laboratory: Annual Summary Research Reports	1965

Box	Folder	Title	Dates
3	55	Ames Laboratory: Annual Summary Research Reports	1967-1968
15	19	Ames Laboratory: Annual Summary Research Reports	1967-1968
3	53	Ames Laboratory: Annual Summary Research Reports	1969
15	20	Ames Laboratory: Annual Summary Research Reports	1969
3	54	Ames Laboratory: Annual Summary Research Reports	1969-1970
3	52	Ames Laboratory: Annual Summary Research Reports	1970-1971
19	45	Ames Laboratory Budget	1985
15	52	Ames Laboratory Budget: Supplies and Service	1968-1969
6	35	Ames Laboratory: Chemical Physics 04310	1974-1977
6	37	Ames Laboratory: Chemical Physics 04310	1975-1976
19	52	Ames Laboratory Chemical Sciences Program Review	1980
23	14	Ames Laboratory Chemical Sciences Program Review	1980
15	3	Ames Laboratory Committees	1967
19	48	Ames Laboratory Computer Problems	1980-1981
12	54	Ames Laboratory Emergency Plan	1967
25	10	Ames Laboratory/EMRRI (Energy and Mineral Resources Research Institute) <i>Changing Scene</i> Publications	1974-1975, 1977 circa
12	44	Ames Laboratory Equipment Committee: Chemistry Division	1968-1970
12	45	Ames Laboratory Equipment Committee: General	1968-1970
25	11	Ames Laboratory: <i>Highlights</i>	1972-1973
20	56	Ames Laboratory: In-House Manuscripts (original copies)	undated
20	57	Ames Laboratory Institutional Plan	1977-1979
4	17	Ames Laboratory Instrumentation Services Advisory Committee	1972-1978
20	68	Ames Laboratory: Inventory List and Ames Lab Institute for Atomic Research Employee Handbook	undated
4	23	Ames Laboratory Materials and Chemical Sciences Review	1979
4	37	Ames Laboratory On-Site Review	1970
4	35	Ames Laboratory On-Site Review	1971
4	36	Ames Laboratory On-Site Review Outlines	1971

Box	Folder	Title	Dates
14	10	Ames Laboratory Open House	1964
14	16	Ames Laboratory Open House	1964-1967
19	50	Ames Laboratory Operating Budget	1979-1980
20	65	Ames Laboratory: Personnel Manual for Institute for Atomic Research and Ames Laboratory	1949
20	48	Ames Laboratory Plans	1976
15	54	Ames Laboratory Policy	1948-1954
20	51	Ames Laboratory Profile	1977
21	21	Ames Laboratory Publications	1964-1995
20	64	Ames Laboratory: Vanadium "Round Robin"	undated
23	13	Ames Power Plant and EV Programs	1978-1980
20	54	Ames Power Plant Study	1978
20	7	Analysis Equipment	1979
20	2	Analysis: Mass Spectrometry Analysis Equipment	1980-1983
3	50	Analytical Advisory Committee	1969
20	30	Analytical Chemistry Faculty	1975-1976
20	31	Analytical Chemistry Preliminary Exams	1977-1978
19	59	Analytical Mass Spectrometry	1982-1983
20	3	Analytical Mass Spectrometry	1980-1981
20	1	Analytical Mass Spectrometry	1981-1982
20	6	Analytical Research	1978-1979
19	28	Analytical Service Reports	1977
15	21	Analytical Services Advisory Committee	1968-1970
3	51	Analytical Services	1969-1980
20	16	Analytical Services	1974-1975
20	15	Analytical Services	1976-1977
20	13	Analytical Services	1977-1978
20	5	Analytical Services	1979-1980
20	4	Analytical Services Manning Levels	1980-1981
2	46	Analytical Staff	1975

Box	Folder	Title	Dates
16	24	Annual Meetings and Symposiums: Committee on Vacuum Techniques, ASTM E-14	1956-1958
25	16	Article Dedicated to Dr. Svec	1989
26	18	Articles, F. J. Zimmerman Award	1949-1988
3	61	Articles: "Chemical Migration in the Earth's Crust"	1977
23	44	Articles: "Electronics in Mass Spectrometry" (original)	1965
10	8	Articles: "Electronics in Mass Spectrometry" (photocopy and notes)	1965
20	67	Articles: "Magnetically Controlled Quartz Fiber Microbalance"	undated
19	37	Articles: "The Mass Spectra and Ionization Potentials of the Neutral Fragments During the Electron Bombardment of Several Aromatic Compounds" (draft)	Undated
23	29	Articles: "A Mass Spectrometer for the Measurement of Stable Isotopes" (8 b/w photographs)	1947
23	42	Articles: "Metal-Water Reactions"	undated
16	17	Articles: "A New Micro-Balance"	1937
26	4	Articles: "Nitrogen Isotope Abundance Measurements"	1958
21	33	Articles: "On the Metabolism of Bacteria"	1942-1944
16	18	Articles: "Preparation of the Acetylacetonates of Some Rare Earth Elements and Thorium and Study of Some of Their Properties"	1948
5	32	Articles: "Recommendations on Nomenclature and Symbolism for Mass Spectroscopy"	1983
23	7	Articles: "A Report of an Investigation on Three Ph.D. Theses from the College of Education" (draft)	1971
23	21	Articles: "The State of the Laboratory – 1986"	1986
23	11	Articles: "Studies on the Preparation, Properties and Analysis of High Purity Yttrium Oxide and Yttrium Metal at the Ames Laboratory"	undated
25	19	American Society for Mass Spectrometry (ASMS): 20 th Annual Conference on Mass Spectrometry and Allied Topics: Papers Submitted	1971-1972, undated
21	16	ASMS: 21 st Annual Conference on Mass Spectrometry and Allied Topics	1972

Box	Folder	Title	Dates
26	14	ASMS: 32 nd Annual Conference on Mass Spectrometry and Allied Topics	1984
25	18	ASMS: 39 th ASMS Conference on Mass Spectrometry and Allied Topics	1991
5	15	ASMS Air Travel to Florence	1976
23	9	ASMS and Nobel Prize in Chemistry (1 b/w photograph)	1972-1981
6	14	ASMS Announcements about Abstracts	1973-1974
5	23	ASMS: Announcements about Previous Meetings	1969-1972
4	44	ASMS Annual Meeting, San Antonio	1983-1984
5	10	ASMS Board Meeting	1975
5	12	ASMS Board Meeting	1975
6	16	ASMS Committee III Proposal – Steve Heller and Mike Grayson	1975
21	18	ASMS Conventions	1973-1974
6	3	ASMS Copies of Mailings	1972-1973
6	4	ASMS Final Program	1973
5	7	ASMS Florence Trip Deposits	1976
15	18	ASMS: Formation	undated
5	22	ASMS General	1968-1969
5	21	ASMS General	1970-1971
5	27	ASMS General	1970-1971
5	20	ASMS General	1971-1972
5	26	ASMS General	1971-1974
5	19	ASMS General	1972-1973
6	20	ASMS General	1972-1974
5	18	ASMS General (1 b/w photograph)	1974-1985
6	15	ASMS Information on Hotels	1974-1975
6	21	ASMS Job Descriptions of Executive Board Members	1975-1976
5	6	ASMS: Job Descriptions for Officers	1976
6	8	ASMS Manuscript Printing	1973
6	9	ASMS Manuscripts for Conference	1973

Box	Folder	Title	Dates
5	29-31	ASMS: Mass Spectrometry Society Formation	1963-1972
6	1	ASMS: Mass Spectrometry Society Treasurer's Reports	1969-1970
12	62	ASMS Meeting - Atlanta	1971
5	14	ASMS Meeting - Board of Directors, Correspondence	1973-1974
5	24	ASMS Meeting - Dallas	1972
5	25	ASMS Meeting - San Francisco	1969-1971
6	2	ASMS Meetings	1976-1982
6	23	ASMS Membership Lists	1972-1973
5	11	ASMS Officers and Committee Chairman	1974-1975
6	24-26	ASMS: Participants at Mass Spectrometry Conferences	1957-1976
6	17	ASMS Phone Calls	1973-1974
6	27	ASMS Photographs – San Francisco (16 color photographs)	1973
6	6	ASMS Plenary Lectures	1973
6	12	ASMS Plenary Lectures	1973-1974
5	16	ASMS President's File	1974
5	17	ASMS President's File	1975
9	37	ASMS President's Working Procedure – F. H. Field	1972-1973
6	10-11	ASMS Program Expenses	1973
6	5	ASMS Session Chairmen	1973
6	7	ASMS Sheraton-Palace Hotel, San Francisco	1973
6	19	ASMS Sponsors	1972-1973
6	18	ASMS Sponsors	1974
5	9	ASMS Sponsors	1975
5	5	ASMS Sponsors	1976
6	13	ASMS Symposia	1973-1974
6	22	ASMS Vice-President of Programs	1972-1973
5	13	ASMS: Working Procedures – ASMS President, Re: Honig	1971-1972

Box	Folder	Title	Dates
5	28	American Society for Testing and Materials (ASTM) Committee E-14 on Mass Spectrometry	1960-1974
16	34	ASTM E-14	1956-1957
16	35	ASTM E-14	1960-1963
16	41	ASTM E-14	1967
16	39	ASTM E-14 Conference, Montreal	1964
16	37	ASTM E-14 Conference: First European Trip	1961
16	38	ASTM E-14 Meeting	1962
15	26	ASTM E-14 Meeting, Dallas	1968-1969
16	40	ASTM E-14 Meeting, Dallas	1966
15	9	ASTM E-14 Meeting, Pittsburg	1968
16	33	ASTM E-14 Meetings	1952-1959
16	36	ASTM E-14 Meetings	1960-1964
15	25	ASTM E-14 Subcommittee V	1968-1969
16	43	ASTM and Gordon Research Conference	1960
16	53	ATLAS Mass Spectrograph	1961
16	54	ATLAS Spark Source Spectrograph	1961-1962
2	49	Atmospheric Pollution	1970-1971
23	22	Atomic Weights and Isotope Abundances	1974-1975
29	10	Audiocassettes: Interviews with Lola Rice and Nellie Naylor (parts 1 and 2) (2 cassettes)	1984, undated
29	11	Audiocassettes: Interview with Nellie Naylor (parts 3-6) (2 cassettes)	undated
29	12	Audiocassettes: Interviews with Roy Dixon and Frank Spedding (2 cassettes)	1984-1985
29	13	Audiocassettes: Manhattan Project Reunion, Interview with Henry Gilman (2 cassettes)	1986
33	1	Audiotape: Chemistry Lecture and Recitation of Chemical Compounds	undated
3	32	American Water Works Association (AWWA)	1977
3	33	AWWA ERI (Energy Recovery Incorporated) Project	1976-1978
20	35	AWWA Project Expenditures	1977-1979

Box	Folder	Title	Dates
2	50	Beckman Instrument	1965
11	74	Beckman Mass Spectrometer Tube and Magnet	undated
3	57	Basic Energy Sciences (BES) Efforts Fiscal Years 1973, 1975, 1977	1977
3	48	BES-Funded Efforts	1977
4	26	BES Reports	1977
23	8	Bibliography on Nitrogen 15	1956
2	1	Biographical Information	1952-2013, undated
20	40	Biographical Sketch: Robert Conzemius	1987
20	41	Biographical Sketch: Gerald Flesch	1985
15	22	Biological Division Proposal	1968-1969
14	1	Birchwood Hills Map	undated
Map	Case	Blueprints and Diagrams	undated
11	37	Boron Minerals for 02 Isotope Studies	1959
3	58	Bournes - Electrical Connectors	1971-1972
12	56	Budget	1967-1970
9	2	Budget Calculations	1977
3	59	Budget Report	1968-1969
3	60	Budget Report	1970
14	38	Budgets and Travel Plans	1969-1974
NEG		Ca and H ₂ O negatives (15 4x5 negatives [114518-114532])	1951
12	3	Cadmium Chloride Equilibrium	1966
11	22	Calibration Curves for Recorder	undated
15	27	Carbon Black Problem	1967, undated
2	20	Chemical Abstracts Biography	1967-1983
20	12	Chemical Analysis	1975-1976
20	10	Chemical Analysis	1976-1977
20	11	Chemical Analysis	1977-1978
6	39	Chemical Physics	1976-1977

Box	Folder	Title	Dates
9	3	Chemical Physics: Equipment	1979
6	41	Chemical Physics: Summary Reports	1975-1976
9	18	Chemical Sciences Review	1979
9	19	Chemical Sciences Review	1980
9	20	Chemical Sciences Review	1981
3	64	Chemical Sciences Review	1983
3	67	Chemical Sciences Review	1986
9	17	Chemical Sciences Review - Biographical Sketches	1979
3	63	Chemical Sciences Review - Biographical Sketches	1982
3	65	Chemical Sciences Review - Biographical Sketches	1983
3	66	Chemical Sciences Review - Biographical Sketches	1984
3	68	Chemical Sciences Review - Biographical Sketches	1987
15	28	The Chemical Society Fellowship	1954-1969
15	29	Chemical Vignettes	1970
23	39	Chemistry Building Plans	1926
21	29	Chemistry Curriculum Committee	1978
2	44	Chemistry Department Advisory Committee	1973
20	26	Chemistry Department Bulletins	1972-1976
9	39	Chemistry Department Bulletins	1973-1974
20	25	Chemistry Department Committee Assignments	1975
15	4	Chemistry Department Committees	1967
25	23	Chemistry Department Faculty	1928-1995
2	10	Chemistry Department Farmhouse Talk	1983-1984
23	23	Chemistry Department History	undated
20	24	Chemistry Department Instruments and Facilities Committee	1974-1978
3	31	Chemistry Department Newsletter	undated
Map	Case	Chemistry Department Portrait	1925-1930 circa
23	5	Chemistry Department Report: <i>Self Study</i>	1991
20	33	Chemistry Department Reports	1974-1978

Box	Folder	Title	Dates
12	46	Chemistry Division Instrument Budget	1968-1969
4	34	Chemistry Division Program Review	1972
NEG		Chemistry Equipment Negatives (42 5x7 negatives [114533-114574])	undated
25	24	Chemistry Faculty	1986-1989
25	20	Chemistry Faculty and Alumni	1985-1990, undated
25	15	Chemistry Faculty Recognitions and Publications	1993-1994
3	3	Chemistry Faculty Reviews	1982
21	32	Chemistry Graduates Collected by Rachel Edgar (1872-1969) and H. J. Svec (1969-1985)	1872-1985
28	6	<i>Chemistry</i> Newsletter, Photographs (2 b/w photographs)	1912-1987
15	51	Chemistry Problems – Will Talbert	1969
11	21	Circuit Diagrams MS-I	undated
3	69	Coal Chemistry	1976
3	5	Coal Chemistry Project Ideas	1966-1975
20	52	Coal Research	undated
20	37	College Committees	1975
10	27	Colloids	1943
19	54	Combustion Initiation Project	1979, undated
10	26	Commencement Program	1950
23	24	Committee Meetings	1955-1963
9	26-27	Committee on Distinguished Professorships	1962-1972
14	29	Committees for Graduate Students	1965
20	44	Computer Program - Least Squares Original	1972
14	33	Computer Use for Class	undated
2	48	Conference on Analytical Chemistry in Nuclear Technology	1972
16	56	Consolidated Electrodynamics Corporation Mass Spectrograph	1960-1962
10	6	Consolidated Electrodynamics Corporation Mass Spectrometer Donation to ISU Chemistry Department	1959-1960

Box	Folder	Title	Dates
11	67	Consolidated Engineering Corporation 21-201	undated
11	66	Consolidated Engineering Corporation Micromanometer	1955
11	25	Constant Current Circuit	undated
21	35	Contaminants in Water	1973-1977, undated
23	34	Coover Lecture: Dr. Y. T. Lee Visit	1979
14	31	Counseling Graduate Students	1966
20	28	Courses: Analytical Chemistry	1979
12	33	Courses: Analytical Preliminary Exam, Chemistry 322L, 323L Exams	1978, undated
10	28	Courses: Bacteriology 631, 632, 633	1940
16	12	Courses: Chemistry 100 Freshman Seminar	1960
18	33	Courses: Chemistry 142 - Chapters 17 and 19	1975
18	32	Courses: Chemistry 142 - Chapters 18 and 20	undated
18	34	Courses: Chemistry 142 - Chapters 21 and 22	undated
18	35	Courses: Chemistry 142 - Chapters 25 and 27	undated
18	36	Courses: Chemistry 142 - Chapters 28 and 29	undated
18	37	Courses: Chemistry 142 - Chapters 29 and 30	1975
18	38	Courses: Chemistry 142 - Class Schedule	1975
18	31	Courses: Chemistry 142 - Exams	1975
18	40	Courses: Chemistry 163	1983
19	1	Courses: Chemistry 163 Notes	undated
3	2	Courses: Chemistry 221X Test and Quiz	1973
16	13	Courses: Chemistry 320	undated
15	5	Courses: Chemistry 320 Course Credits Issue	1966
12	13	Courses: Chemistry 320 Exam, Spring	1968
14	46	Courses: Chemistry 320 Exam, Spring	1969
12	9	Courses: Chemistry 320 Laboratory Test, Winter	1967-1968
23	12	Courses: Chemistry 320 Manual Information	1953-1954, undated
15	13	Courses: Chemistry 320, 327	1967-1968

Box	Folder	Title	Dates
10	31	Courses: Chemistry 320, 327 – Form letter for "Incomplete" grades	undated
10	32-33	Courses: Chemistry 320, 327 Exams	1954-1969
12	7	Courses: Chemistry 320, 327 Exams	1954-1964
12	11	Courses: Chemistry 320, 327 Exams	1967-1969
12	42	Courses: Chemistry 320, 327 Exams	undated
12	43	Courses: Chemistry 320, 327 Exams	undated
12	18	Courses: Chemistry 320, 327 Exams, Winter	1970-1971
12	10	Courses: Chemistry 320, 327 Experiments, Winter	1967-1968
21	36	Courses: Chemistry 320, 327 Final Exams	1962
14	32	Courses: Chemistry 320, 327 Staff Meeting	undated
18	27	Courses: Chemistry 322L	1979-1980
12	35	Courses: Chemistry 322L Exam, Winter	1979
19	5	Courses: Chemistry 322L Schedule	1980-1981
19	8	Courses: Chemistry 322L, 323L	1978
12	37	Courses: Chemistry 322L, 325L, 326L Exams	1979, undated
12	39	Courses: Chemistry 322L, 326L Exams	1981
12	29	Courses: Chemistry 322L, 326L Exams, Winter	1977
19	11	Courses: Chemistry 322L, 326L Schedules	1978-1979
12	21	Courses: Chemistry 322L, 327 Exams, Winter	1972
12	23	Courses: Chemistry 322L, 327 Exams, Winter	1973
15	8	Courses: Chemistry 322L, 327 Exams, Winter	1973
12	27	Courses: Chemistry 322L, 327 Final Exams	1974-1975
12	26	Courses: Chemistry 323 Final Exam, Spring	1974
19	16	Courses: Chemistry 323 Notes - Solid State	undated
2	29	Courses: Chemistry 323L Exam	undated
12	22	Courses: Chemistry 323L Exam, Spring	1972
12	24	Courses: Chemistry 323L Exam, Spring	1973
12	30	Courses: Chemistry 323L Exam, Spring	1977
12	40	Courses: Chemistry 325L Exam	1982

Box	Folder	Title	Dates
12	28	Courses: Chemistry 325L Exam, Fall	1976
12	31	Courses: Chemistry 325L Exam, Fall	1977-1978
12	34	Courses: Chemistry 325L Exam, Fall	1978-1979
12	38	Courses: Chemistry 325L Exam, Fall	1980
19	7	Courses: Chemistry 325L Schedule	1978
19	9	Courses: Chemistry 325L Schedule	1979
19	10	Courses: Chemistry 325L Schedule	1980
18	24	Courses: Chemistry 326L	1977-1978
18	25	Courses: Chemistry 326L	1979-1980
12	36	Courses: Chemistry 326L Exam, Winter	1979
19	6	Courses: Chemistry 326L Schedule	1980-1981
12	17	Courses: Chemistry 327 Exam, Fall	1970-1971
12	20	Courses: Chemistry 327 Exam, Fall	1972
12	19	Courses: Chemistry 327 Exams	1971-1972
12	25	Courses: Chemistry 327 Final Exam, Fall	1973-1974
12	15	Courses: Chemistry 327, 320 Exams	1969-1971
10	30	Courses: Chemistry 518	1941
3	1	Courses: Chemistry Course for Students in Humanities, Business, and Education	1971
26	16	Courses: Chemistry Course Notes	undated
23	36	Courses: Chemistry Glass Blowing Course	undated
14	9	Courses: Chemistry Notes	undated
20	27	Courses: Chemistry Undergraduate Brochure	1978
10	16	Courses: Course Notebook	1944
14	47	Courses: Exam Question	undated
12	12	Courses: Exam Questions	1967-1972, undated
15	11	Courses: Exam Questions	1968, undated
12	14	Courses: Exam Questions, Winter	1969
14	45	Courses: Experimental Physical Chemistry	Undated

Box	Folder	Title	Dates
15	30	Courses: Graduate Program in Physical Chemistry	1969-1970
16	9	Courses: Inorganic and Analytical Chemistry Preliminary Exams	1948
10	5	Courses: Personal Coursework - Chemical Bond Problems, Notes, Quizzes	1946-1947
10	4	Courses: Personal Coursework - Chemical Kinetics	1947-1948
10	9-10	Courses: Personal Coursework - Inorganic Chemistry - 605, 606, 607	1941-1942
10	21	Courses: Personal Coursework - Papers	undated
16	14	Courses: Physical and Analytical Chemistry Qualifying Exams	1952
12	8	Courses: Physical Chemistry Exam, Fall	1966
15	1	Courses: Physical Chemistry Lab	1964-1967
15	15	Courses: Physical Chemistry Lab	1969-1970
18	22	Courses: Physical Chemistry Lab	1971-1972
18	23	Courses: Physical Chemistry Lab	1972-1973
18	26	Courses: Physical Chemistry Lab	1975-1977
18	28	Courses: Physical Chemistry Lab	1977-1978
18	29	Courses: Physical Chemistry Lab	1978-1979
19	2	Courses: Physical Chemistry Lab	1979-1980
19	3	Courses: Physical Chemistry Lab	1980-1981
19	4	Courses: Physical Chemistry Lab	1981-1982
15	55	Courses: Physical Chemistry Lab Final Exam	1952
15	14	Courses: Physical Chemistry Lab Lectures Outlines	1966-1967, undated
20	49	Courses: Physical Chemistry Lab Student Manual (original)	1973
15	10	Courses: Physical Chemistry Lab Teaching	1968, undated
19	15	Courses: Physical Chemistry Lecture Notes - Chemical Kinetics	1974
19	12	Courses: Physical Chemistry Lecture Notes - Equilibria	undated

Box	Folder	Title	Dates
19	23	Courses: Physical Chemistry Lecture Notes - Nuclear and Radio Chemistry	undated
12	41	Courses: Preliminary Exam Questions	undated
14	41	Courses: Preliminary Questions, Physical Chemistry	1965-1970
15	43	Courses: Qualifying Exam for Physical Chemistry	1970
12	16	Courses: Qualifying Exam Questions	1970, undated
14	35	Courses: Winter Quarter Room Schedules	1966-1967
14	39	Curriculum Committee	1966-1967
14	20	Curriculum Committee	1968
15	45	Curriculum Committee - College of Sciences and Humanities, Minutes	1969-1970
14	43	Curriculum Issues	1967
9	16	Division of Biomedical and Environmental Research (DBER)	1978-1982
20	17	DBER Information	1973-1977
4	19	DBER: Inventory Forms	1976
9	14-15	DBER Program Planning Guidance	1974-1979
20	9	DBER Projects	1974-1977
20	18	DBER Projects	1980
10	20	Debye-Hackel Theory	1946
3	70	Dempster Mass Spectograph	1977
25	26	"Departmental Diary" (a summary of Chemistry Department and Ames Laboratory activity)	1974-1975
15	57	Deuterium as a Tracer	undated
23	16	Diehl, Harvey C.: Biography (see negative 114620)	1961-1978, undated
10	26	Different Equations - Murray	1940
9	4	Directors, Direct Fund Reports	1978
28	8	Distinguished Professors Dinner (1 b/w photograph)	1988
25	14	Distinguished Professors Meeting with President Eaton	1988
26	12	Department of Energy (DOE) Chemical Sciences Review, Neutral Fragments Presentation	1946-1985

Box	Folder	Title	Dates
19	53	DOE Organization Chart	1979
9	21	DOE Review	1981
3	62	DOE Review for Chemical Services	1982
5	1	DOE Solar Photochemistry Research Conference	1982
25	13	Eaton, Gordon	1985-1987
20	42	Eaton Report	1986
16	1	Electrical Circuits	undated
15	56	Electrical Heating Elements and the Mariotte Bottle	undated
10	13	Electricity	undated
16	57	Electrode Manipulator	1962, undated
11	12	Electromagnetic Separation of Isotopes	undated
12	49	Electron Multiplier	1964
5	4	Electrostatic Analyzer	1964-1968
11	34	Elements: Aluminum	1956
11	35	Elements: Carbonyls	1965
11	45	Elements: Chromium	1955-1959
11	52	Elements: Columbium/Niobium	undated
11	47	Elements: Lithium	1957
11	33	Elements: Molybdenum	1956-1964
11	49	Elements: Molybdenum	undated
11	55	Elements: Osmium	undated
11	38	Elements: Rhenium	1957-1958
11	53	Elements: Rhodium	undated
11	54	Elements: Tantalum	undated
11	42	Elements: Tin	1963-1965
11	43	Elements: Titanium	1963-1966
11	44	Elements: Tungsten	1958-1965
11	50	Elements: Tungsten	undated
11	46	Elements: Vanadium	1958-1969
11	51	Elements: Vanadium	undated

Box	Folder	Title	Dates
20	34	Energy and Mineral Resources Research Institute (EMRRI): Coal Chemistry Proposals	1974-1975, undated
20	36	EMRRI Coal Project	undated
21	14	EMRRI Research Proposal for Water Quality Survey	undated
2	12	Enke, Chris, Professor	1982
4	3	Environment and Safety Project	1977
4	30	Environmental Health and Assessments - Organic Compounds	undated
10	25	Enzyme Chemistry	1943
3	14	Equipment for Physical Chemistry Lab	1976
9	5	Equipment Orders for 1978	1977-1978
3	13	Environmental Protection Agency (EPA)	1971-1973
4	4	EPA Pass Thru Projects	1976-1980
20	45	EPA Research and Development Applications	1971
4	5	Energy Research and Development Administration (ERDA) Science Information Exchange	1975-1977
4	6	ERDA Utilization Module Radiaton and Photo Chemistry	1976
12	58	European Trip	1967
9	22	EV (refers to the DOE Office of Environment) Lab and Field Representative Meeting	1980
4	2	EV Quarterly Reports	1979
3	6	Faculty and Alumni Recognition Committee	1976
2	51	Faculty Bowling League: Chemistry-Metallurgy	1969-1971
12	61	Faculty Bowling League: Chemistry-Metallurgy Team	1967-1968
15	34	Faculty Bowling League: Chemistry-Metallurgy Team	1969-1971
2	21	Faculty Improvement Leave Application (1 b/w photograph)	1974-1979
21	2	Faculty Obituaries	1985-1994
16	45	Films	1957-1963
20	55	Finnegan 4000 GC/MS	1977
11	36	Fluorides	1964-1965
14	53	Foreign Language Problem	1967-1968

Box	Folder	Title	Dates
21	31	Foreign Travel Report	1961
12	50	Foreign Travel Reports	1964-1967
3	71	Fossil Energy Advisory Committee	1978-1979
3	72	Fossil Energy Projects	1982
20	53	Fossil Fuel	undated
20	29	Full Professors' Meeting	1965-1977
20	46	Fulvic Acid Project	1975
3	73	Fundamental Interactions	1978
19	49	Fundamental Interactions	1978-1979
9	6-7	Fundamental Interactions	1978-1980
26	2	Fundamental Interactions	1981-1982
19	55	Fundamental Interactions Equipment Requests	1978-1980
19	47	Fundamental Interactions Equipment Requests	1984-1985
19	51	Fundamental Interactions Group Budgets	1979-1980
19	43	Fundamental Interactions Group Budgets	1981-1982
19	44	Fundamental Interactions Group Budgets	1981-1982
19	42	Fundamental Interactions Group Budgets	1983-1984
19	41	Fundamental Interactions Group Budgets	1984-1985
19	40	Fundamental Interactions Group Budgets	1986-1988
6	40	Fundamental Interactions, Radiation Sciences, Chemical Physics	1978
2	3	Fundamental Interactions: Summary of Research Project	1987
11	57	Gas Purification	undated
11	31	Gas Purification Project GP-1	1926-1951
11	7	Gas Chromatography/Mass Spectrometry (GC/MS) Combinations	undated
11	72	General Electric GE Analytical Mass Spectrometer	undated
23	37	GE Ion Source Mass Spectrometer Repair and Cleaning	1959-1960
11	75	GE Mass Spectrometer Collector Assembly	undated
14	48	General Sciences	1965-1966
11	48	General Vapor Pressure Charts	undated

Box	Folder	Title	Dates
21	27	Gilman Hall	1974
21	3	Gilman, Henry	1974-1988
23	17	Gilman, Henry: Priestly Medal	1976
3	15	Gilman Renovation Committee	1980
21	4	Goetz, Charles and Wayne Keller	1985
3	16	Good Writing	1971
16	23	Gordon Research Conference: Isotopes	1954-1958
16	44	Gordon Research Conferences	1962
4	7	Governor's Science Council	1976
11	61	Gas Purifier/Gas Purification (GP) Possible Future Work	undated
11	59	GP Spectrographic Analysis Reports	1953
11	62	GP Tabulated Data	undated
11	60	GP Test Questions and Answers	undated
11	69	GP-1 Flow Meter Calibration Curves	undated
11	64	GP-1 Literature Search Gas Purification	1953
11	63	GP-1 Original Time Records for Runs	1952-1953
3	11	Graduate College Committee	1971-1978
14	44	Graduate Committee	1962-1966
15	16	Graduate Student Survey	1978
15	31	Group Operating Funds	1969-1970
15	33	Group Seminar	1969
20	38	Group Seminar: Ion Source Chemistry	1976
21	22	<i>A Handbook on Mass Spectroscopy</i>	1954
21	8	Hansen, Robert	1988
20	47	Health and Safety Information	1973
15	32	High Resolution Mass Spectrometer	1967-1970
14	52	High School Talks on Chemistry	1965-1967
4	8	Highlight Reports	1979-1980
23	18	Historic Mass Spectrometry Instruments	1986
12	55	Historical Materials	1962-1971, undated

Box	Folder	Title	Dates
25	34	<i>History of the Iowa State Chemistry Department: 1880s Chemistry Experiments Notes (photocopies)</i>	1883-1884, undated
25	29	<i>History of the Iowa State Chemistry Department Drafts</i>	1985, undated
25	27	<i>History of the Iowa State Chemistry Department Drafts, Abridged</i>	1990-1991
3	4	<i>History of the Iowa State Chemistry Department Final Draft</i>	undated
25	32	<i>History of the Iowa State Chemistry Department: Foote, A. E., MD</i>	1955-1977, undated
25	28	<i>History of the Iowa State Chemistry Department: Iowa State University History</i>	1865-1988, undated
20	71	<i>History of the Iowa State Chemistry Department Manuscript</i>	1996
2	9	<i>History of the Iowa State Chemistry Department Manuscript</i>	1998
25	30-31	<i>History of the Iowa State Chemistry Department: Material for the Publication (2 b/w photographs in folder 30)</i>	undated
25	33	<i>History of the Iowa State Chemistry Department: Pope, Thomas E.</i>	1920, undated
26	1	<i>History of the Iowa State Chemistry Department: Talk for SCUM (Society of Chemistry Undergraduate Majors) and Other Materials Relating to the Publication (see negatives 114642-114643 [35mm strips])</i>	1982-1984
14	34	Honors Program Newsletter	1966
4	9	Iceberg Analysis	1977
21	25	Iceberg Conference (4 color photographs)	1978
4	11-12	Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)	1978-1981
4	13-15	ICP-MS Development	1975-1979
12	51	International Journal of Mass Spectrometry and Ion Physics (IJMSIP)	1968
19	32	IJMSIP	1972-1973
6	29	IJMSIP Desk Editor	1976-1985

Box	Folder	Title	Dates
6	28	IJMSIP Editor's File	1975, undated
6	32	IJMSIP Editorial Comment	1985
28	2	IJSMIP: Honor Issue for Harry J. Svec	1987-1989
6	34	IJMSIP Manuscript Information	undated
6	30	IJMSIP Manuscripts Received, #1-633	1967-1971
6	31	IJMSIP Manuscripts Received, #634-1048	1972-1986
6	33	IJMSIP: Recommended Nomenclature for Authors	1976-1981
23	10	IJMSIP, vol. 74, no. 1	1986
4	10	Immunosuppression Preproposal to EPA	1979
21	20	Importance of Good Writing	1971
2	35	Indirect Cost Rates for Proposals	1975
11	70	Inlet Head CEC 21-103C	1965
4	16	Institutional Plan 1981-1986	1980
15	23	Instrument Group Evaluation/Advisory Committee	1969-1971
3	17	Instrument Services Committee	1967-1977
4	18	Instrumentation Services Advisory Committee	1967-1972
3	18	Interdisciplinary Studies Committee	1972
15	36	International Mass Spectrometry Conference	1970
10	2-3	International Mass Spectrometry Conference	1973
5	8	International Mass Spectrometry Conference	1976
14	26	Investigation of Explosion and Fire - Cambridge, Massachussetts	1965
3	19	Invitations to Speak	1975
11	9	Ion Probes	undated
11	19	Ion Sources, Detection of Ions, Sources of Ions	1972-1981
11	14	Ionization Potential: Information About Pete Sivgals's Thesis	1966-1967
16	47	Iowa Academy of Science	1963
4	20	Iowa Academy of Science	1976
12	48	Iowa Academy of Science Membership List and Committee Reports	1967

Box	Folder	Title	Dates
9	10	Iowa History Article	undated
28	9	Iowa State Chemistry-related Publications	1910-1987, undated
3	20	Iowa State University Computer Business	1981
20	72	Iowa State University History	undated
10	23	Iridium Compounds	1949
11	32	Isotope Dilution Analysis for Nitrogen	1957
15	35	Isotope Standards	1969
3	23	Iowa State Water Resources Research Institute (ISWRRI)	1972
3	22	ISWRRI	1973
3	21	ISWRRI Completion Report	1971-1973
3	24	ISWRRI Correspondence	1971-1972
3	7	International Union of Pure and Applied Chemistry (IUPAC) Commission on Atomic Weights	1967-1975
19	39	IUPAC Atomic Weight Committee	1973
21	23	IUPAC Information Bulletin	1976
28	3	IUPAC Information Bulletin #32: 50 Years of IUPAC	1968
15	38	IUPAC: "Atomic Weights of the Elements"	1972
18	30	John Carroll University Centennial Medal Award, February 27, 1986	1986
14	37	Jokes for After Dinner Talks	1971-1986
23	20	Journal Articles	1965-1973
14	21	Journal Articles and European Trip	1967, undated
12	53	Journal of the American Chemical Society	1959
18	3	Landmark Papers in Mass Spectrometry (1 b/w photograph)	1955-1968
18	12	Landmark Papers in Mass Spectrometry: Applications	1954
18	18	Landmark Papers in Mass Spectrometry: Free Radicals	1953-1956
18	16	Landmark Papers in Mass Spectrometry: Gas Analysis	1942
18	6	Landmark Papers in Mass Spectrometry: Ion Detection	1926-1954

Box	Folder	Title	Dates
18	4	Landmark Papers in Mass Spectrometry: Ion Optics (4 b/w photographs)	1898-1970
18	5	Landmark Papers in Mass Spectrometry: Ion Sources	1935-1953, undated
18	9	Landmark Papers in Mass Spectrometry: Ionization of Molecules	1913-1951
18	14	Landmark Papers in Mass Spectrometry: Isotopic Abundances	1936-1950
18	15	Landmark Papers in Mass Spectrometry: Isotopic Masses	1956
18	17	Landmark Papers in Mass Spectrometry: Metastable Ions	1945-1969
18	11	Landmark Papers in Mass Spectrometry: Mono Energetic Electrons	1954
18	7	Landmark Papers in Mass Spectrometry: Negative Ions	1956
18	21	Landmark Papers in Mass Spectrometry: New Mass Spectrometer	1935-1955
18	20	Landmark Papers in Mass Spectrometry: New Mass Spectrometers	1935-1970
18	19	Landmark Papers in Mass Spectrometry: Organic Structures	1954-1960
18	2	Landmark Papers in Mass Spectrometry: Papers Included (1 b/w photograph)	1886-1985
18	13	Landmark Papers in Mass Spectrometry: Photograph of Richard Herzog (1 b/w photograph)	undated
18	1	Landmark Papers in Mass Spectrometry: References (1 b/w photograph)	1968-1982, undated
18	8	Landmark Papers in Mass Spectrometry: Sample Introduction	1945
18	10	Landmark Papers in Mass Spectrometry: Vacuum Gauges	1940
31	16	Lantern Slides: Absolute $^6\text{Li}/^7\text{Li}$ Ratios	undated
31	15	Lantern Slides: Absolute Abundances of Chromium Isotopes	undated
31	17	Lantern Slides: Absolute Ratio in Silver	undated
31	10	Lantern Slides: Abundance of Vanadium Isotopes	undated

Box	Folder	Title	Dates
31	11	Lantern Slides: Abundance Ratios for Reference Vanadium	undated
31	6	Lantern Slides: Abundance Ratios for Vanadium	undated
31	2	Lantern Slides: Analytical Chemistry	undated
31	1	Lantern Slides: Analytical Chemistry (Routine and Research)	undated
31	8	Lantern Slides: Calculation of Absolute Ration for $^{50}\text{V}/^{51}\text{V}$	undated
31	14	Lantern Slides: Chemistry Calculations	undated
31	7	Lantern Slides: Distribution of Sulfur Isotopes in Nature	undated
31	4	Lantern Slides: Example of Ratio Comparison	undated
31	13	Lantern Slides: Instrument Stability	undated
31	9	Lantern Slides: Isotope Abundance of Chromite Ores	undated
31	12	Lantern Slides: Isotope Assay of Chromyl Fluoride	undated
31	18	Lantern Slides: Isotopic Composition of Thorium, Uranium, and Common Leads	undated
32	7	Lantern Slides: Neutral Fragments Paper	undated
32	14	Lantern Slides: Neutral Fragments Paper: Benzene Kinetic Energy Spectrum	undated
32	11	Lantern Slides: Neutral Fragments Paper: C_2H^0_2 from Propane	undated
32	17	Lantern Slides: Neutral Fragments Paper: CH^+_4 Ion Current from Propane	undated
32	16	Lantern Slides: Neutral Fragments Paper: CH^0_3 from Propane	undated
32	12	Lantern Slides: Neutral Fragments Paper: CH^0_4 From Propane	undated
32	15	Lantern Slides: Neutral Fragments Paper: Curve of CH^0_3 from C_3H_8	undated
32	10	Lantern Slides: Neutral Fragments Paper: Curves for CH^+_3 from C_3H_8	undated
32	9	Lantern Slides: Neutral Fragments Paper: Diagramatic Layout of Mass Spectrometer	undated
32	20	Lantern Slides: Neutral Fragments Paper: Double Fillament Assembly	undated

Box	Folder	Title	Dates
32	8	Lantern Slides: Neutral Fragments Paper: Ionization Efficiency Curve for Air	undated
32	13	Lantern Slides: Neutral Fragments Paper: Ionization Efficiency Curve for $^o\text{CH}_3$ from C_3H_8	undated
32	18	Lantern Slides: Neutral Fragments Paper: Positive-Negative Mass Spectrometer	undated
32	19	Lantern Slides: Neutral Fragments Paper: Representative Ion Source with Beam Deflect Electrodes	undated
31	5	Lantern Slides: Nitrogen Ratios	undated
31	3	Lantern Slides: Periodic Table of the Elements	undated
31	19-23	Lantern Slides: Positive-Negative Mass Spectrometer Slides for Paper Presented at E-74 Annual Meeting in Dallas, Texas May 26, 1966, Berlin Conference September 1967, and Lectures in Europe September-October 1967	1966 circa
32	1-6	Lantern Slides: Positive-Negative Mass Spectrometer Slides for Paper Presented at E-74 Annual Meeting in Dallas, Texas May 26, 1966, Berlin Conference September 1967, and Lectures in Europe September-October 1967	1966 circa
32	21	Lantern Slides: UH_3 Structure	undated
15	6	Least Squares Computer Program	1968
19	18	Lecture: Chemical Literature	1980
15	12	Lecture Given to Physical Chemistry Graduate Students	undated
19	24	Lecture: High Vacuum Lectures (5 b/w photographs)	1981-1982
16	19	Lecture: Introduction to Mass Spectrometry	undated
16	3	Lecture: Kinetics of Gas-Metal Reactions	undated
26	10	Lecture: Laser Mass Spectrometry (9 b/w slides, 52 color slides)	1980-1983
16	20	Lecture on Mass Spectrometry	undated
26	11	Lecture: Neutral Fragment Mass Spectrometry (42 color slides)	1973-1981
11	16	Lecture Notes on Mass Spectrometers	1954-1967, undated
19	34	Lecture: Organics in Water, Alberta, Canada	1975

Box	Folder	Title	Dates
16	4	Lecture: Separation of Isotopes	undated
26	7	Lecture Slides (18 b/w slides, 100 color slides)	undated
26	9	Lecture: Spark Source Mass Spectrometry (15 color slides, 4 b/w slides)	1953-1980
26	8	Lecture: Trace Organics in Drinking Water, Air (4 color slides)	1975, undated
12	57	Lecture Trips	1970-1971
25	22	Lectures	1985-1987
3	25	Library Material	1966-1973
11	27	Lithium Halide V. P. Literature	undated
3	26	Lithium Isotope Standard	1974
15	37	Lithium Problem	1966-1969
21	9	Manhattan Project Reunion	1984-1996
4	21	Manhattan Project Reunion and Renaming of Metallurgy Building as Wilhelm Hall (4 b/w photographs, 1 color photograph)	1985
11	39	Marine Animal Problem	1961-1962
11	24	Mass Spectra Data	undated
11	56	Mass Spectra: PF ₃	1965
16	59	Mass Spectrograms from JEOL Instrument	undated
16	46	Mass Spectrograph	1961
12	5	Mass Spectrometer Equipment	1954-1960
19	20	Mass Spectrometer Experiment	1978-1982
23	27	Mass Spectrometry	1946-1955
11	4	Mass Spectrometry	1981-1982
23	31	Mass Spectrometry Analysis	1959-1963
16	22	Mass Spectrometry Article and Enlarged Copies of Circuits	1947
3	28	Mass Spectrometry Bibliography	1969
15	39	Mass Spectrometry Conference Programs	1969
9	24-25	Mass Spectrometry Conferences: Remarks and Notes	1974-1976
19	26	Mass Spectrometry Course	1973-1974

Box	Folder	Title	Dates
19	25	Mass Spectrometry Course	1974-1975
11	20	Mass Spectrometry Course: Aberrations	undated
11	8	Mass Spectrometry Course: Components	undated
11	17	Mass Spectrometry Course: Forming of Fields	undated
19	27	Mass Spectrometry Course: Historical Review and Outline	undated
11	18	Mass Spectrometry Course: Ion Optics	undated
11	6	Mass Spectrometry Course: Isotopic Mass, Abundances	1981
11	2	Mass Spectrometry Course: Reference Material	1979-1981
11	3	Mass Spectrometry Lectures - Fundamentals	undated
11	13	Mass Spectrometry Literature	1981
11	15	Mass Spectrometry Outline	undated
4	22	Mass Spectrometry Services	1980
10	19	Math Review	1945
9	8	May 1979 Review - Material and Chemical Sciences	1979
3	30	Meetings about Mass Spectrometry	1973-1974
11	30	Metal-Water Vapor Reaction Data	undated
11	23	Micromanometer Calibration	undated
3	29	Mid-America State Universities Association (MASUA) Lectures	1979-1980
11	5	Modern Mass Spectrometers	1981
4	32	Molecular Science Review	1975
6	38	Molecular Science Review	1975-1978
4	24	Molecular Science Review	1977
11	28	MS (Mass Spectrometer) Tube Check and Replacement Data	1953
11	71	MS-1	undated
11	73	MS-2 Mass Spectrometer Circuit Diagrams	undated
16	58	MS7 Mass Spectrometer	1960-1961
15	40	Music Council	1970, undated
3	35	Music Council	1969-1973

Box	Folder	Title	Dates
3	34	Music Council	1972-1973
14	11	Music Council Concert Ushering	1958-1963
14	12	Music Council: Ushers for 1965-1966 Season	1965-1966
16	48	Nuclide Analysis Associates (NAA)	1961-1964
16	49	NAA	1961-1965
16	50	NAA Queries	1964
16	51	NAA, Consultations with	1963-1964
16	52	NAA: GRAF 2.2 Mass Spectrograph	1964-1965
16	55	National Academy of Sciences (NAS): "A Handbook on Mass Spectroscopy"	1954
19	35	Neutral Fragment Studies: Ideas	1977
11	10	Neutral Fragments	undated
12	1	<i>The New Yorker</i> - Story on Hiroshima Survivors, August 31, 1946	1946
25	17	News clipping: Article on Harley Wilhelm and the Manhattan Project	1992
2	11	News clippings	1967-2006
12	2	News clippings: Poison Water and CEC Mass Spectrometer Donation	1960-1978
21	24	Newsletter: <i>Chemistry Connection</i>	1995
4	28	Nitrogen Gas Standard	1976-1977
11	65	Nitrogen Mass Spectrometry	1956
11	29	Nitrogen Tank Analyses	1953
23	15	Nobel Prize for Chemistry	1966
9	42	Nomination for Ng: Alfred P. Sloan Fellowship	1979-1982
9	44	Nomination for Ng: Camille and Henry Dreyfus Teacher-Scholar Grant	1982
9	43	Nomination for Ruedenberg: Peter Debye Award	1982-1989
4	29	Non-Faculty Scientific and Professional Advisory Committee	1977
23	40	North Atlantic Treaty Organization (NATO) International Summer Course on Mass Spectrometry, Glasgow University, Conference in Paris	1964

Box	Folder	Title	Dates
29	9	Notebook	1980, undated
22	15	Notebook: Chemistry 521 - Thermodynamics	1946
22	16	Notebook: Chemistry 625 - Theory of the Chemical Bond	1946
22	13	Notebook: Physics 461 - Chemical Physics	1946
22	14	Notebook: Physics 462 - Chemical Physics II	1947
22	17	Notebook: Theory of the Chemical Bond II	1947
19	21	Notes: Calorimetry	undated
12	6	Notes, Diagrams, and Hydrides	1945, undated
19	22	Notes: Gas Analysis by Mass Spectrometry	undated
19	17	Notes: High Vacuum - Basic Principles	undated
19	13	Notes: Second Law of Thermodynamics	undated
26	6	Notes on Slides for a Presentation	undated
19	14	Notes: Surface Chemistry, Colloids, Polymers	undated
16	7	Notes on Vacuum	undated
20	50	Notes: Vacuum Technique	undated
21	13	Notes: Vacuum Techniques	undated
2	16	National Science Foundation (NSF): Ad Hoc Advisory Panel	1978
2	14-15	NSF: Background Material for 1978 NSF Proposal	1978
20	22	NSF Budget	1976-1979
20	20	NSF Budget Statements	1976
2	23	NSF: Final Summary Report for First NSF Water Proposal	1976
2	24	NSF General Information	1982
2	18	NSF Grant	1980-1981
2	31	NSF Grant Contracts	1972-1976
10	1	NSF Grant: Organic Pollutants in Water	1976-1978
2	36	NSF Grant Paperwork	1975
14	42	NSF Information	1964-1965
20	19	NSF Information	1972-1977

Box	Folder	Title	Dates
2	22	NSF Instructional Equipment Grant Proposal	1972
15	7	NSF Instrument Proposal	1967-1968
2	27	NSF Organic Pollutants in Air Proposal	1973
2	42	NSF Progress Report and Request for Continuing Support for Project No. MPS75-21502	1977-1978
19	56	NSF Proposal	1978-1979
20	23	NSF Proposal	1978
2	32	NSF Proposals: Deconvolution-Convolution	1971
2	33	NSF Proposals: Deep Sea Core Drillings	1974
2	37	NSF Proposals: Ion Source Reactions	1972
2	34	NSF Proposals: Laser-Arc-Mass Spectrometer Multiprobe	1974
2	17	NSF Proposals: Neutrals Proposal	1976
2	19	NSF Proposals: Organic Solutes in Potable and Other Water	1979-1981
2	39	NSF Proposals: Original Copy Deconvolution-Convolution	1972
2	38	NSF Proposals: Request for INCOS Data	1976-1977
21	19	NSF Request for Research Grant: Organic Pollutants in Air	1973
20	21	NSF: Ruedenberg's Proposal	1976
14	40	NSF Summer Research Participation Program	1965
16	16	Nuclear Metallurgy School, Summer 1957	1957
23	1	Oak Ridge National Laboratory (ORNL)/DOE Conference on Analytical Chemistry (14 color slides, 4 b/w slides)	1983
20	14	Office of Health and Environmental Research (OHER)	1979
12	59	On-Line Mass Spectrometer	1965-1967, undated
4	39	Organic Pollutants in Water for <i>Highlights</i>	1975-1976
2	26	Organics in Air	1974
2	25	Organics in the Atmosphere	undated
19	38	Organics in Water	1974-1976
2	40-41	Organics in Water: Reports	1974-1976

Box	Folder	Title	Dates
16	6	Outlines of Articles on Mass Spectrometry	undated
14	51	Outside Projects - Greg Junk	1970
23	33	Oxford Meeting on Mass Spectrometry	1961
4	38	Ozonation	1978
16	2	Paper on Calcium and Water	1951
14	22	Paper Developed for Reference	undated
23	43	Paper on Microwave Spectroscopy - draft	undated
20	62	Paper on Neutral Fragments (1 b/w photograph)	1962-1966
25	3	Papers	1979-1985
19	57	Papers: Ruedenberg, Klaus	1976-1978, undated
23	19	Perchloric Acid	1978-1979
3	39	Perkin Elmer 270 Instrument	1970-1972
21	30	Photograph: Harvey Diehl, taken in March 1973 by H. J. Svec (1 color photograph)	1973
9	35	Photograph of Harry Svec (1 b/w photograph, see negative 114516)	undated
21	26	Photographs: Ames Laboratory and Chemistry Department (17 b/w photographs, 16 color photographs, see negatives 114616-114618 [35mm strips], 114601-114615 [120mm strips])	1960-1971, undated
29	6	Photographs: Ames Laboratory or Chemistry Department (6 color photographs)	undated
26	17	Photographs: ASMS (5 b/w photographs, 1 color photograph)	1976-1977, undated
20	70	Photographs: Chemistry Department (13 b/w photographs, 1 color photograph, see negatives 106489-106517 [4x5])	1913-1997, undated
20	69	Photographs: Chemistry Department (17 b/w photos, 2 color photos)	1959-1967
29	8	Photographs: Chemistry Department (12 b/w photos)	undated
29	7	Photographs: Chemistry Equipment (24 color photos, see negatives 114620 [120mm strip] and 114575-114586 [120mm strips])	1969, undated

Box	Folder	Title	Dates
10	17	Photographs: Chemistry Equipment (51 b/w photographs)	undated
19	36	Photographs of Harry J. Svec, Book Review, and Thank You Note (10 b/w photographs, see negative 114619)	1973-1977
3	40	Physical Chemistry	1977
21	39	<i>Physical Chemistry Experiments</i>	1978
14	36	<i>Physical Chemistry Experiments</i> : Copyright Certificate	1967
21	40	<i>Physical Chemistry Experiments</i> : Documents Found with the Publication	1971-1978, undated
3	36	<i>Physical Chemistry Experiments</i> : Drafts	undated
15	41	<i>Physical Chemistry Experiments</i> : Mogul, Phil	1970, undated
26	15	<i>Physical Chemistry Experiments</i> : Revised and Expanded Edition	1966
26	19	<i>Physical Chemistry Experiments</i> : Revised Edition	1969
26	20	<i>Physical Chemistry Experiments</i> : Revised Edition	1972
20	32	Physical Chemistry Faculty	1975-1980
3	37	Physical Chemistry Teaching File	1970-1973
10	18	Platinum Metals	undated
4	40	Pompano Beach Project	1977-1978
23	25	Positive-Negative Ion Mass Spectrometer	1962, undated
11	41	Positive-Negative Mass Spectrometer	1962
26	13	Presentation on the History of Mass Spectrometry at the Rocky Mountain Conference, Denver, August 12, 1980	1948-1984, undated
NEG		Presentations: Slide Negatives (20 35mm strips [114463-114479, 114509-114511])	undated
NEG		Presentations: Slide Negatives for Dow Chemical Talk (14 35mm strips [114495-114508])	1969
NEG		Presentations: Slide Negatives for Spring Review (6 35mm strips [114512-114517])	undated
2	2	Professional Information (8 b/w photographs)	1967-1987
3	38	Programmed Data Processor (PDP) Computer	1971-1972

Box	Folder	Title	Dates
23	28	Project Information and "Methods for Purifying the Inert Gases"	1931-1951
20	61	Project Reports	1989
21	10	Projects: "Potable Water"	1971-1976
21	11	Projects: "Potable Water"	1972-1976
20	43	Proposal: Facilities Available	1978
4	42	Proposals	1974-1975
2	13	Proposals to AEC, DBER, DPR (Division of Physical Research), DAT (Division of Applied Technology) for Gas Analysis Project	1973-1976
25	12	Publication on Iowa State University Chemistry Department	1982 circa
3	41	Publications for Bound Volume III	undated
28	4	Publications: <i>Chemistry Department, Inquiry, Iowa Engineer</i>	1979-1996, undated
10	11	Quantitative and Qualitative Analysis Directions	undated
14	49	Quotes, Sayings, and Poems	1973-1976, undated
11	26	Rare Earth Carbide Hydrolysis	undated
10	12	Rare Earth Iodide Preparation	undated
15	44	Rare Earth Ores	1967
4	41	Regional Mass Spectrometry Center - University of Nebraska	1979-1984
15	42	Regularization of Post-doctoral Fellow Appointments	1969
16	21	Report on Water Samples	1949
14	17-18	Reports	1959-1967
14	8	Reports: Apel, Charles	1954-1955
14	7	Reports: Deal, Bruce	1951-1955
14	23	Reports: DeFayette, Robert	1956-1958
14	4	Reports: Gibbs, Dale	1951-1956
14	6	Reports: Harrington, Rodney	1953-1956
14	24	Reports: Saalfeld, Fred	1957-1962
14	5	Reports: Schell, Al	1955-1956

Box	Folder	Title	Dates
14	25	Reports: Staley, Gene	1957-1960
14	15	Reports and Professional Biographies: Svec, Harry J.	1953-1960, undated
19	58	Requests for Computer Usage for Svec Group	undated
16	15	Requisitions for Drafting Service	undated
26	5	Research Data Notebook	1979
23	35	Research Ideas	1963-1966, undated
26	3	Research Notebook	1942
22	10	Research Notebook #CAP- 2	1955-1957
22	11	Research Notebook #DEF-1	1957-1959
22	12	Research Notebook #HB-1	1959-1968
22	8	Research Notebook #HS-10	1951-1959
22	9	Research Notebook #HS-11	1952-1961
22	1	Research Notebook #HS-2	1945 circa
22	2	Research Notebook #HS-3	1945-1946
22	3	Research Notebook #HS-4	1947-1948
22	4	Research Notebook #HS-5	1948-1949
22	5	Research Notebook #HS-6	1948-1949
22	6	Research Notebook #HS-7	1949-1954
22	7	Research Notebook #HS-8	1949-1954
27	1	<i>Research Publications of Harry J. Svec, Vol. I</i>	1949-1962
27	4	<i>Research Publications of Harry J. Svec, Vol. I</i>	1949-1962
27	2	<i>Research Publications of Harry J. Svec, Vol. II</i>	1963-1968
27	5	<i>Research Publications of Harry J. Svec, Vol. II</i>	1963-1968
27	3	<i>Research Publications of Harry J. Svec, Vol. III</i>	1969-1974
27	6	<i>Research Publications of Harry J. Svec, Vol. III</i>	1969-1974
2	8	Research Summaries	1986
2	4	Research Summaries: Ames Laboratory	1980
2	7	Research Summaries: Chemical Research Summary Book	1983

Box	Folder	Title	Dates
2	5	Research Summaries: Chemical Sciences Summary Book	1981
2	6	Research Summaries: Chemical Sciences Summary Book	1982
14	30	Reserve Officers' Training Corps (ROTC) Information	1963
3	42	Resin Carbon Comparison	1975
11	40	Retarding Potential Difference (RPD) Ion Source	1962
18	39	Rocky Mountain Conference	1980
9	1	Rosters, Fiscal Year 1977	1976-1977
21	38	Saalfeld, F. E.	1990-2001
12	52	Safeguards Symposium - Argonne National Laboratory, June 26-27, 1967	1967
20	58	Safety Committee Information	1967-1983
19	46	Safety Materials	1983
4	43	Safety Memos	1967-1970
20	59	Safety Violations	1980-1981
3	12	Sciences and Humanities Curriculum Committee	1971-1972
3	10	Sciences and Humanities Curriculum Committee	1972-1973
3	9	Sciences and Humanities Curriculum Committee	1973-1974
3	8	Sciences and Humanities Recognition and Awards Committee	1976
12	4	Scientific Apparatus and Methods, v. II	1949
3	43	Scientific Documentation Centre, Ltd.	1974
14	3	Secondary Teacher Preparation	undated
15	46	Secretarial Help	1968-1970
23	41	Selenoamino Acids	1964
11	1	Seminar on Dynamic Mass Spectrometers	1968, undated
16	8	Seminar on Mass Spectrometers	1948
28	5	Senior Chemistry Circle	1950-1974
15	47	Service Reports	1969-1973
16	10	Sigma Xi	1957

Box	Folder	Title	Dates
3	44	Sigma Xi	1971-1974
16	11	Sigma Xi	undated
9	29	Slides (27 b/w)	undated
9	31	Slides (16 b/w)	undated
9	32	Slides (13 color)	undated
9	33	Slides (19 b/w)	undated
9	34	Slides (8 b/w)	undated
29	5	Slides: Chemistry Department and/or Ames Lab History (2 color, 16 b/w)	undated
9	28	Slides: "Chemistry in Ion Sources" (15 b/w)	undated
29	4	Slides: Electron Detection, Ion Source Chemistry (14 color)	undated
29	3	Slides: Ion Source Chemistry (20 color)	undated
29	2	Slides: Metallocene Paper (25 color)	undated
29	1	Slides: Neutral Fragment Talk (32 color, 6 b/w, 2 b/w glass)	undated
9	30	Slides: Neutral Fragments from Ketones (32 b/w)	undated
4	45	Society for Applied Spectroscopy Tour Speaker Program	1981
21	12	Spark Source Mass Spectrography	1969
19	30	Spark Source Mass Spectrometry, Uses of	1972, undated
25	2	Spark Source Research and Service Work	1960-1985, undated
12	47	Spark Source Workshop, National Bureau of Standards	1967
21	6	Spedding, Frank H.	1967-1981
21	7	Spedding, Frank H.	1976-1997
21	15	Spedding, Frank H.	undated
20	60	Spedding, Frank H.: Biographical Data	undated
9	9	Spedding, Frank H.: Biography (presumably written by Harry Svec)	undated
9	12	Spedding, Frank H.: Birthday Party	1982
9	11	Spedding, Frank H.: Display	1979

Box	Folder	Title	Dates
21	34	Spedding, Frank H.: Handwritten Paper	undated
19	29	Spedding, Frank H.: Medals	1978
9	41	Spedding, Frank H.: Nobel Prize Nomination	1967-1978
9	40	Spedding, Frank H.: Priestly Medal	1983
9	23	Spedding, Frank H.: Reminiscences	1979
5	2	Stable Isotopes	1971-1972
15	48	Staff Meeting: Spark Source Program	1969, undated
15	58	Staff Seminar	1954-1964, undated
23	32	Staff Seminar	1964
15	53	Staff Talk	1959-1968
21	28	<i>State Agricultural College</i>	1865-1972
20	73	Struve, Walter B.: Professional Biography and Research	1974-1978, undated
20	39	Super Heavy Elements	1976, undated
19	19	Surface Analysis Course	1974 circa
5	3	Surface Science Seminars	1978
21	17	Svec Group Check-Out Record Form	undated
9	13	Svec Group Check-Out Record and Safety Inspection Form	undated
14	28	Svec Group: General	1964-1965
14	27	Svec Group: Property Inventory	1958-1965
23	2-4	Svec, Harry J. Ph.D. Thesis: Working Draft with Hand-Drawn Diagrams	undated
12	63-64	Teaching and Advising	1963-1969
28	1	Telephone Logs	1977-1983
11	11	Thermochemistry by Mass Spectrometry	undated
10	22	Thermocouple Data	1954-1957
10	29	Thermodynamics	1942-1943
19	33	Thiocarbonyls	undated

Box	Folder	Title	Dates
11	68	Tracings, Figures MS II	undated
21	1	Transcript of "Metallurgical Reminiscences" by Harley Wilhelm	1984
23	30	Travel	1961
15	49	Travel	1968-1969
10	7	University Publications	1942-1945
12	60	Vacuum Items	1968
4	1	Visit by Dr. O. W. Adams - Review	1978
20	66	Visitor Control Policy and Procedure	undated
11	58	Volume Data for Runs	undated
9	38	Water Pollutant Articles	1972-1977
19	31	Water Project	1972, undated
3	45	Water Resources Research Center Literature	1972
21	5	Wilhelm, Harley; Wilhelm Hall	1985-1992
15	50	Work Done for Others	1972
3	47	Work Done for Others: Silver Samples, National Bureau of Standards (Vincent Bower)	1975
3	46	Work Done for Others: ZnO Samples from 3M (Gene Sparrow)	1973
4	27	Workshops: Munster, West Germany	1980-1982
15	2	Writing Improvement	1968, undated
10	15	X-Ray Crystallography (3 b/w photographs)	1945
Artifact Collection		Glass Mercury Diffusion Pump, made by Harry J. Svec (broken stem, includes information on several artifacts) (artifact 2003-203.001)	1941
Artifact Collection		Glass Mercury Diffusion Pump, made by Harry J. Svec (not broken) (artifact 2003-203.002)	1941
Artifact Collection		Quartz Fiber Balance, made by Harry J. Svec (artifact 2003-203.003)	1940 circa
Artifact Collection		Christian Becker Chainomatic Two-Pan Balance (artifact 2003-203.004)	1936-1941 circa

Box	Folder	Title	Dates
Artifact Collection		Alpha Chi Sigma Pins (artifact 2014-R002)	undated
Artifact Collection		Mass Spectrometer Parts, Manufactured by Iowa State University (artifact 2005-040.001)	undated
Artifact Collection		Leak Detector for Helium Mass Spectrometer, Built by General Electric (artifact 2005-040.002)	1945
Artifact Collection		Nickel, Germanium, and Thallium, Used to Calibrate a Mass Spectrometer (artifact 2005-040.003)	undated
Artifact Collection		NaCl blanks, Used in Mass Spectrometry (artifact 2005-040.004)	undated
Artifact Collection		Atomic Weight Titanium Dioxide from A. Q. Butler (artifact 2005-040.005)	1966

Appendix – Acronyms appearing more than once

Acronym	Full Name
ACS	American Chemical Society
AEC	Atomic Energy Commission
ASMS	American Society for Mass Spectrometry
ASTM	American Society for Testing and Materials
ATLAS	(company name)
AWWA	American Water Works Association
BES	Basic Energy Sciences
DBER	Division of Biomedical and Environmental Research
DOE	Department of Energy
EMRRI	Energy and Mineral Resources Research Institute
EPA	Environmental Protection Agency
ERDA	Energy Research and Development Administration
EV	(refers to the DOE Office of Environment)
GE	General Electric
GP	Gas Purifier/Gas Purification
ICP-MS	Inductively Coupled Plasma – Mass Spectrometry
IJMSIP	International Journal of Mass Spectrometry and Ion Physics
ISWRRRI	Iowa State Water Resources Research Institute
IUPAC	International Union of Pure and Applied Chemistry
MS	Mass Spectrometer
NAA	Nuclide Analysis Associates
NSF	National Science Foundation