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RS 13/6/57

Patricia A. Thiel (1953-)

Papers, 1953-[ongoing]

Descriptive summary

creator: Thiel, Patricia A. (1953-)

title: Papers

dates: 1953-[ongoing]

extent: 83.54 linear feet (163 document boxes, 10 records center cartons, 2 oversized boxes, 2 half-document boxes, 4 card file boxes, and 1 map case folder)

collection number: RS 13/6/57

repository: University Archives, Archives of Women in Science and Engineering, Special Collections Department, Iowa State University.

Administrative information

access: Open for research

publication rights: Consult Head, Special Collections Department

preferred citation: Patricia A. Thiel Papers, RS 13/6/57, Archives of Women in Science and Engineering, Special Collections Department, Iowa State University Library.

Biographical note

Patricia A. Thiel, a native of Adrian, Minnesota, received her B.A. (1975) from Macalester College and a Ph.D (1981) from the California Institute of Technology in chemistry. She has been employed as an Associate Scientist at Control Data Corporation (1975-1976); Technical staff member at Sandia National Laboratory (1981-1983); post-doctoral research associate at the University of California at Berkeley (1983); Technical staff at Thermochemical Labs (1983); Assistant Professor (1983-1988), Associate Professor (1988-1991) and Professor (1991-) of Chemistry at Iowa State University. She was named Chair of the Department in 1999.

Thiel has received numerous awards and fellowships, including the Alexander von Humboldt Fellowship (1981); the Alfred P. Sloan Fellowship (1984-1986); the National Science Foundation Presidential Young Investigator (1985); the Henry Dreyfus Fellowship (1986-1990); and a faculty award (1991) from the National Science Foundation. She has published numerous professional articles and is a member of the American Chemical Society (ACS), the American Association for the Advancement of Science (AAAS), the American Vacuum Society (AVS), and the Materials Research Society (MRS). In 2000, she was elected a Fellow of the American Physical Society (APS) for "her pioneering work on the surface structures, stabilities, and other properties of metal films and quasicrystals, and the elucidation of surface structure and chemistry of water on films."

Collection description

This collection (1953-[ongoing]) contains biographical information, lists, telephone and address books, calendars, correspondence, school papers, notes, and exams, laboratory reports, printed materials, committee records, seminar materials, lecture notes, student evaluations, materials relating to conferences, trips, and visits by companies and scholars, grant proposals, research notebooks, publications, research data, photographs, videotapes, and computer tape. Records from Thiel's tenure as Iowa State University Chemistry Department Chair are restricted and are unavailable until 2066.

Organization

The collection is organized into eleven series:

- [Series 1, Biographical Information, 1953-\[ongoing\] \(chronological\)](#)
- [Series 2, Address Books and Calendars, 1983-2004 \(chronological\)](#)
- [Series 3, Correspondence, 1976-2015 \(chronological\)](#)
- [Series 4, Education, 1966-1980, undated \(chronological\)](#)
- [Series 5, Employment, 1980-\[ongoing\] \(chronological\)](#)
- [Series 6, Conferences and Travel, 1982-\[ongoing\] \(chronological\)](#)
- [Series 7, Grants, 1979-2004 \(chronological\)](#)
- [Series 8, Notebooks, 1978-2004, undated \(chronological\)](#)
- [Series 9, Publications, 1976-\[ongoing\] \(alphabetical\)](#)
- [Series 10, Research Data, 1967-2005, undated \(alphabetical\)](#)
- [Series 11, Photographs, 1969-2009, undated \(chronological\)](#)

Description of series

Series 1 Biographical Information 1953-[ongoing]

description: Contains biographical information.

Container list

Box	Folder	Title	Dates
1	1	Biographical information	1953-2010
178	7	Acknowledgement in <i>Chemical Principles in the Laboratory</i> by Emil Slowinski	1973-1974
160	1	Gifts received from colleagues - Red ceramic lobster, rectangular epoxy encapsulation of technical components, tile with 8-fold symmetry pattern, miniature glass still	1976-2000
161	1	Gifts received from colleagues - cup and matching plate, framed parade scene, Chinese wood-cut in glass, bell ornament	1989-2002
141	8	Historic Old Town Neighborhood Association - Shelter House Materials	2001-2006
113	1	Summary of accomplishments for the calendar year 2001	2002
111	3	Illustrations by Pat Thiel - portraits	2004, undated

Box	Folder	Title	Dates
141	9	Historic Old Town Neighborhood Association - Miscellaneous Materials	2005-2006
156	4	Historic Old Town Neighborhood Association - Miscellaneous Materials	2004-2008
159	1	Gifts received from colleagues - Wooden trinket box and bobble-head doll	2005
159	2	Plaque - 25 years of service to Ames Laboratory	2008
158	7	Certificate - Iowa State University 25-Year Club	2009
182	3	Oral History Interview of Mark J. Cardillo by Pat Thiel - CD and transcript	2013 circa
128	6	Pets	undated
Artifact Collection		Aluminum-copper-iron quasicrystal alloy plasma arc sprayed on to copper plate with Ames Laboratory logo (Artifact 2009-142)	undated

Description of series

Series 2 Address Books and Calendars 1983-2004

description: Contains personal address books, calendars and telephone number lists.

Container list

Box	Folder	Title	Dates
1	3	Telephone and address book	1983-1989
1	2	Telephone lists	1983-1989
1	4	Calendar	1985
1	5	Calendar	1986
1	6	Calendar	1987
1	7	Calendar	1988
1	8	Calendar	1990
1	9	Calendar	1990
1	10	Calendar	1994
68	1	Calendar	1995
68	2	Calendar	1996

Box	Folder	Title	Dates
Map Case	C 409 D 08	Calendar - Plan-a-Month poster calendar with annotation (2) At-a-Glance poster calendar with annotation	1997-2003
106	1	Appointment book (2)	1997-1999
109	1	Desktop calendar	1999
138	1	Calendar and nomination for award	2000
109	2	Desktop calendar	2002
131	16	Calendar	2004

Description of series

Series 3 Correspondence 1976-2015

description: Contains personal and professional correspondence.

Container list

Box	Folder	Title	Dates
2	1	Applications to graduate school	1976
2	2	Correspondence	1981-1982
2	3	Correspondence	1983
2	4	Correspondence	1986
3	2	Correspondence	1987
3	3	Duke University	1987
3	4	Madey, Dr.	1987
3	1	Correspondence	1987-1989
4	2	Correspondence	1988
4	1	Correspondence	1988-1994
4	3	Correspondence (Jan-May)	1989
4	4	Correspondence (Jun-Dec)	1989
68	4	Langmuir Advisory Board and <i>ACS Journal of Surfaces and Colloids</i>	1989-1995
68	5	Chemistry department memoranda	1990
4	5	Correspondence	1990

Box	Folder	Title	Dates
4	6	Berlin correspondence and notes	1991
68	6	Chemistry department memoranda	1991
68	7	Correspondence	1995
68	8	Suzer	1996
68	9	AVS regarding Goodman, D. Wayne	1998
68	10	LAS Award for Professional and Scientific Staff Excellence	1998-1999
113	6-7	Personal Correspondence	1988
113	8	Personal Correspondence	1989
113	9-10	Personal Papers	1990
178	9	Correspondence with Charles J. Guare about Error, Uncertainty, and Accuracy	1990
113	11-12	Personal Documents	1991
113	13	Personal Correspondence	1993
125	6	Professional Correspondence - quasicrystal story	1999
138	5	Correspondence, on CD (1 CD-ROM)	1999-2005
113	14-15	Papers, Correspondence, Notes	2002-2003
113	16-17	Papers, Correspondence, Notes	2003
128	14	Christmas Letter, first draft (CD)	2003
127	5-6	Correspondence, Christmas cards and letters	2003
134	16	Correspondence with Ingo Petersen	2003
121	1	Correspondence	2003-2004
127	10	Personal events planned	2003-2004
127	14	Correspondence from sponsored child: Byron Lima	2004
127	15	Funeral bulletins and obituaries	2004
127	16	Concert tickets	2004
127	18	Correspondence, personal	2004
127	19	Correspondence, City of Ames vs. Leon Apt	2004
127	20	Correspondence, Complaint to Sears Roebuck	
129	5	Misc. Correspondence - Site Review	2004
129	7-8	Misc. Correspondence, etc.	2004-2005

Box	Folder	Title	Dates
134	23	Christmas Letters	2005
135	1-2	Christmas Letters	2005
153	9	Xi'an, China - correspondence from Dr. Haussler	2006
162	1-2	Christmas Letters	2008
165	6-7	Cards and Letters	2009
185	11	Personal Correspondence (7 Color Photos)	2013-2014
186	1	Personal Correspondence	2013-2014
186	2	Personal Correspondence (2 Color Photos)	2013-2014
186	3	Personal Correspondence (5 Color Photos)	2013-2014
186	4	Personal Correspondence (3 Color Photos)	2013-2014
193	8	Professional Papers - Teaching Assignments (March)	2014
193	9	Professional Papers - Old, Young, and Variable Conference (May)	2014
193	10	Professional Papers - Service Award for 30 Years at Ames Lab (June)	2014
193	11	Professional Papers - Memorial for Timothy Jenks (July)	2014
193	12	Professional Papers - Memorial for Robert E. McCarley (Augustst)	2014
193	13	Professional Papers - Map of Israel, Conversation about Conflict in Gaza (July)	2014
193	14	Professional Papers - Congratulations Note on Welch Award (July)	2014
193	15	Professional Papers - Hiring Plan for Department of Chemistry (October)	2014
193	16	Professional Papers - Memorial for Bruce Thompson and Unveiling of Sculpture (October)	2014
193	17	Professional Papers - NSF Renewal Notes (October)	2014
193	18	Professional Papers - Commencement Program Including David Appy (December)	2014
193	19	Professional Papers - Memo Regarding FY2015 Salary (July)	2014
194	3	Misc. Professional Papers	2015

Box	Folder	Title	Dates
131	9	Einstein's 1912 Manuscript on the Special Theory of Relativity (mouse pad)	undated

Description of series

Series 4	Education	1966-1980, undated
description: Contains exams, lab reports and notes for classes taken at California Institute of Technology and St. Anthony School.		

Container list

Box	Folder	Title	Dates
4	7	St. Anthony School - Theses, manuscripts, reports, footnotes and bibliography	1966
4	8	Macalester College - Chemistry 13 exam and notes	1971
4	9	Macalester College - German 31 notes and quizzes	1971
5	1	Macalester College - Critical thinking notes and exams	1971
5	2	Macalester College - Chemistry 13 lab reports	1971
5	3	Macalester College - Calculus notes, assignments and tests	1971
5	4	Macalester College - Introduction to Philosophy articles and notes	1971
5	5	Macalester College - Computer programming exams, notes and handouts	1972
5	6	Macalester College - Organic Chemistry notes and exams	1972
5	7	Macalester College - Organic Chemistry lab reports	1972
5	8	Macalester College - Calculus notes	1972
5	9	Macalester College - American Political Thought exams, paper and notes	1972
5	10	Macalester College - Biology II notes and exams	1972
5	11	Macalester College - Physics exams, quizzes and notes	1973
5	12	Macalester College - German	1973
6	1	Macalester College - Math 33: Linear Analysis, Math 34: Intermediate Calculus - exams and worksheets	1973

Box	Folder	Title	Dates
6	2	Macalester College - Organic Chemistry II notes and worksheets	1973
6	3	Macalester College - Existentialism and Theology notes and papers	1973
6	4	Macalester College - Physics 27 lab reports	1973
6	5	Macalester College - Physics 27 notes and worksheets	1973
6	6	Macalester College - Physical Geology tests and exercises	1973
6	7	Macalester College - Physical Chemistry lab reports	1973-1974
66	11	Macalester College - Physical Chemistry tests	1973-1975
66	12	Macalester College - Physical Chemistry tests	1973-1975
6	8	Macalester College - Advanced Inorganic Chemistry notes	1974
6	9	Macalester College - Physics 42 tests and notes	1974
6	10	Macalester College - Research Project, <i>Substitution-Rearrangement Reactions - of 2-Arylsulfonylally Halides</i>	1974
7	1	Macalester College - Myths: Ancient and Modern Religion notes and papers	1974
7	2	Macalester College - Mathematical Statistics notes and quizzes	1974
7	8	Macalester College - Electronic Problems I, Electronic Problems II, Electronics - Lab, Physics 26 notebooks	1974-1975
7	3	Macalester College Honors thesis: <i>Substitution-Rearrangement Reactions of - 2-Arylsulfonylally Halides</i>	1975
7	4	Macalester College - Analytical Chemistry notes and tests	1975
7	5	Macalester College - Advanced Analytical Chemistry notes and tests	1975
7	6	Macalester College - Spectroscopy worksheets and problems	1975
7	7	Macalester College - Advanced Organic Chemistry notes and worksheets	1975
178	8	Macalester College - Quantum Mechanics "review of Sherwin's Text and Summary" assignment	1975

Box	Folder	Title	Dates
7	10	California Institute of Technology - Inorganic Chemistry notes and papers	1976
8	1	California Institute of Technology - Physics 129 lecture notes	1976
8	2	California Institute of Technology - Quantum Mechanics lecture notes	1976
8	3	California Institute of Technology - Quantum Mechanics lecture notes	1976
8	5	California Institute of Technology - Chemistry 120 (Nature of the Chemical Bond) - volume 3 chapters 1-2	1976
8	6	California Institute of Technology - Chemistry 120 (Nature of the Chemical Bond) - volume 3 chapters 3-5	1976
9	1	California Institute of Technology - Chemistry 120 (Nature of the Chemical Bond) - volume 3 chapters 5-7	1976
9	2	California Institute of Technology - Chemistry 120 (Nature of the Chemical Bond) - volume 3 chapter 9	1976
9	3	California Institute of Technology - Chemistry 125b lecture notes	1977
9	4	California Institute of Technology - Chemistry 125b lecture notes	1977
10	1	California Institute of Technology - Quantum Mechanic notes	1977
10	2	California Institute of Technology - Quantum Mechanic notes	1977
10	3	California Institute of Technology - Solid State Physics/ Applied Physics notes	1977
10	4	California Institute of Technology - Research group lab notebooks	1978-1980
8	4	California Institute of Technology - Chemistry 112 notes	undated

Description of series

Series 5 Employment 1980-[ongoing]

description: Contains course notes, course packets, evaluations, exams, homework solutions, lab manuals, lecture notes, recruiting materials, seminar schedules, and viewgraphs.

Container list

Box	Folder	Title	Dates
103	3	Viewgraphs: fluorocarbon seminars	1980
103	4	Viewgraphs: water review	1980
11	1	Sandia Laboratories - notes, addresses and correspondence	1980-1981
11	4	Iowa State University Chemistry Department - Council on International Programs	1982-1987
11	3	Iowa State University - correspondence and printed materials	1983
100	7	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course evaluations	1983-1984
11	5	Iowa State University Chemistry Department - Noble-Hines competition	1984
11	6	Iowa State University Chemistry Department - faculty recruitment correspondence	1984
103	5	Viewgraphs: old Pt/Pd	1984
11	7	Iowa State University Chemistry Department - general student recruiting	1984-1985
11	8	Iowa State University Chemistry Department - student committees	1984-1986
11	9	Iowa State University Chemistry Department - material sciences program reviews	1984-1994
12	1	Iowa State University Chemistry Department - seminar committee	1985
12	2	Iowa State University Chemistry Department - seminar schedule	1985
12	4	Iowa State University Chemistry Department - Noble - Hines competition	1985
14	9	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) lecture notes	1985
14	10	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) lecture notes	1985
94	3	Iowa State University Chemistry Department - Chemistry 322 lecture notes	1985

Box	Folder	Title	Dates
94	4	Iowa State University Chemistry Department - Chemistry 322 lecture notes	1985
94	5-6	Iowa State University Chemistry Department - Chemistry 322 exams and grades	1985
94	7	Iowa State University Chemistry Department - Chemistry 322 and 325 course evaluations	1985
12	3	Iowa State University Chemistry Department - seminar committee	1985-1986
112	3	Backup data tape	1985-1987
112	1	Files on tape directories	1985-1993
12	5	Iowa State University Chemistry Department - Physics selection committee	1986
12	6	Iowa State University Chemistry Department - library issues	1986
12	7	Iowa State University Chemistry Department - department seminars	1986
12	8	Iowa State University Chemistry Department - Midwest Exchange Seminars	1986
93	2	Iowa State University Chemistry Department - Chemistry 316 course information	1986
93	3	Iowa State University Chemistry Department - Chemistry 316 course information	1986
94	8	Iowa State University Chemistry Department - Chemistry 322 handout	1986
95	1	Iowa State University Chemistry Department - Chemistry 322 lecture notes	1986
95	2	Iowa State University Chemistry Department - Chemistry 322 lecture notes	1986
95	3	Iowa State University Chemistry Department - Chemistry 322 exams	1986
95	4	Iowa State University Chemistry Department - Chemistry 322 exams and grades	1986
103	6	Viewgraphs: from Bauer	1986
103	7	Viewgraphs: NERM (originals)	1986
103	8	Viewgraphs: old fluorocarbon seminar (Polaroid)	1986

Box	Folder	Title	Dates
12	9	Iowa State University Chemistry Department - seminars	1986-1987
12	10	Iowa State University Chemistry Department - Seminar Committee	1986-1987
121	9-10	Isotope Effects	1986-1987
103	9	Viewgraphs: NERM talk	1986-1988
101	11	<i>Ames Laboratory Research Report</i>	1987
13	1	Iowa State University - IPRT Director search	1987
13	2	Iowa State University - IPRT Director search	1987
14	1	Iowa State University Chemistry Department - Council on International Progress report	1987
14	11	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) lecture notes	1987
14	12	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) quizzes and student evaluations	1987
94	1	Iowa State University Chemistry Department - Chemistry 321L lecture notes	1987
95	5	Iowa State University Chemistry Department - Chemistry 322 course information	1987
95	6	Iowa State University Chemistry Department - Chemistry 322 course evaluations	1987
95	7	Iowa State University Chemistry Department - Chemistry 322 lecture notes	1987
96	1	Iowa State University Chemistry Department Chemistry 322 lecture notes	1987
103	10	Viewgraphs: water-isotope and effect	1987
13	3	Iowa State University Chemistry Department - Chemistry Graduate Review Committee	1987-1988
13	4	Iowa State University Chemistry Department - affirmative action	1987-1988
13	5	Iowa State University Chemistry Department - department seminars	1987-1988
13	6	Iowa State University Chemistry Department - faculty recruiting	1987-1988
93	1	Iowa State University Chemistry Department - Physical Chemistry handout	1987-1988

Box	Folder	Title	Dates
103	11	Viewgraphs: O/Pd (100)	1987-1988
13	10	Iowa State University Chemistry Department - Analytical Search Committee	1987-1990
13	7	Iowa State University Chemistry Department - faculty searches	1988
13	8	Iowa State University Chemistry Department - Dean of Sciences and Humanities search	1988
15	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) problem solutions	1988
15	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Science) handouts	1988
93	4	Iowa State University Chemistry Department - Chemistry 316 course information	1988
93	5	Iowa State University Chemistry Department - Chemistry 316 course information	1988
93	6	Iowa State University Chemistry Department - Chemistry 316 course evaluations	1988
96	4	Iowa State University Chemistry Department - Chemistry 560 chapter 18 and 19, lecture notes	1988
96	5	Iowa State University Chemistry Department - Chemistry 560 chapter 18 and 19, lecture notes	1988
96	6	Iowa State University Chemistry Department - Chemistry 560 exams and grades	1988
104	1-2	Viewgraphs: explosive (O/Pd)	1988
168	3	Audiotape - Group Seminar, "History of the Group"	1988
13	9	Iowa State University Chemistry Department - Graduate Selection Committee	1988-1989
109	3	Fellowship and award nominations	1988-1989
102	1	Ames Laboratory budget	1988-1990
93	7-8	Iowa State University Chemistry Department - Chemistry 316 lab manual	1989
14	5	Iowa State University Chemistry Department - University Relations search	1990
14	2	Iowa State University Chemistry Department - Ad hoc Committee on Student Longevity	1990

Box	Folder	Title	Dates
14	3	Iowa State University Chemistry Department - analytical search	1990
14	4	Iowa State University Chemistry Department - analytical search	1990
96	2	Iowa State University Chemistry Department - Chemistry 325L (Physical Chemistry) lab manual	1990
96	3	Iowa State University Chemistry Department - Chemistry 325L (Physical Chemistry) lab manual	1990
97	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet	1990
97	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1990
97	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1990
97	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) exams, grades and problem sets	1990
97	5	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) exams, grades and problem sets	1990
102	2	Materials Chemistry Basic Energy Sciences Program review	1990
102	10	Scrapbook and photos (10 B&W 5x7, 1 B&W 8x10)	1990
168	1	Audiotape - Group Seminar	1990
168	2	Audiotape - Group Seminar, Power Outages, Delay Boxes, and Vent Valves	1990
168	4	Audiotape - Group Seminar, Sample Mounting	1990
168	5	Audiotape - Group Seminar, Multipliers and Phosphors	1990
168	6	Audiotape - Group Seminar, Bakeouts and Insidious Leaks	1990
168	7	Audiotape - Group Seminar, TSP's and Ion Pumps	1990
168	8	Audiotape - Group Seminar, Valves	1990
168	10	Audiotape - Group Seminar, Electron- and Ion-Guns	1990
168	13-14	Audiotape - Chemistry 576 lecture by Jim Evans on Ising model	1990
168	15	Audiotape - Chemistry 576 lectures	1990

Box	Folder	Title	Dates
142	1	Chemistry 576 - overheads; lecture 6, faceting	1990-2003
142	2	Chemistry 576 - overheads; lectures 9 & 10, structure	1990-2003
142	3	Chemistry 576 - overheads; lecture 14, diffusion	1990-2003
142	4	Chemistry 576 - overheads; lecture 16 & 17, sticking and gas sources	1990-2003
142	5	Chemistry 576 - overheads; lecture 19, scattering	1990-2003
142	6	Chemistry 576 - overheads; lecture 21, catalysis	1990-2003
142	7	Chemistry 576 - overheads; lecture 22, intro to e-spec	1990-2003
142	8	Chemistry 576 - overheads; lecture 23, general instrumentation	1990-2003
142	9	Chemistry 576 - overheads; lectures 24 & 25, XRF & XPS	1990-2003
142	10	Chemistry 576 - overheads; lecture 27, AES	1990-2003
142	11	Chemistry 576 - overheads; lecture 29, SSIMS	1990-2003
142	12	Chemistry 576 - overheads; lecture 30, SIMS	1990-2003
142	13	Chemistry 576 - overheads; lecture 31	1990-2003
142	14	Chemistry 576 - overheads; lecture 32	1990-2003
142	15	Chemistry 576 - overheads; lecture 35, LEED	1990-2003
142	16	Chemistry 576 - overheads; unlabeled	1990-2003
142	17	Chemistry 576 - overheads; unlabeled	1990-2003
142	18	Chemistry 576 - overheads; vacuum technology, HREELS, RAIRS, scanning probe microscopies, SIMS	1990-2003
142	19	Chemistry 576 - overheads; XPS, UPS, AES, SAM, SPEM, Synchrotron	1990-2003
101	1	Department of Chemistry Self Study	1991
14	6	Iowa State University Chemistry Department - corporate liaison work (3M)	1991
102	3	Materials Chemistry Basic Energy Sciences Program review	1991
104	3	Viewgraphs: Old Pt/Pd and Rh/Ag	1991
104	4	Viewgraphs: Thin Film Talk	1991
109	4-5	Safety and Health Tiger Team	1991-1992
14	7	Iowa State University Chemistry Department - ACS Lamer Award Committee	1991-1993

Box	Folder	Title	Dates
112	5	Archive diskettes #1-13 (13-1.5 floppy disks)	1991-1993
15	3	Iowa State University Chemistry Department - Chemistry 321L/325L student evaluations	1992
16	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1992
16	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1992
16	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) homework sets	1992
16	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) exams and evaluations	1992
94	2	Iowa State University Chemistry Department - Chemistry 321L and 325L	1992
97	6	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet	1992
98	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1992
98	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1992
98	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) viewgraphs and problem sets	1992
104	6	Viewgraphs: formic acid talk	1992
104	5	Viewgraphs: physics colloquium	1992
14	8	<i>Visions</i>	1992
168	9	Audiotape - Marc Porter, Surface IR	1992
102	5	Ames Laboratory materials chemistry work authorization system	1993
102	4	Ames Laboratory materials sciences executive summaries	1993
98	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packets	1993
98	5	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1993
98	6	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	1993

Box	Folder	Title	Dates
98	7	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) exams and problems	1993
102	6	Materials chemistry BES program review	1993
104	7	Viewgraphs: Pd/Pd (100) Hawaii talk	1993
104	8	Viewgraphs: Rh/Ag (100) Hawaii talk	1993
112	6	Archive diskettes #14-18 (5-1.5 floppy disks)	1993
99	7	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) teaching evaluations	1993-1995
101	4	Advisory Board: Surface Science	1993-1998
102	7	Ames Laboratory DOE science review	1994
102	11	Chemistry Department faculty file	1994
106	20	Department of Energy surveys	1994
104	9	Viewgraphs: Fluorocarbon seminars	1994
105	1	Viewgraphs: O/Ni	1994
105	2	Viewgraphs: Oxides and metal films	1994
109	6	Journal of Colloid and Interface Science	1994
99	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) principles of surface science, lecture notes from section 1	1994-1995
99	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) principles of surface science, lecture notes from section 1	1994-1995
99	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) techniques of surface science, lecture notes from section 2	1994-1995
125	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) Exams and homework solutions	1994-1995
112	2	Posters: Quasicrystals and American Vacuum Society	1994-1996
101	5	Analytical Seminars Committee and Library Committee	1994-1997
102	9	Adventures in supercomputing - Iowa AiS Expo '95	1995
102	8	Ames Laboratory program review	1995
101	6	Committee work	1995
106	21	Department of Energy survey results	1995

Box	Folder	Title	Dates
99	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course material	1995
99	5	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) chemistry material	1995
99	6	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course works	1995
105	3	Viewgraphs: presentation	1995
101	2	Chemistry Department Curriculum	1995-1997
101	3	Chemistry Department Curriculum	1995-1997
121	12	Viewgraphs - Oxidation of AlPdMn	1995-1998
121	11	Viewgraphs - Oxidation of Al-Cu-Fe	1995-1999
102	12	Chemistry Department faculty file	1996
100	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet #1, principles part 1	1996
100	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet #1, principles part 1	1996
100	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet #2 and #3	1996
100	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet #2 and #3	1996
106	22	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course packet	1996
109	7	American Vacuum Society	1996
122	1	LEED IV	1996
153	10	Pchem lab manual - lecture material, experiment results (also see Series 9, Box 80, folders 4,5)	1996-1998, undated
142	20	Chemistry 576 - research topics, non-Thiel journal articles	1996-2007
102	13	Chemistry Department professional file	1997
106	23	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) exams	1997
125	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) handed-in corrections for student manual	1997

Box	Folder	Title	Dates
109	8	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course pack, evaluation, STM lab	1997
109	9	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) Section 1: Surface Phenomena	1997
109	10	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) Section 2: Techniques	1997
109	11	Chemistry minor requirements	1997
101	9	Analytical Seminars Committee and Library Committee	1997-1998
101	7	Condensed Matter Physics Experimental Search Committee	1997-1998
101	8	Physical Chemistry Search Committee	1997-1998
109	12	Graduate assistant stipend	1997-1998
109	13	Basic Energy Sciences Advisory Committee	1997-1999
101	10	Committee work	1998
100	5	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course materials	1998
100	6	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course materials	1998
106	24	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) evaluations	1998
103	12	Viewgraphs: Madey birthday celebration	1998
109	14-15	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) course pack	1998
122	2	Physical Behavior of Quasicrystals & Suggested Applications - Dan Sordelet	1998
122	3	Viewgraphs - Oxidation General	1998
142	21	Chemistry 576 - exam #1 answer key, transparencies	1998-2000, undated
138	4	Chemistry Dept. File for Salary Review: cy	1999
109	16	Curriculum vitae	1999
109	17	Graduate student recruiting	1999
109	18	Spectroscopy purchase	1999

Box	Folder	Title	Dates
113	2	Graduate Student - <i>Scanning tunneling microscopy studies of submonolayer and multilayer Ag films deposited on Ag(100)</i> Conrad Robert Stoldt	1999
122	4	Quasicrystals - Polymers	1999
168	12	Audiotape - Quasicrystal lecture	1999
106	25	Letters of recommendations	1999-2000
106	26	Manuscript reviews	1999-2000
109	19-20	Symposium chair organization	1999-2000
112	7	Viewgraphs etc. (2-CD-R)	1999-2002
112	12	Manuscripts (1 CD-R)	1999-2002
125	8	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lecture notes	2000
107	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) class evaluations and notes	2000
125	9	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) mid-course student evaluations	2000
125	7	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) updated versions of student packets and notes	2000
171	1-2	Chemistry 325 - Professor Gerry Small's lecture notes	2000 ca.
142	22-23	Forensics files - student correspondence, information, articles	2000-2006
143	1	Forensics files - correspondence, paper, student data	2000-2006
138	2	Faculty File Materials	2001
112	8	Attachments (1-CD-R)	2001
112	11	Emails (1 CD-R)	2001
129	22	Forensic Sciences courses	2001-2005
107	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) lectures (12 CDs)	2002
125	12	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) class information, lecture notes, and emails from student regarding class	2002
125	13	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) first exam	2002

Box	Folder	Title	Dates
126	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) second exam	2002
126	2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) final exam	2002
126	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) homework set #2	2002
126	4-6	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) power point slides and notes for first 1/3 of semester	2002
126	7-9	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) power point slides and notes for second 1/3 of semester	2002
126	10	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) power point slides and notes for third 1/3 of semester	2002
127	1-2	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) power point slides and notes for third 1/3 of semester	2002
127	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) materials used to revise Webct part of course	2002
122	5	Documents from 2002 Salary Review in the Department of Chemistry	2002
122	6	New Chemistry Building Meeting Fall	2002
122	7	New Chemistry Building Meeting August 14, Beardshear	2002
122	8	New Chemistry Building Meeting October 3, Beardshear	2002
122	9	New Chemistry Building Meeting November 25	2002
143	2	Student evaluations for on-line class teaching	2002
127	4	Iowa State University Chemistry Department - Annual Salary Review	2002-2003
112	9	Brain-on-a-CD - Files, seminar, references, course pack, curriculum, pictures (1 CD-R)	2003
112	10	Brain Backup - PDFs, references (1-CD-R)	2003
169	7	Chemistry 321L/322L - Problem sets and lecture notes	2003
129	9	Fall 2003 Seminars: Individual Speakers	2003

Box	Folder	Title	Dates
129	12	Fall 2003 Seminars: Seminar Finances	2003
122	10	Dean, Liberal Arts and Sciences Search Committee	2003
122	11	Industrial Advisory Board	2003
122	12	Mentor Award	2003
122	13	New Chemistry Building Meeting January 21, with Foundation	2003
122	14	New Chemistry Building Meeting March 27, at ISU Foundation	2003
122	15	New Chemistry Building Meeting September 25, at Gilman	2003
122	16	Referee Response Form	2003
122	17	Review	2003
127	7	Department of Chemistry newsletter mentions	2003
134	5	History of the Chemistry Department Draft Chapter 1: The Place	2003
134	6	History of the Chemistry Department Draft Chapter 2: The People	2003
134	7	History of the Chemistry Department Draft Chapter 3: Establishing the College	2003
134	8	History of the Chemistry Department Draft Chapter 4: The Chemistry Curriculum	2003
134	9	History of the Chemistry Department Draft Chapter 5: The Original Chemistry Building	2003
134	10	History of the Chemistry Department Draft Chapter 6: The Building of a New Chemistry Building	2003
134	11	History of the Chemistry Department Draft Chapter 7: A Change in the Role of Chemistry at Iowa State	2003
134	12	History of the Chemistry Department Draft Chapter 8: World War II Activities	2003
133	5	Office Door Decorations	2003-2006
127	9	Professional events planned	2003-2004
127	17	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) final course evaluations	2004

Box	Folder	Title	Dates
128	1	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) problem set solutions by Mark Jensen, T.A.	2004
128	7	AVS '04, contains awards, dist. comm, cumes, dean search, doe program, letters etc., proposals, visitors, trips seminars (CD burned Jan 3, 2005)	2004
128	8	Iowa State University Chemistry Department - Chemistry 322 materials as of July 2004, for use Spring 2005 (CD)	2004
129	4	Materials from 2004 Salary Review File - Chemistry Department	2004
129	11	Fall 2003 Seminars: National Academy & Department Chairs	2004
128	11	Iowa State University Chemistry Department - Chemistry 321L, Chemistry 322, Chemistry 576, emails '04 and viewgraphs abstracts (CD)	2004
127	13	Ames lab newsletter mentions, awards and a group picture	2004
122	18	The Materials Chemistry Program: Overview	2004
122	19	Nomination for Fellowship	2004
122	20	Physical Review B	2004
123	1	Program Review (2 CD-ROMs)	2004
123	2	Science Night at Northwood February 26	2004
129	6	Chemistry 576 Fall 2004	2004
130	1	Seminar & Library Work: Library	2004
130	4-5	Chemistry 322 - People, Homework Solutions, Exams 1 & 2	2004
170	1	Chemistry 616: Special Topics in Analytical Chemistry - recordings of guest presentations (15 videotapes)	2004
129	10	Fall 2003 Seminars: Global Issues	2004-2005
128	9	Iowa State University Chemistry Department - Chemistry 619 (forensic science seminar) attachments part 1 (CD burned Jan 4, 2005)	2004-2005
128	10	Iowa State University Chemistry Department - Chemistry 322, Chemistry 540x (CD)	2005
130	3	Chemistry 322 - mid-semester evaluations	2005

Box	Folder	Title	Dates
130	6-7	Chemistry 322 - presentations	2005
130	8-9	Chemistry 322 - boardwork, people & grades, homework solutions and exams 1 & 2	2005
139	3-7	Iowa State University Chemistry Department - Chemistry 322 (Physical Chemistry II) - lecture presentations	2005
139	2	Iowa State University Chemistry Department - Chemistry 324 (Introductory Quantum Mechanics) - study guides, exams, and homework (1 CD)	2005
130	2	Final evaluations - Chemistry 322	2005
171	3	Chemistry 325 - Hans Stauffer's lecture notes	2005
132	2	Forensics Lecture	2005
140	1	Salary review	2005
132	3	Chemistry 542	2006
132	4	Chemistry 540 Proposals	2006
133	8	Take-home work #1 & #2	2006
134	3-4	Ted Kooser Day 1 & 2	2006
134	14	Department History: Nellie May Naylor and SUEC CD's	2006
134	13	Chemistry History - Feedback	2006
139	1	Iowa State University Chemistry Department - Chemistry 325 (Chemical Thermodynamics) - Exams, Homework, etc.	2006
138	7-10	Iowa State University Chemistry Department - Chemistry 325 (Chemical Thermodynamics) - Lectures and Student Evaluations	2006
141	11	Condensed Matter Physics and Materials Chemistry and Biomolecular Materials Program Review - Proposal Document	2006-2007
143	3	Chemistry Building - information	2006-2008
153	11	Ames Lab - FY2009 Work Authorization System CD rom	2007
143	4-5	Chemistry 325 - materials for exams 3 & 4	2007
143	6-7	Chemistry 325 - materials for lectures, exams 1 & 2	2007
143	8	Chemistry 325 - papers, homework, exams (1 of 2)	2007
144	1	Chemistry 325 - papers, homework, exams (2 of 2)	2007
144	2	Chemistry 576 - exam keys	2007

Box	Folder	Title	Dates
144	3	Chemistry 576 - grade histogram for final, spring '07, correspondence, student evaluations	2007
144	4	Chemistry 576 - lecture notes, 13c-SPMs	2007
144	5	Chemistry 576 - lecture notes, 14c-vibrational spectroscopy	2007
144	6	Chemistry 576 - lecture notes, 15c-SIMS	2007
144	7	Chemistry 576 - lecture notes, 16c-instrumentation	2007
144	8	Chemistry 576 - lecture notes, 18c-core levels	2007
144	9	Chemistry 576 - lecture notes, 19c-XPS	2007
144	10	Chemistry 576 - lecture notes, 20c-AES	2007
144	11	Chemistry 576 - lecture notes, 21c-LEED	2007
144	12	Chemistry 576 - lecture notes; lesson 6	2007
144	13	Chemistry 576 - lecture notes; lesson 7, bc-Ads, examples	2007
144	14	Chemistry 576 - lecture notes; lesson 7, overlayer adsorbate structure	2007
144	15	Chemistry 576 - lecture notes; lesson 8c, adsorbate-adsorbate interactions	2007
144	16	Chemistry 576 - lecture notes; lesson 9c, diffusion	2007
144	17	Chemistry 576 - lecture notes; lesson 10c, gas flux, exposure, simple models	2007
144	18	Chemistry 576 - lecture notes; lesson 11c, adsorption-desorption equilibria	2007
144	19	Chemistry 576 - lecture notes; lesson 12 outline	2007
144	20	Chemistry 576 - lecture notes; lesson 13 intro	2007
141	10	Condensed Matter Physics and Materials Chemistry and Biomolecular Materials Program Review - Notes and Publications	2007
162	5-6	Art in State Buildings Committee - Art for Hach Hall	2007-2008
166	7-8	Ames Laboratory - Travel Committee	2009
167	1-5	Chemistry 324 - lecture notes and exams	2009
169	1-5	Chemistry 325 - lecture notes and exams	2010
175	1	Chemistry 576 - syllabus and exams	2011

Box	Folder	Title	Dates
176	5-6	Chemistry 324 - lecture notes and exams	2011
177	1-2	Chemistry 325 - lecture notes and exams	2012
180	7	Chemistry 576 - lecture notes and exams	2012
182	1-2	Chemistry 324 - lecture notes and exams	2013
182	4	Chemistry 167 - exams, TA information and homework	2013
182	5-7	Chemistry 167 - lecture notes and presentations	2013
183		Chemistry 167 - lecture notes and presentations	2013
188	9	Chemistry 325 - Exams	2014
188	10-11	Chemistry 325 - lecture notes and homework	2014
189	1	Chemistry 325 - homework	2014
189	2-8	Chemistry 325 - lecture notes	2014
191	4	Chemistry 324 - notes and homework	2015
191	5-8	Chemistry 324 - notes	2015
192	1-2	Chemistry 324 - notes	2015
192	3	Chemistry 325 - lecture notes and homework	2015
192	4-6, 10	Chemistry 576 - notes	2015
192	7-9	Chemistry 576 - notes and homework	2015
193	1	Chemistry 576 - notes, exams, and homework	2015
144	21	Chemistry 576 - old homework solutions	undated
138	3	Chem. Dept. Review File for: cy	undated
107	3	<i>Materials Chemistry</i> viewgraphs	undated
103	1	Viewgraphs: fluorocarbon seminar (originals)	undated
103	2	Viewgraphs: lograsso	undated
128	3	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) full-size power point slides	undated
128	4	Iowa State University Chemistry Department - Chemistry 576 (Surface Chemistry) part of the student handouts	undated
128	5	Sue R. Crull's group quiz over 'sociology through active learning'	undated
112	13	Pat Thiel Brochure update (1-1.5 floppy)	undated
121	2	Analysis of TD Spectra	undated

Box	Folder	Title	Dates
121	3	LEED - General	undated
121	4	Metallic Glasses	undated
121	5-6	Surface Preparation-UHV - General	undated
121	7-8	Viewgraphs - General Quasicrystals	undated
134	15	History of some Chemistry Professors	undated
132	1	"Fill it with your dreams" Bag Project	undated
134	17	Quasicrystals - seminars and plans: Shears	undated
134	18	Quasicrystals - seminars and plans: Fischer	undated
134	19	Quasicrystals - seminars and plans: Sordelet	undated
134	20	Quasicrystals - seminars and plans: Thiel	undated
134	21	Quasicrystals - seminars and plans: Cogrosso	undated
134	22	Quasicrystals - seminars and plans: Matt Kramer	undated
168	11	Audiotape - Shechtman, Quasicrystals	undated

Description of series

Series 6 Conferences and Travel 1981-[ongoing]

description: Contains materials gathered from visitors to ISU, group photos from conferences and materials Thiel used for professional presentations.

Container list

Box	Folder	Title	Dates
111	2	Minnesota to Sunol, Ca	1981
17	2	Asilomar	1982
17	1	AVS - Baltimore	1982
125	1	ECOSS4 - Munster	1983
17	4	ICSS - Madrid	1983
17	3	Madison	1983
17	6	Marshal Group visit	1983
17	5	Pfnur, Herbert visit	1983
147	1	Group seminars, B-F	1983-1991

Box	Folder	Title	Dates
147	2	Group seminars, K-W	1983-1991
17	17	Behm, J. visit	1984
17	15	Duncan, Mike visit	1984
17	11	Madey, T.E. visit	1984
17	9	Monsanto	1984
17	8	Physics Electronics	1984
17	18	Potential seminar speakers	1984
17	10	Raman, Talat visit	1984
17	13	Robota, Heinz visit	1984
17	16	Schaeffer, Jurgen visit	1984
17	7	UCB-KSOS	1984
17	14	Yates, John	1984
18	8	AVS - Houston	1985
18	1	Behm, J. visit	1985
18	2	Broer, Ria visit	1985
18	11	Dow Corning visit	1985
17	12	Hair, M. visit	1985
18	3	Hoffman, Fritz visit	1985
18	5	Imbihl, Ronald visit	1985
18	6	Madey, Ted visit	1985
18	4	Moritz, Wolfgang visit	1985
18	10	Physical Electronics - Milwaukee	1985
18	7	San Jose	1985
18	9	Upcoming	1985
18	12	Electron Energy Loss Spectroscopy seminar	1985-1986
147	3	Group notes on <i>Surface Science</i> technologies	1985-1990
19	12	3M visit	1986
19	8	ACS - Anaheim	1986
19	7	Advanced RED, Inc.	1986
19	9	AVS - Baltimore	1986
18	16	Barry, Coleen visit	1986

Box	Folder	Title	Dates
19	5	Cardillo, Mark J.	1986
19	13	ECOSS	1986
19	3	Engel, Tom visit	1986
18	13	Felter, Tom visit	1986
19	14	Ford	1986
19	15	German exchange program	1986
19	10	Gordon Research Conference	1986
19	4	Graham, George visit	1986
19	2	Madey, T.E. visit	1986
151	2	Manipulator seminar	1986
18	14	Norton, Peter visit	1986
19	6	NSF-PYI Coronado, CO	1986
18	15	Palmberg, Paul visit	1986
19	11	Polaroid and GM	1986
19	1	Woodin, Dick visit	1986
151	1	Group handouts and seminar schedules	1986-1999
21	3	ACS - New Orleans	1987
20	7	ACS - Rochester	1987
20	3	Amsterdam	1987
20	5	AVS - Anaheim	1987
21	2	Dow and NBS	1987
20	9	ECOSS-9	1987
21	1	Electrochemical Society	1987
20	2	Estrup, Peder visit	1987
20	8	Harvard	1987
20	4	ICSOSS-2 manuscript	1987
20	6	Lake Geneva workshop	1987
20	1	Trenary, Mike visit	1987
22	2	ACS - Anaheim	1988
21	8	ACS - Cincinnati	1988
21	4	Arizona State	1988

Box	Folder	Title	Dates
21	6	Australia	1988
22	1	AVS - Atlanta	1988
22	6	Cryer, Sylvia visit	1988
21	5	Detroit	1988
22	8	Fisher, Galen visit	1988
21	11	Gordon Research Conference	1988
22	5	Johnson, Allan visit	1988
22	3	Lawrence Berkeley Laboratory	1988
21	10	Macalester and St. Johns	1988
22	4	Mori, Shigeyushi visit	1988
21	12	MRS - Boston	1988
21	7	Nova Scotia	1988
22	7	Roelof, Lyle visit	1988
22	9	Ross, Phil visit	1988
21	9	University of Minnesota	1988
23	3	ACS - Grinnell	1989
22	13	ACS - Washington	1989
23	10	AVS - Boston	1989
23	5	CMOSS manuscript	1989
22	10	Elswirth, Markus visit	1989
23	11	Ft. Lauderdale	1989
23	2	Grinnell College	1989
22	16	HREM Workshop - Arizona	1989
23	8	Iowa State University Foreign Travel grant - Cologne Germany	1989
23	9	Iowa State University Foreign Travel grant - Cologne Germany	1989
23	6	Midland, MI	1989
22	14	North Dakota	1989
106	2	Presentation to Department of Energy	1989
22	11	Taylor, Tom visit	1989

Box	Folder	Title	Dates
23	1	University of California - Berkeley	1989
23	7	University of Dayton	1989
22	15	University of Texas at Austin/Texas A&M	1989
23	4	Washington, Rutgers, Albuquerque	1989
22	12	Williams, Ellen	1989
24	6	ACS-PRF - Phoenix	1990
24	2	Argonne Laboratory	1990
24	1	AVS - Toronto	1990
24	5	AVS Oak Ridge (Surface Science)	1990
24	7	Behm, Jurgen visit	1990
24	4	Canada	1990
24	8	Chang, Shirley visit	1990
25	2	Direct Methanol/Air Fuel Workshop	1990
24	15	DOE catalysts and surface science meeting	1990
24	10	Ertl, G. visit	1990
24	11	Fu-Kwo-Mew visit	1990
106	3	Germantown presentation	1990
24	13	ICSOS - Milwaukee	1990
24	3	Milwaukee	1990
24	16	NASA - Cleveland	1990
24	9	Richmond, Geraldine visit	1990
25	1	Rutgers	1990
24	12	Stanford materials research laboratory	1990
24	14	Toronto	1990
26	1-2	AVS Activities (Surface Science Division)	1990-1992
27	7	ACS - Atlanta	1991
25	4	ACS - Indianapolis	1991
27	5	ACS-PRF - San Diego	1991
28	1	ACS-PRF - Washington D.C	1991
27	8	Argonne and Battelle	1991
25	7	AVS - Seattle	1991

Box	Folder	Title	Dates
112	4	Berlin Diskettes (8 - 1.5floppy disks)	1991
27	4	Cornell University	1991
28	5	DOE Conference on Surface Studies Livermore Laboratory	1991
27	10	ECOSS - Stockholm	1991
25	6	ECOSS - Stockholm	1991
106	4	Germantown presentation	1991
25	3	Gordon Research Conference	1991
27	3	Gordon Research Conference	1991
28	6	Gottingen	1991
25	5	Iowa State University faculty improvement leave receipts	1991
28	3	Julich	1991
27	2	Kellog, Gary visit	1991
27	6	Pfizer	1991
28	2	SCOSS - Stockholm	1991
27	9	University of Minnesota	1991
28	4	University of Munich	1991
28	8	Iowa State University Faculty Improvement Leave Berlin, Germany	1991-1992
29	1	Iowa State University Faculty Improvement Leave Berlin, Germany	1991-1992
27	1	National Science Foundation	1991-1992
28	7	National Science Foundation	1991-1992
148	1	Group seminars, B-Z, outside speakers	1991-1994
29	3	ACS - San Francisco	1992
29	14	ACS-PRF - Washington D.C.	1992
29	5	AVS - Chicago	1992
29	12	AVS - Chicago	1992
29	7	Bates, Frank visit	1992
29	8	Blackburn, Tom visit	1992
29	4	British Columbia	1992

Box	Folder	Title	Dates
29	13	Diffusion and Nucleation Workshop Santa Fe, NM	1992
29	2	DOE - Germantown	1992
30	1	DOE - Oak Ridge	1992
30	2	DOE proposal collaboration with Yale University	1992
29	10	Drakova, Dejana visit	1992
106	5	Germantown presentation	1992
29	6	National Academy of Sciences - Irvine	1992
30	3	National Science Foundation	1992
29	11	University of Nebraska at Lincoln	1992
29	9	Wagner, Fred visit	1992
150	7	Group seminars	1992-1998
31	4	ACS - Chicago	1993
31	2	AVS - Orlando	1993
31	5	AVS abstract selection	1993
70	1	AVS Board of Directors, minutes and papers	1993
31	8	DOE spring review	1993
106	6	Germantown presentation	1993
31	7	Heauheau-Kona, Hawai'i	1993
31	3	National Science Foundation	1993
31	6	National Science Foundation	1993
31	9	Penn State	1993
31	1	Stockholm, Sweden	1993
70	12	AVS abstract selection committee meeting	1994
70	5	AVS Board of Directors meeting	1994
70	8	AVS Board of Directors meeting	1994
70	10	AVS Board of Directors meeting	1994
70	13	AVS Board of Directors meeting	1994
71	1-2	AVS Board of Directors meeting	1994
71	4-5	AVS Board of Directors meeting	1994

Box	Folder	Title	Dates
70	11	AVS Board of Directors meeting travel receipts	1994
71	3	AVS Board of Directors meeting, committee reports	1994
71	6	AVS Board of Directors meeting, committee reports	1994
70	6	AVS meeting	1994
70	2	Brookhaven trip	1994
70	4	DOE spring review	1994
70	15	E.O. Lawrence meeting	1994
106	7	Germantown presentation	1994
70	14	Gordon	1994
32	1	Gordon Research Conference literature	1994
32	2	Gordon Research Conference program notes	1994
70	7	LBL/AVS seminar and meeting	1994
70	3	Ulm, Germany	1994
70	9	University of Wisconsin- Eau Claire, presentation	1994
36	4-5	AVS Symposium, program chair activities	1994-1995
36b	1	AVS Symposium, program chair activities	1994-1995
71	16	AVS abstract selection committee meeting	1995
71	9	AVS Board of Directors meeting	1995
71	15	AVS Board of Directors meeting	1995
72	5	AVS Board of Directors meeting	1995
71	7	AVS Board of Directors meeting, committee reports	1995
72	1	AVS Board of Directors meeting, committee reports and agendas	1995
35	2	AVS Symposium, abstracts #0-445	1995
36	2	AVS Symposium, abstracts #1113-1256	1995
35	3	AVS Symposium, abstracts #446-596	1995
35	4	AVS Symposium, abstracts #597-862	1995
36	1	AVS Symposium, abstracts #863-1112	1995
36b	2	AVS Symposium, final report	1995
36	3	AVS Symposium, program books	1995

Box	Folder	Title	Dates
35	1	AVS Symposium, program chair activities, abstract selection	1995
34	3	AVS Symposium, program chair activities, correspondence	1995
34	4	AVS Symposium, program chair activities, education	1995
32	3	AVS Symposium, program chair activities, general, plenary and local arrangements	1995
33	3	AVS Symposium, program chair activities, marketing and vendors in Chicago	1995
34	1	AVS Symposium, program chair activities, meeting minutes	1995
33	1	AVS Symposium, program chair activities, program notes	1995
34	2	AVS Symposium, program chair activities, programs	1995
33	2	AVS Symposium, program chair activities, session layouts	1995
71	12	AVS-LAC meeting	1995
72	3	CRCM Metal and Semiconductor Clusters Conference	1995
71	14	Germantown presentation	1995
106	8	Germantown presentation	1995
71	10	Germantown trip	1995
72	2	Materials chemistry retreat	1995
71	13	MIT seminar	1995
71	8	Union carbide trip	1995
71	11	University of Missouri - Columbia trip	1995
72	4	University of Wisconsin Seminar trip	1995
69	3	Video tapes (3-½ inch) of the 42 nd National Symposium of the AVS	1995
148	2	Quasicrystal group notes - data, research	1995-1996
72	6	Quasicrystal viewgraphs	1995-1996
148	3-4	Quasicrystal seminars - materials for seminars	1995-1999
73	7	Alcoa Chapter of Sigma Xi, annual meeting	1996
73	4	American Physical Society meeting in St Louis, MO	1996
73	10	American Vacuum Society Symposium, Philadelphia, PA	1996

Box	Folder	Title	Dates
73	3	Germantown	1996
73	8	Gordon Research Conference, Plymouth, NH	1996
151	3-5	Group meetings and research notes	1996
73	9	Hildesheim, German	1996
72	7-8	Quasicrystal Conference	1996
73	1-2	Quasicrystal Conference	1996
178	6	Quasicrystal Conference, Ames - Cartoon Caricatures	1996
179	1-17	Quasicrystal Conference, Ames - Audio Recordings (17 audio cassettes)	1996
72	9	Quasicrystal materials	1996
73	5	St. Olaf	1996
74	1-2	Stanford NSF Review	1996
73	6	University of Illinois, Chicago seminar	1996
148	5	Quasicrystal group notes - paper, correspondence, information	1996-1997
74	8	6 th International Conference on Quasicrystals, Tokyo, Japan	1997
74	6	American Chemical Society, San Francisco, CA	1997
74	5	American Physical Society meeting	1997
74	7	American Vacuum Society Trustees, Chicago, IL	1997
75	1	Basic Energy Services Advisory Committee meeting, Gaithersburg, MD	1997
75	2	California Institute of Technology	1997
72	3	DOE/NSF Washington, DC area	1997
74	4	Gordon Research Conference, Ventura, CA	1997
151	6-9	Group meetings and research notes	1997
152	1	Group meetings and research notes	1997
75	4	Lawrence Berkeley National Laboratory	1997
75	5	Macalester College - Minnesota and Materials Research Society - Boston	1997
75	3	State University of New York - Buffalo	1997
152	2	Group meetings and research notes	1997-1998

Box	Folder	Title	Dates
149	1	Quasicrystal group notes - correspondence, information	1997-1998
76	1	Symposium: Materials Research Society, Boston, MA, booklet, correspondence, call for papers	1997-1998
76	7	American Physical Society/American Vacuum Society, Ohio	1998
75	12	American Vacuum Society meeting, Chicago, IL	1998
75	7	Basic Energy Sciences Advisory Committee meeting, Gaithersburg, MD	1998
76	3-4	Basic Energy Sciences Advisory Committee meeting, Gaithersburg, MD	1998
79	7	Basic Energy Sciences Advisory Committee meeting, Gaithersburg, MD	1998
75	11	DOE review meeting, Dulles, Virginia	1998
152	3	Group meetings and research notes	1998
75	10	Madison, Wisconsin	1998
75	9	Manhattan, Kansas	1998
76	8	Materials Research Society, fall meeting arrangements	1998
76	5	National Science Foundation, Colorado	1998
76	2	Princeton viewgraphs	1998
75	8	Quasicrystals in Strasburg	1998
75	6	Rutgers University	1998
77	1	Symposium: Materials Research Society, Boston, MA, abstracts	1998
77	3	Symposium: Materials Research Society, Boston, MA, arrangements	1998
77	4	Symposium: Materials Research Society, Boston, MA, organizer handbook	1998
77	2	Symposium: Materials Research Society, Boston, MA, program and correspondence	1998
75	13	Symyx/ Sandia National Laboratories, Tahoe Conference	1998
76	6	University of Missouri - St. Louis	1998
152	4	Group meetings and research notes	1998-1999
150	2-4	Quasicrystal meeting notes - correspondence, research, information, photographs (3- 8x10" color prints)	1998-2002

Box	Folder	Title	Dates
79	1	6 th International Conference on the Structure of Surfaces, Vancouver, Canada	1999
79	2	7 th International Conference on Quasicrystals, Stuttgart, Germany	1999
78	4	American Vacuum Society meeting, Chicago, IL	1999
78	5-7	France	1999
77	6-7	Gordon Research Conference, Ventura, CA	1999
152	5	Group meetings and research notes	1999
79	5	<i>Gustavus Adolphus</i>	1999
79	4	<i>How to Handle Difficult People</i> , Des Moines, IA	1999
79	3	Humboldt Colloquium, Chicago, IL	1999
79	6	Illinois	1999
77	5	Paul Bloom quasicrystal polymer	1999
78	2	Penn State	1999
129	2	Program from 7 th International Conference on Quasicrystals	1999
106	9	<i>Studies of Thin Metal Film Growth using UHV Scanning Tunneling Microscope</i>	1999
78	3	University of Illinois - Chicago	1999
78	1	Urbana-Champaign	1999
106	11	Ag(100) viewgraphs	1999-2000
152	6	Group meetings and research notes	1999-2000
106	10	Low Energy Electron Diffraction (LEED) overheads	1999-2000
150	1	Quasicrystal group notes - correspondence, research, articles (2 of 2)	1999-2002
149	11	Quasicrystal group notes - correspondence, research, information (1 of 2)	1999-2002
106	12	Ag talk, Boston	2000
79	9	American Chemical Society Symposium, organizational materials	2000
79	10	American Chemical Society, San Francisco	2000
136	7-8	AVS Meeting, Boston	2000

Box	Folder	Title	Dates
79	8	Basic Energy Sciences Advisory Committee meeting, Gaithersburg, MD	2000
137	3	Boston	2000
137	6	Gaithersburg, Maryland	2000
152	7	Group meetings and research notes	2000
137	1-2	Japan	2000
115	23	Japan (1 - 3.5 floppy disk)	2000
136	5	MRS Boston	2000
106	13	MRS talk	2000
137	4-5	Nancy, France	2000
136	10	Newark, NJ Corky & Maria Caldwell	2000
79	11	San Luis Symposium, Argentina	2000
137	7-8	Spring MRS, San Francisco	2000
136	9	Washington NSF - STC Review Panel	2000
152	8	Group meetings and research notes	2000-2001
136	4	3M Trip	2001
128	16	Abstracts from Quasicrystals - Sendai, Japan	2001
136	3	APS - Seattle	2001
136	6	Argonne, IL	2001
115	21	Boston (1 - 3.5 floppy disk)	2001
135	8	Chicago-Midwest Chem Chairs	2001
115	22	England (1 - 3.5 floppy disk)	2001
114	9	Germantown	2001
135	9	INEL	2001
135	3	IRCAM 2001, Aug 26-30 Cancun	2001
114	15	IUVSTA 15 th - San Francisco, California	2001
114	16-17	IUVSTA 15 th - San Francisco, California Publications	2001
114	20	MASUA and Lawrence Berkeley National Laboratory (LBNL)	2001
114	19	NIH Biomaterials review - Washington, D.C	2001

Box	Folder	Title	Dates
135	5-6	Paris, France	2001
129	3	Program from Colloque Annuel Groupement Quasicristaux	2001
136	1-2	QC Surfaces - Liverpool, UK	2001
114	22-23	Quasicrystals - Sendai	2001
135	7	Seminar in Paris	2001
135	4	VII International Conference on Advance Materials ICAM 2001 Program	2001
153	1	Group meetings and research notes	2001-2002
152	9	Group meetings and research notes	2001-2003
129	1	Abstracts from Eighth International Conference on Quasicrystals	2002
114	2	AVS 49 th International symposium	2002
114	3	AVS 49 th International symposium publications	2002
117	7	Bangal (1 CD-R disk)	2002
114	5	Colorado	2002
114	6	Concordia College - Minnesota	2002
114	8	EMRS - Strasbourg	2002
114	18	Forensic Science at Iowa State University	2002
114	12	ICQ8, Bangalore, India	2002
114	13	Illinois - MWSSC	2002
114	24	Midwest chemistry chairs, Chicago	2002
114	30	Nancy, France - Notebook	2002
114	7	Nancy, France (3 - 3x5 color) (1 CD-R)	2002
114	14	Trofaiach, Austria	2002
114	25	Tulane, New Orleans	2002
114	28	University of Pennsylvania	2002
114	29	Vaccine	2002
106	14	O + Ag (100) and Forensics presentations (8 CD's)	2002-2003
114	1	Argonne - Catalysis workshop	2003
114	4	Colorado	2003

Box	Folder	Title	Dates
129	5	Germantown, MD - DOE (1 CD-ROM)	2003
114	10	Germantown, MD with Surya Mallapragada	2003
129	2-3	Germany and Czech Republic (1 CD-ROM)	2003
114	11	Gordon research conference - Ventura, Canada	2003
153	2	Group meetings and research notes	2003
129	1	Liverpool, United Kingdom - ISSC	2003
129	8	Materials Research Society, Boston (2 CD-ROMs)	2003
128	15	Nancy, France (1 CD-ROM)	2003
114	21	QC workshop - Taiwan	2003
129	6-7	Sandia National Laboratory (2 CD-ROMs)	2003
129	4	The Netherlands and Germany (1 CD-ROM)	2003
114	26	University of Colorado - Boulder (1 CD-R)	2003
114	27	University of Missouri - Columbia	2003
153	3	Group meetings and research notes	2003-2004
131	1	ICQ9 Files-2 nd part: Budgets & Funding	2003-2004
131	8	Pat Thiel's scripts & remarks	2003-2005
129	16	AVS - Anaheim, California	2004
129	11	Budapest, Hungary (2 CD-ROMs)	2004
123	3	Dan Shechtman Visit	2004
153	4	Group meetings and research notes	2004
129	9	<i>Institute of Physics</i> Editorial Board Meeting, London	2004
123	4	OMB Visit	2004
129	14	Purdue University (1 CD-ROM)	2004
129	12	Rutgers University (4 CD-ROMs)	2004
129	13	University of Minnesota	2004
129	15	University of Missouri, Columbia	2004
129	10	University of North Texas	2004
130	10	ICQ9 Files-2 nd Part: Meetings w/Dan, Cynthia, Stacy	2004-05
155	6-8	National Science Foundation, Committee of Visitors: Travel plans and conference materials	2004-2007
178	5	Asia Trip Photographs (35 color)	2005

Box	Folder	Title	Dates
131	4	9th International Conference on Quasicrystals: Program and Abstracts	2005
129	17-18	Argonne National Laboratory (2 CD-ROMs)	2005
141	1	AVS Meeting, Boston	2005
140	9	Berkeley, California	2005
131	11	Brochures, advertising & publicity	2005
140	8	Concordia College, Minnesota (1- 4x6 color photograph)	2005
141	2-3	France	2005
185	8	France - Honorary Doctorate (73- 4x6 color photographs)	2005
131	10	ICQ9 Discussion Session	2005
131	2	ICQ9 Files-2 nd Part: Dubois Award	2005
130	11	ICQ9 Files-2 nd Part: Miscellaneous	2005
131	3	ICQ9 Files-2 nd Part: Proceedings & 3 CD's	2005
131	6	International Conference on Quasicrystals held in Ames: IAB - Monday luncheon & follow-up	2005
131	5	International Conference on Quasicrystals held in Ames: Speakers, posters, decisions...	2005
140	2-3	Jeju, Korea - International Conference on Rapidly Quenched and Metastable Materials	2005
140	7	LBNL (Lawrence Berkeley National Laboratory)	2005
140	4	London, England	2005
140	6	London, England - travel arrangements	2005
131	7	Proposal by Dan Knassim to hold the 11 th Conference on Quasicrystals in Israel	2005
131	12	Thiel 2005 CD#2 Backup: Contains Trips '05, Viewgraphs Non-Trip	2005
129	19-21	University of Illinois	2005
162	3-4	Group meetings and research notes	2005-2007
141	6	Colorado family vacation	2006
155	4	DOE and Ames Laboratory: General Japan and United States flights	2006
141	4	England	2006
141	5	Grinnell College, Iowa	2006

Box	Folder	Title	Dates
154	5	Hokkaido University, Sapporo, Japan	2006
155	2-3	Japan	2006
154	8	Japan (1 of 2)	2006
155	1	Japan (2 of 2)	2006
154	4	National Institute for Materials Science, Japan	2006
154	6	Tohoku University, Sendai, Japan	2006
141	7	University of Northern Iowa, Cedar Falls, Iowa	2006
154	3	University of Tokyo, Japan	2006
154	7	Xi'an and Beijing, China	2006
154	2	Zao, Japan: Aperiodic '06	2006
155	5	American Association for the Advancement of Science, San Francisco	2006-2007
156	2	Gordon Research Conference	2006-2007
156	3	University of Nebraska, Lincoln	2006-2007
156	5	Ames, Iowa - Computational Materials Science Network	2007
156	6-7	Argonne National Laboratory (1 CD-ROM)	2007
154	1	Colorado vacation	2007
157	1-3	Israel (2 CD-ROMs)	2007
156	1	London, England (45- 4x6" color photographs)	2007
153	12-13	Santorini, Greece	2007
157	4-6	Slovenia (1 CD-ROM)	2007
178	1-3	Group meetings and research notes	2007-2008
158	1	Cambridge, England	2008
158	2	Germantown, Maryland	2008
158	6	Pacific Northwest National Laboratory, Richland, Washington	2008
158	3	Texas A&M University, College Station	2008
158	4	University of Texas, Austin	2008
158	5	University of Texas, Austin - Materials for S/Ag Seminar	2008
165	1	AVS, Boston	2008
165	5	Dresden and ULM, Germany	2008

Box	Folder	Title	Dates
164	6-7	ICQ10, Switzerland	2008
164	5	Germantown, BNL, Cincinnati	2008
164	4	Colorado vacation	2008
164	3	National Science and Technology Summit, Oak Ridge, Tennessee	2008
164	2	Washington, D.C., Germantown	2008
164	1	Gatlinburg, Tennessee	2008
163	15	Washington, D.C.	2008
163	14	Washington, D.C. (November 23-26)	2009
163	13	Washington, D.C. (December 18-20)	2009
163	12	Ladysmith, Wisconsin	2009
163	11	Washington, D.C. (April 14-15)	2009
163	10	Washington, D.C. (April 27-29)	2009
163	9	Materials Research Science and Engineering Center, University of Maryland	2009
163	8	National Renewable Energy Laboratory	2009
163	7	Colorado	2009
163	6	American Chemical Society National Meeting, Washington, D.C.	2009
163	5	Minneapolis	2009
163	4	Computational Materials Science Network, Denver	2009
163	3	Synthesis and Processing Sciences Contractors Meetings, Warrenton, Virginia	2009
169	8	Synthesis and Processing Sciences Contractors Meetings, Warrenton, Virginia - Proceedings	2009
163	2	Argonne National Laboratory and College for Amanda	2009
163	1	Iowa City, Iowa	2009
165	2-3	ECOSS, Italy	2009
165	4	Europe vacation	2009
172	1-3	Adamson Award and American Chemical Society (ACS) Trip (March)	2009-2010
171	6	North Dakota State (includes 1 CD)	2010

Box	Folder	Title	Dates
171	7	Chemical Sciences Roundtable Workshop, Washington, D.C. (May)	2010
171	8	Chemical Sciences Roundtable Workshop, Washington, D.C. (February)	2010
172	4-7	Asia Trip (June)	2010
173	1	Colorado Family Vacation	2010
173	2	University of Wisconsin, Physics Department Colloquia	2010
173	3-5	University of Nebraska-Lincoln	2010
173	6-7	Adler Award and American Physical Society (APS) Trip (March)	2010
174	8	Chemical Sciences Roundtable (CSR), Washington, D.C., Boston (October)	2010
174	9	Chicago (for Australian passports)	2010
174	10	Massachusetts Institute of Technology (MIT)	2010
174	11	Switzerland and France	2010
175	2	Argonne National Laboratory (May)	2011
175	3	University of Wisconsin	2011
175	4	Arizona State University (April) (4- 4x6" color photographs)	2011
175	5	University of South Carolina (March)	2011
175	6	University of North Dakota (March)	2011
175	7	Chemical Sciences Roundtable (CSR) - canceled (February)	2011
175	8	Computational Materials and Chemical Science Network (CMCSN), Dallas (January)	2011
175	14	Minneapolis, Presidential Search Committee (includes certificate from Board of Regents)	2011
175	15	Gordon Research Conferences, University of New England (July)	2011
176	1	Ireland Family Vacation (July)	2011
176	2	International Conference on the Structure of Surfaces, Hong Kong (August)	2011
176	3	EPSCoR Review, Lincoln, Nebraska (August)	2011

Box	Folder	Title	Dates
176	4	Chemical Sciences Roundtable (CSR), Washington, D.C. (September)	2011
176	7-8	Nobel Prize Banquet, Stockholm, Sweden	2011
177	3	National Science Foundation (November)	2011
177	4	Carnegie Mellon University (January)	2012
177	5	Chemical Sciences Roundtable (CSR), Washington, D.C. (January)	2012
177	6	American Physical Society (APS), Boston (March)	2012
177	7	University of Maryland (March)	2012
177	8	Cornell and Columbia Universities - School Visits (April)	2012
177	9	University of Florida (April)	2012
177	10	Chemical Sciences Roundtable (CSR), Washington, D.C. (May)	2012
177	11	Quasicrystal Conference, Taiwan (May)	2012
178	1	Quasicrystal Conference, Taiwan (May)	2012
180	8	Bermuda Vacation (July)	2012
180	9	Materials Research Society Fall Meeting, Boston	2012
181	1	New York to Washington, D.C. (August) - Planning Materials	2012
181	2	New York to Washington, D.C. (August) - New York City Sightseeing	2012
181	3	New York to Washington, D.C. (August) - Cornell and Ithaca	2012
181	4-7	New York to Washington, D.C. (August) - Washington D.C., Department of Energy Review	2012
181	8	Asperiodic - Australia	2012
181	9	Chemical Sciences Roundtable (CSR), Washington, D.C. (September)	2012
183	5-6	Workshop on Undergraduate Chemistry Education - Washington D.C.	2013
184	2	American Chemical Society - New Orleans	2013
184	3	Alaska and San Diego	2013
184	4	Anderson Cancer Center, Houston Texas	2013

Box	Folder	Title	Dates
184	5	AVS Meeting, Long Beach, California	2013
184	6	U.S. Department of Energy, Washington D.C.	2013
184	7-8	Florida Institute of Technology, Melbourne, Florida	2013
184	9	ICQ12 (International Conference on Quasicrystals), Poland	2013
185	1	International Vacuum Congress 19, Paris, France	2013
185	2	6 th International Workshop on Surface Physics, Warsaw	2013
185	3	Korba Retirement, Minneapolis-St. Paul	2013
185	4	Macalester College	2013
185	5	National Science Foundation Review, Oregon	2013
185	6	RoboSub competition, San Diego (Thiel's daughter competing on the Cornell University team)	2013
186	5	Lawrence Berkeley National Laboratory (LBNL) Proposal and Papers - Program and Agenda (March)	2014
186	6	LBNL Proposal and Papers - Program (March)	2014
186	7	LBNL Proposal and Papers - Catalysis Research Program (March)	2014
186	8	LBNL Proposal and Papers - Catalysis Research Program Selected Publications (March)	2014
186	9	LBNL Proposal and Papers - Catalysis Research Program Selected Publications (March)	2014
187	1	APS - JCP, Denver (March)	2014
187	2	CSR and MIT, D.C. (May)	2014
187	3	University of South Florida (April)	2014
187	4	LBNL and Oregon	2014
187	5	Argonne	2014
187	6	Argonne - Session 1	2014
187	7	Argonne - Session 2	2014
187	8	Argonne - Session 3A	2014
187	9	Argonne - Session 3B	2014
187	10	Argonne - Session 4A	2014
187	11	Argonne - Session 4B	2014

Box	Folder	Title	Dates
187	12	Argonne - Session 5	2014
187	13	Austin (May)	2014
187	14	MIT (June)	2014
187	15	Albuquerque - Ellen (June)	2014
187	16	74th Physical Electronics Conference (PEC) - University of Wisconsin (June)	2014
187	17	74th PEC - University of Wisconsin (June)	2014
187	18	YMCA, Colorado (July)	2014
188	1	Mesoscale Chemistry: A Workshop of the Chemical Sciences Roundtable, Baton Rouge (July - August)	2014
188	2	73rd IUVESTA Workshop, Austria (September)	2014
188	3	73rd IUVESTA Workshop, Austria (September)	2014
188	4	MU - Columbia, Missouri (September)	2014
188	5	CSR and AVS (November)	2014
188	6	CSR and AVS (November)	2014
188	7	CSR and AVS (November)	2014
188	8	Baton Rouge (November)	2014
189	13	Committee of Visitors (COV) - Overview and Proposal	2012-2015
190	1	DOE Material Sciences and Engineering (MSE) COV Info	2013-2015
190	2	Asilomar (January)	2015
190	3	Journal of Chemical Physics (JCP) - Denver (March)	2015
190	4	Weinberg - Fest	2015
190	5	University of Wisconsin - La Crosse (April)	2015
190	6	AVS - San Diego (April)	2015
190	7	Chemical Sciences Roundtable - D.C. (May)	2015
190	8	COACH Workshops (June)	2015
190	9	Cornell - Family Vacation (June)	2015
190	10	Colorado - Family Vacation (July)	2015
190	11	Harvard - EFRC (May)	2015
190	12	International Workshop on Surface Physics (IWSP) - Poland (June)	2015

Box	Folder	Title	Dates
190	13	International Workshop on Surface Physics (IWSP) - Poland (June)	2015
190	14	National Science Foundation (NSF) - COV and Cornell (September)	2015
191	1	AVS - San Jose (October)	2015
191	2	AVS - San Jose Technical Program (October)	2015
191	3	Argonne - COACH (November)	2015
194	4	Weinberg Party	2015
194	5	J.T. Yates Jr. Materials - Related to W.H. Weinberg	1961, undated
106	15	<i>Absorbate Effects on Film Evolution Homoepitaxy On Ag (100)</i>	undated
106	16	Ag Viewgraphs From Recent Seminars	undated
106	18	Ag/Ag (100) And QC Diffraction Slides (67 Color Slides)	undated
106	17	<i>Cluster Diffusion And Coarsening In Ag Films On Ag(100)</i> (11 Color Slides)	undated
106	19	Summary Of Recent Studies Of Activation Barriers For Terrace Diffusion In Metal/Metal (100) Systems	undated
Tube shelf		Poster: "Structure of and Molecular Adsorption on the Surfaces of the $d\text{-Al}_{72}\text{Ni}_{11}\text{Co}_{17}$ and $i\text{-Al}_{70}\text{Pd}_{21}\text{Mn}_9$ Quasicrystals"	undated
Tube shelf		Poster: "Traps Sites and Quantum Size Effects on Nucleation and Growth of Thin Metallic Films on Quasicrystal Surfaces"	undated
Tube shelf		Poster: "Quantum Size Effects in Metal Films Grown on Quasicrystalline Substrates"	undated
Tube shelf		Poster: "Water-Induced Instability of $\text{Al}_2\text{O}_3/\text{Ni}_3\text{Al}(110)$ and $\text{Al}_2\text{O}_3/\text{Ni}_3\text{Al}(111)$ Thin Films"	undated
Tube shelf		Poster: "Surface Structures of Crystalline Phases Related to Quasicrystals"	undated
Tube shelf		Poster: "Noble Tribological Properties of Decagonal Al-Ni-Co Quasicrystals"	undated
Tube shelf		Poster: "Growth of Metallic Films on Quasicrystalline Surfaces"	undated

Box	Folder	Title	Dates
Tube shelf		Poster: "Effect of Surface Structure on the Growth of Ag Nano Islands on a Twofold Surface of a Decagonal Al-Cu-Co Quasicrystal"	undated
Tube shelf		Poster: "Role of Surface Structure on Thin Film Nucleation on Quasicrystal Surfaces"	undated
Tube shelf		Poster: "Office of Basic Energy Sciences, Periodical Table of Scientific Discovery"	undated
Tube shelf		Poster: "Quasi-Collaborations: A Compilation of On-going Collaborations between Ames Laboratory and External Groups"	undated
Tube shelf		Poster: "Women in Science and Technology Month," Ames Laboratory	2010

Description of series

Series 7 Grants 1979-2004

description: Contains awards, grant finances, grant proposals, grant renewals, and reports.

Container list

Box	Folder	Title	Dates
37	4	Applications for memberships and fellowships	1979-1980
87	1	Presidential Young Investigator Award, CHE-8451317- applications and award	1983-1985
37	5	Research corporation grant	1983-1986
37	6	Alfred P. Sloan Foundation report	1984
37	8	Finnemore grant	1984
37	7	Iowa State University research grant	1984
38	1	Matching grants	1984-1988
38	2	National Science Foundation Presidential Young Investigators Award	1985
38	3	Grant proposals and correspondence	1985-1986
38	4	Grant proposal and correspondence	1986

Box	Folder	Title	Dates
38	5	National Science Foundation Presidential Young Investigators Award	1986
38	6	National Science Foundation: <i>Measuring Scientific Output: A Collective Biography Approach</i>	1986
87	2	NSF grant - finances	1986-1987
87	3	NSF grant	1986-1988
87	4	NSF grant, German collaboration	1986-1988
38	7	Correspondence with Ford research project	1986-1989
87	5	NSF grant, finances	1986-1990
87	6	Dreyfus Teacher-Scholar Grant	1986-1992
87	7	NSF grant, German collaboration	1986-1995
38	9	Iowa State University foreign travel grant	1987
38	8	Iowa State University research grant	1987
38	10	Grant proposals and correspondence	1987-1988
87	8	3M analytical work	1987-1989
88	1	Presidential Young Investigator Award, CHE-8451317, correspondence	1987-1990
88	2	Dreyfus Teacher-Scholar Grant, accounting	1987-1997
88	3	Department of Chemistry, unrestricted expense account	1987-1998
88	4	3M meeting notes	1988-1989
38	11	American Chemical Society - petroleum research fund proposal	1988-1989
38	12	Grant proposals and correspondence	1988-1989
88	5	3M DIY products	1988-1991
88	6	3M funding proposal and agreement	1988-1992
39	1	American Chemical Society - petroleum research council proposal	1988-1992
39	2	Grant proposals and correspondence	1989
39	3	National Science Foundation proposal, Non-equilibrium Structure of Metal Films	1989
39	4-5	National Science Foundation proposal, Non-equilibrium Structure of Metal Films	1989-1990
39	6	Research and development exploratory funds	1989-1991

Box	Folder	Title	Dates
88	7	NSF grant, finances	1989-1992
89	1	3M analytical labs, publicity	1989-1995
89	9	NSF grant: Nucleation, Growth and Structure of Metal on Metal Films	1989-1995
89	2	3M analytical labs, accounting	1989-1998
89	4	3M literature searches	1990
89	3	3M report	1990
39	7	National Science Foundation proposal, Non-equilibrium Structure of Metal Films	1990
39	8	National Science Foundation proposal, Non-equilibrium Structure of Metal Films, accounting	1990-1994
39	9	National Science Foundation proposal, Non-equilibrium Structure of Metal Films, paperwork	1991-1992
39b	1	National Science Foundation grant: U.S. - German Cooperative Research: Growth and Morphology in a Model Thin Film System	1991-1993
89	5	FAWSE publicity	1992
39b	2-3	IBM/NASA proposal: Surface Stability of Fluorinated Ethers in Real and Model Systems	1992
107	4	Interprogrammatic equipment proposals	1992
89	6	3M research report: <i>Silylation Reactions at indium-tin-oxide Surfaces</i>	1993
89	7-8	NSF grant: Nucleation, Growth and Structure of Metal on Metal Films	1993-1995
89	10	Ames Laboratory proposal, properties of quasicrystals	1994
90	1-3	Ames Laboratory proposal, properties of quasicrystals	1994
90	4	Petroleum research fund progress report	1994
90	5	NSF grant	1994-1996
90	6	NSF grant, accounting	1994-1996
90	7	CRDF proposal (unsuccessful)	1996
90	8	Exxon grant, 400-61-29	1996-1997
90	9	NSF- FAWSE grant statements	1996-1998
107	5	NSF grant 420-25-57 renewal	1996-1998

Box	Folder	Title	Dates
91	4	NSF- thin metal films, 4020-25-57	1996-1998
91	1-3	Proposal: New Energy and Industrial Technology Development Organization [NEDO]	1996-1998
91	7	Exxon	1997
91	8-9	MRSEC proposal, unsuccessful	1997
92	1	MRSEC proposal, unsuccessful	1997
91	6	NSF DAAD proposal (denied 1998)	1997
91	5	Proposal: Materials Research Science and Engineering Laboratory [MRSEC]	1997
107	8	<i>Surface Properties of Quasicrystals and Quasicrystalline Alloys: Basic Research in View of Potential Technological Applications</i>	1997
92	4-5	Materials science program review, Ames Laboratory	1998
92	2-3	Science and Technology Center Program [STC]	1998
92	6	New Energy and Industrial Technology Development Organization	1999
107	6	<i>Nanostructure Formation and Evolution in Thin Films</i>	2000
92	7	Site review: materials science program review, Ames Laboratory	2000
107	7	International joint research grant	2001
127	12	Transformation pathways proposal	2003-2004

Description of series

Series 8 **Notebooks** **1978-2014, undated**

description: Contains laboratory notes, research notebooks, telephone conversation notes, and trip notes.

Container list

Box	Folder	Title	Dates
40	5	Trips, meetings, seminars, notes	1978-1979
40	6	Trips, meetings, seminars, notes	1980
40	7	Trips, meetings, seminars, notes	1983

Box	Folder	Title	Dates
42	4	Department of Energy (DOE), research notebooks (#1- photocopies/microfilm copies with the DOE)	1983-1984
42	5	DOE Research Notebook (#1), telephone conversations	1983-1984
41	1	Trips, meetings, seminars, notes	1984
43	1	DOE Research Notebook (#4), laboratory notes	1984-1985
43	2	DOE Research Notebook (#5), laboratory notes	1984-1985
43	3	DOE Research Notebook (#6), laboratory notes	1984-1985
43	4	DOE Research Notebook (#7), laboratory notes	1985
41	2	Trips, meetings, seminars, notes	1985
41	3	Trips, meetings, seminars, notes	1985-1986
43	5	DOE Research Notebook (#8), telephone conversations	1985-1988
41	4	Trips, meetings, seminars, notes	1986-1987
44	1	DOE Research Notebook (#9), laboratory notes	1987
44	2	DOE Research Notebook (#10), laboratory notes	1987-1988
41	5	Trips, meetings, seminars, notes	1987-1988
41	6	Trips, meetings, seminars, notes	1988
45	2	DOE Research Notebook (#16), laboratory notes	1988-1989
44	3	DOE Research Notebook (#11), telephone conversations	1988-1990
41	7	Meeting notes	1988-1990
44	4	DOE Research Notebook (#12), laboratory notes	1989-1991
44	5	DOE Research Notebook (#13), laboratory notes	1989-1993
41	8	Research notebook	1989-1993
68	3	Action Items	1989-1995
42	1	Research notebook	1990
45	3	DOE Research Notebook (#18), telephone messages, conversations	1990-1993
45	1	DOE Research Notebook (#15), telephone conversations	1990-1995
42	2	Experiment research notebook	1991
42	3	Research notebook	1991-1992
107	9-10	<i>Materials Sciences Program Review</i>	2000
125	11	Handwritten notes for paper #161 by Barrow	2002

Box	Folder	Title	Dates
123	5	Notes/To Do Lists	2003
123	6	3 Program Review Talks	2004
189	12	Professional Papers - Misc. Notebook including conversations (August - April)	2013-2014
189	10-11	Professional Papers - Misc. Notebook including conversations (April - August)	2014
189	9	Professional Papers - Misc. Notebook including conversations (August - February)	2014-2015
131	15	2 Posters	undated

Description of series

Series 9 Publications 1976-[ongoing]

description: Contains manuscripts and presentations, which are numbered according to Thiel's resume.

Container list

Box	Folder	Title	Dates
123	11	<i>Diffusion on Surfaces</i> by: G.E. Rhead	undated
57	2	Figure and table originals U22	undated
125	10	Publications - Patent and Correspondence for Manuscript # 179	undated
124	4	Recruiting & General Public Relations	undated
108	25	<i>Surface Characteristics of Quasicrystalline Materials: An Overview of Work Conducted at Ames Laboratory</i> [presentation #95]	undated
146	16	X-ray diffraction, Hong & Corbett - paper	undated
56	13	Publications - Patent	1980-1993
193	2	UNAL - LEEM Publication #230 on 2016 C.V.	2001-2008
125	5	<i>Tribological Properties of a B2-type Al-Pd-Mn quasicrystal approximant; article written by Dr. Patricia A. Thiel, Chris Mancinelli, Cynthia J. Jenks, and Andrew J. Gellman</i>	1998-2003
86	7	<i>Diffusion and Coarsening Of Large Clusters on Ag (100)</i>	1996-1999

Box	Folder	Title	Dates
145	5	<i>Far-from Equilibrium Processes at Surfaces</i> for Surface Science Reports Journal	1992-1995
86	5	Friction mini-review	1996-1999
146	5	Park paper - 2-fold decagonal [presentation #195] article, information	2002-2005
123	9	<i>Approaching the low temperature limit in nucleation and growth of fcc100 metal Films-Ag/Ag(100)</i> (#158)	1999-2001
82	7	<i>Initial Stages of Metal Encapsulation During Epitaxial Growth Studied by STM: Rh/Ag (100)</i> [manuscript #110]	1994-1996
108	9	<i>Insider</i>	2000-2002
108	22	<i>Quasicrystals</i> for Ullmann's Encyclopedia	1998-2000
146	12	Steps with LeDieu & Fournee - article drafts, notes [manuscript #189]	2003-2005, undated
84	7	<i>Structural Analysis of the Fivefold Symmetric Surface of the Al₇₀Pd₂₁Mn₉ Quasicrystal by Low Energy Electron Diffraction</i> (1 of 2) [manuscript #128]	1996-1998
85	1	<i>Structural Analysis of the Fivefold Symmetric Surface of the Al₇₀Pd₂₁Mn₉ Quasicrystal by Low Energy Electron Diffraction</i> (2 of 2) [manuscript #128]	1996-1998
84	4	<i>Sub-monolayer Nucleation and Growth of 2D Islands and the Onset of Multilayer Growth during Ag/Ag (100) Homoepitaxy</i> [manuscript #125]	1996-1998
193	6	S/Cu (111) - Riken Publication #273 and #274 2016 C.V.	2013-2015
110	8	<i>A LEED Comparison of Structural Stabilities of the Three High-Symmetry Surfaces of Al-Pd-Mn Bulk Quasicrystals</i>	1999-2000
52	9	<i>Adsorption Correspondence</i>	1990-1991
82	1	Ag Cluster Diffusion	1994-1995
145	2	Ag(III) Island Shapes - article, drafts [manuscript #188]	2004-2005
82	5	<i>An ESDIAD and LEED Investigation of CF₃I on Ru (001)</i> [manuscript #108]	1995-1996
127	11	<i>An introduction to the surface science of quasicrystals;</i> an editorial in Progress in Surface Science	2003-2004
145	3	Aperiodic paper - article, drafts, data [manuscript #208]	2006-2007
81	8	Au (1x2)/Pd (110) LEED I-V, SS 1994	1993-1994

Box	Folder	Title	Dates
83	1	<i>Effectiveness of a Fluorinated Nickel Surface in Catalyzing the Decomposition of a Perfluoropolyether Analog</i> [manuscript #111]	1994-1995
85	5	<i>Evolution of Far-From-Equilibrium Nanostructures Formed by Cluster-Step and Cluster-Cluster Coalescence in Metal Film</i> [manuscript #130]	1997-1998
84	2	<i>Formation and Equilibration of Submonolayer Island Distributions in Ag/Ag (100) Homoepitaxy</i> [manuscript #122]	1997-1998
145	7	Ghosh-EAM/Quasicrystals - article [presentation #200]	2005-2006
84	3	<i>HRLEED Profile Analysis and Diffusion Barrier Estimation for Submonolayer Island Distributions in Ag/Ag (100) Homoepitaxy</i> [manuscript #124]	1997-1998
83	9	<i>Initial Stages of Ag/Ag (100) Homoepitaxy: Scanning Tunneling Microscopy Experiments and Monte-Carlo Simulations</i> [manuscript #120]	1996-1997
81	6	MRS Proceeding, STM-Ag (100)	1994-1995
108	17	<i>Ni(111) LEED Information</i> °	1992-1993
146	1-2	<i>Nucleation Rate Equations - Review, Revision, Correspondence</i> [presentation #207]	2006-2007
146	4	Park Anisotropy - articles, drafts, notes, correspondence, CD-r [presentation #202]	2005-2006
57	3	Permission letters	1986-1987
83	4	<i>Preparation of Well-Defined Samples of AlPdMn Quasicrystals for Surface Studies</i> - communication with co-authors [manuscript #113]	1995-1996
56	9	Publications - using publicity stills	1985-1986
108	21	Publications Related To Water Talk	1991-1992
175	11	<i>Self-assembly of metal nanostructures on binary alloy surfaces</i> [manuscript #247]	2010-2011
86	6	<i>Surface Oxidation of a Quasicrystalline Al-Cu-Fe Alloy: No Effect Of Surface Orientation and Grain Boundaries on the Final State</i> [Manuscript #138]	1998-1999
86	2	<i>Surface Oxidation of Al-Cu-Fe Alloys: A Comparison of Quasicrystalline and Crystalline Phases</i> (1 of 3) [manuscript #135]	1997-1998

Box	Folder	Title	Dates
86	3	<i>Surface Oxidation of Al-Cu-Fe Alloys: A Comparison of Quasicrystalline and Crystalline Phases</i> (2 of 3) [manuscript #135]	1997-1998
86	4	<i>Surface Oxidation of Al-Cu-Fe Alloys: A Comparison of Quasicrystalline and Crystalline Phases</i> (1 of 3) [manuscript #135]	1997-1998
85	6	<i>Surface Reactivity of a Sputter-Annealed Al-Pd-Mn Quasicrystal</i> (Jenks) (<i>Journal of the American Chemical Society</i>) [manuscript #132, presentation #91]	1997-1998
86	1	<i>Surface Science of Quasicrystals</i> [manuscript #133]	1997-1998
146	15	Unal - <i>Terrace Selection...</i> [manuscript #190] - article, correspondence	2004-2005
178	12	<i>Comment on "Origin of Friction Anisotropy on a Quasicrystal Surface</i> [manuscript #253]	2010-2011
185	8	PSS Review of Metals/HOPG Publication #268 2014 C.V.	2013-2014
185	9	Cu/HOPG Nucleation Paper Notes Publication #269 2014 C.V.	2013-2014
185	10	Cu/HOPG Nucleation Paper Notes Publication #269 2014 C.V.	2013-2014
193	5	Professional Papers - Project Schedules for Moving Equipment out of 331 to 221	2013-2014
193	7	Clean NaAu ₂ - Inorganic Chemistry Paper #278 2016 C.V.	2014-2015
46	1	<i>Rearrangement-Substitution Reactions of a 2-(Arylsulfonyl) ally System</i> [manuscript #1]	1976
108	20	<i>Preparation of Icosahedral AlPdMn and AlCuFe Samples for LEED Studies</i> (Includes 1- 3x5" Floppy Disc) [manuscript #171+15]	1977
46	7	<i>Catalytic Reaction between Adsorbed Oxygen and Hydrogen on Rh (111)</i>	1978
46	6	<i>Chemisorption of Hydrogen on Rh (111)</i>	1978
81	5	<i>Co-adsorption of Oxygen and Hydrogen on Rh (111)</i> (Et al) [presentation #1]	1978
46	8	<i>Interaction of Oxygen with the Rh (111) Surface</i> [manuscript #12]	1978

Box	Folder	Title	Dates
46	4	<i>A Determination of Adsorption Site Symmetry on Surfaces via Electron Energy Loss Spectroscopy: Co-adsorption of CO and NO on Ru(001)</i> [manuscript #6]	1979
46	3	<i>Adsorption of Nitric Oxide on Ru (001)</i> [manuscript #4]	1979
46	11	<i>Chemisorption Geometry of Hydrogen on Ni (111): Order</i>	1979
46	5	<i>Chemisorption of CO on Rh (111)</i> [manuscript #7]	1979
46	2	<i>Structure of CO Adsorbed on Pd(100): a LEED and HREELS Analysis</i> [manuscript #3]	1979
46	9	<i>Adsorption of Cyclohexane on Ru (001)</i> [manuscript #16]	1980
56	2	<i>Adsorption of Water on Ru(001) Chemisorption and Hydrogen Bonding</i> [presentation #3]	1980
56	1	<i>An Electron Energy Loss Spectroscopic Investigation</i> [manuscript #171+2]	1980
46	10	<i>Two-Dimensional Phase Separation: Co-Adsorption of Hydrogen and Carbon Monoxide on the (111) Surface of Rhodium</i> [manuscript #171+1]	1980
113	3	<i>Absorption, Co-absorption and Catalytic reactions on Rh(111) and Ru(001) Surfaces</i>	1981
46	13	<i>Monolayer and Multilayer Adsorption of Water on Ru (001)</i> [manuscript #15]	1981
46	12	<i>Co-adsorption of Oxygen and Water on Ru (001): Vibrational and Structural Properties</i> [manuscript #17]	1982
80	1	9 th International Vacuum Conference Abstracts (page 42)	1983
48	1	<i>Electron-Stimulated Desorption and Thermal Desorption Spectrometry of H₂O on Nickel (111)</i> [manuscript #29]	1983
48	2	<i>Electron-Stimulated Desorption and Thermal Desorption Spectrometry of H₂O on Nickel (111)</i> [manuscript #29]	1983
46	14	<i>Interaction of CO and Pt(100): I. Mechanism of Adsorption and Pt Phase Transition, II. Energetic and Kinetic Parameters</i> [manuscript #19 and #20]	1983
123	18	<i>Metal Monolayers</i> by: G.E. Rhead	1983
47	2	<i>C=O Stretching Vibration of CO on Ni (100) by Infrared Emission Spectroscopy</i> [manuscript #24]	1984
47	4	<i>Formation and Decomposition of KOH on Ru (001)</i>	1984
47	3	<i>Molecule-Substrate Vibration of CO on Ni (100)</i>	1984

Box	Folder	Title	Dates
47	6-7	<i>Oxidation of CO on Pt (100): Mechanism and Structure</i> [manuscript #28]	1984
47	5	<i>Simple, Efficient UHV Manipulator</i> [manuscript #27]	1984
47	1	<i>Vibrational Spectra of Chemisorbed Molecular Clusters: H₂O on Ru (001)</i> [manuscript #23]	1984
48	5	<i>A Versatile Data Acquisition System for Low-Energy Electron Diffraction</i> [manuscript #32]	1985
48	4	<i>Displacement of Cyclohexane by Water on a Ruthenium Surface</i> [manuscript #31, presentation #11]	1985
48	3	<i>NO Chemisorption on Ni (111): Coverage Effects, Site Preferences, and Adsorption Geometry</i> [manuscript #30]	1985
50	1	<i>Oxygenated Fluorocarbons Adsorbed at Metal Surfaces: Chemisorption Bond Strengths and Decomposition</i> [manuscript #44]	1986
48	6	<i>Reconstruction in a Thin Film: Epitaxial Pt on Pd (100)</i> [manuscript #33, presentation #9]	1986
49	3	<i>Summary Abstract: Bonding of Oxygenated Fluorocarbons to Metal Surfaces: Steric Effects Versus Electronic Effects</i> [manuscript #36]	1986
49	1	<i>Unusually Facile Dissociation of Benzene by Ruthenium Metal</i> [manuscript #34]	1986
56	10	Amsterdam Surface Science Reports	1987
49	10	<i>Cyclohexene Decomposition on Ru (001)</i> [manuscript #43]	1987
49	2	<i>Design Parameters for Differentially Pumped Rotating Platforms</i> [manuscript #35]	1987
50	4	<i>Formation of a Metastable Ordered Surface Phase Due to Competitive Diffusion and Adsorption Kinetics: Oxygen on Pd (100)</i> [manuscript #47, presentation #20]	1987
50	2	<i>Identification of Metastable Adsorption States in Thermal Desorption Spectroscopy</i> [manuscript #45]	1987
50	9	<i>Interaction of NF₃ with Ru (001): Order at Steps</i> [presentation #21, manuscript #51]	1987
49	9	<i>Interaction of Water with Solid Surfaces: Fundamental Aspects</i> [manuscript #42]	1987

Box	Folder	Title	Dates
49	8	<i>Isotope Effect in Water Desorption from Ru (001)</i> [manuscript #41]	1987
56	11	<i>Kinetic Analysis of the A2...</i> (never submitted)	1987
50	6-7	<i>Oxygen on Pd (100): Order, Reconstruction, and Desorption</i> [manuscript #49]	1987
50	3	<i>Reconstruction in a Thin Film: Epitaxial Pt on Pd (100)</i> [manuscript #46]	1987
49	7	<i>Simple, Inexpensive Delay Circuit for Protection Against Vacuum Loss from Power Interruptions</i> [manuscript #40]	1987
50	5	<i>Structure and Mechanism of Alkali-Metal-Induced Reconstruction of fcc (110) surfaces</i> [manuscript #48]	1987
49	4	<i>Summary Abstract: Evidence for Unusual Dissociative Adsorption of Benzene on Ru (001)</i> [manuscript #37]	1987
49	5	<i>Summary Abstract: Isotope Effect in Water Desorption from Ru (001)</i> [manuscript #38]	1987
49	6	<i>Summary Abstract: Potassium on Ni (110) and Au (110): Adlayer Ordering and/or Surface Reconstruction?</i> [manuscript #39, presentation #17]	1987
50	8	<i>Summary Abstract: Temperature and Coverage Dependent Structures of Oxygen on Pd (100)</i> [manuscript #50]	1987
56	3	<i>Bonding of Fluorinated and Hydrogenated Ethers to Metal Surfaces: A Surface Science Approach to Tribology</i> [manuscript #171+5, presentation #23 and #29]	1988
56	7	Book review	1988
51	1	<i>Oxygen-Stabilized Reconstructions of Pd (100): Phase Transitions during Oxygen Desorption</i> [manuscript #53]	1988
146	13	Surface Science letters "An Unusual c(2x2)... Presence of Oxide" - paper, correspondence	1988
51	2	<i>Temperature Dependence of Metal Film Growth via Low-Energy Electron Diffraction Intensity Oscillations: Pt/Pd (100)</i> [manuscript #54]	1988
124	7	<i>Temperature dependence of metal film growth via low-energy electron diffraction intensity oscillations: Pt/Pd(100).</i> By: D.K. Flynn, J.W. Evans, & P.A. Thiel	1988
50	10	<i>Use of LEED Intensity Oscillations in Monitoring Thin Film Growth</i> [manuscript #52]	1988

Box	Folder	Title	Dates
52	2	<i>A Disadvantage of Using Glass Capillary Arrays in Gas Dosing: Potential Chemical Reactions</i>	1989
51	5	<i>Adsorption of Water on Ru (100)</i> [manuscript #57, presentation #25]	1989
51	9	<i>Bonding of Fluorinated and Hydrogenated Diethers to Ru (001)</i> [manuscript #60]	1989
51	7	<i>Growth of Rh, Pd, and Pt Films on Cu (100)</i> [manuscript #62, presentation #34 and #42]	1989
123	15	<i>Influence of Adsorption - Site geometry and Diffusion on Thin-film Growth: Pt/Pd (100)</i> by: J.W. Evans, D.K. Flynn, & P.A. Thiel	1989
51	4	<i>Influence of Adsorption-Site Geometry and Diffusion on Thin-Film Growths Pt/Pd (100)</i> [manuscript #56]	1989
52	4	<i>Low Temperature Epitaxial Growth of Thin Metal Films</i> [manuscript #68]	1989
51	8	<i>Low-Temperature Metastable States in Thermal Desorption of Cyclic Ethers</i> [manuscript #59]	1989
52	5	<i>Reaction of Formic Acid with Clean and Water-Covered Pt (111)</i> [manuscript #69, presentation #49]	1989
51	10	<i>Structural Steps to Oxidation of Ni (100)</i> [manuscript #61, presentation #35, #43 and #45]	1989
56	4	<i>Surface Chemistry of Perfluoropolyethers and Hydrogenated Analogs: Are Studies of Model Compounds Useful?</i> [manuscript #171+6]	1989
51	3	<i>Water Chemisorbed on Ru (100) and Ru (001): Changes in Physical Properties Due to Substrate Morphology</i> [manuscript #55]	1989
52	7	<i>Adsorption and Desorption of CF₃I on Ru (001)</i> [manuscript #71]	1990
52	15	<i>Cluster Diffusivity: Structure, Correlation, and Scaling</i> [manuscript #72]	1990
52	6	<i>Cyclic Ethers Adsorbed on Ru (001)</i> [manuscript #70]	1990
56	5	<i>Fluorinated and Hydrogenated Ethers Adsorbed at Metal Surfaces: A Surface Science Tribology Study</i> [manuscript #171+7]	1990
52	11	<i>Growth Mode and CO Adsorption Properties of Au Films on Pd (110)</i> [manuscript #73]	1990

Box	Folder	Title	Dates
110	13	<i>Interaction of a Fluorinated Ether with a Metal Surface: Effects of Surface Morphology and Water Co adsorption</i> [manuscript #63]	1990
123	20	<i>Ordered structures and structural transformations on a K-covered Au(110) surface.</i> By: D.K. Flynn-Sanders, K.D. Jamison, J.V. Barth, J. Winterlin, P.A. Thiel, G. Ertl, & R.J. Behm	1990
52	3	<i>Pt and Au Films Grown on Pd (110): Dependence of (1 x 2) and (1 X 3) Reconstructions on Deposition Temperature and Film Thickness</i> [manuscript #66, presentation #41]	1990
52	12	<i>Reconstructions of Au Films on Pd (110)</i> [manuscript #74]	1990
52	1	<i>Surface Properties of PbO₂ and Bi-Modified PbO₂ Electrodes</i> [manuscript #64]	1990
51	6	<i>Unexpected Structure in Rh Films on Ag (100): Implications for Magnetic Films on Noble-Metal Substrates</i> [manuscript #67, presentation #36]	1990
52	8	<i>Adsorption Figures</i>	1991
53	9-11	<i>Determination of the (1 x 2) Structure of a Pt Film on Pd (110)</i>	1991
53	3	<i>Diffraction Profile Analysis for Epitaxial Growth on fcc (100) Substrates: Diffusionless Models</i> [manuscript #77]	1991
123	10	<i>Diffraction profile analysis for epitaxial growth on fcc(100) substrates: diffusionless models</i> by: H.C. Kang, D.K. Flynn-Sanders, P.A. Thiel, & J.W. Evans	1991
80	2-3	<i>Effective Debye Temperature of Surface Oxide on Ni(100)</i> - never published	1991
52	13	<i>Identification of Reconstruction in Pt Films Deposited on Pd(110) at Room Temperature</i> [manuscript #75]	1991
53	4	<i>Method for Recoating Phosphor on Commercial Low-Energy Electron Diffraction Optics</i> [manuscript #81]	1991
53	2	<i>New Chemical Manifestations of Hydrogen Bonding in Water Adlayers</i> [manuscript #79]	1991
53	1	<i>Ordered Structures and Structural Transformations on a K-covered Au (110) Surface</i> [manuscript #78]	1991

Box	Folder	Title	Dates
54	3	<i>Temperature and Coverage Dependence of Adsorbed Formic Acid and Its Conversion to Formate on Pt (111)</i> [manuscript #80]	1991
53	7	<i>Chemical Reactions Between Atomic Oxygen and Formic Acid on Pt (111)</i> [manuscript #86]	1992
53	6	<i>Effect of CO on Pt-Catalyzed Decomposition of Formic Acid in Ultrahigh Vacuum</i> [manuscript #85]	1992
53	5	<i>Evidence for a Hydrogen-Bonded Complex Between Water and Formic Acid Co-adsorbed on Pt (111)</i> [manuscript #82]	1992
52	10	<i>Lateral Displacements in the Topmost Layer of Pd (110) by Dynamical Low-Energy Electron-Diffraction</i> [manuscript #89]	1992
56	8	Letter to the Editor of <i>Science</i>	1992
56	6	<i>Structural Phenomena Related to Associative and Dissociative Adsorption of Water on Ni (110)</i> [manuscript #83]	1992
54	1	<i>Epitaxial Growth in a Strained System</i>	1993
54	2	<i>Homoepitaxial Growth on Pd (100)</i> [manuscript #90]	1993
110	14	<i>Homogeneous and Heterogeneous Front Nucleation in a Bi-stable Surface Reaction: The NO + CO reaction on a cylindrical Pt crystal</i> [manuscript #92]	1993
54	7	<i>Interaction of Formic Acid with Transition Metal Surfaces Studies in Ultrahigh Vacuum: A Review</i> [manuscript #95]	1993
52	14	<i>LEED Structural Determination of the (1 x 2) and (1 x 1) Structures of Pt Thin Films on Pd (110) by Dynamical Low-Energy Electron Diffraction</i> [manuscript #88]	1993
53	8	<i>Local and Collective Structure of Formate on Pt (111)</i> [manuscript #87]	1993
54	5-6	<i>Metal Film Growth</i>	1993
56	12	Publications - Patent	1993
55	5	<i>Surface Metal Reconstructions</i> [manuscript #104]	1993
54	4	<i>Surface Self-Diffusion Barrier of Pd (100) from Low-Energy Electron Diffraction</i> [manuscript #91]	1993
109	22	Cluster review, <i>World Scientific</i>	1994

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55	2	<i>Investigations into the Chemistry of Perfluorodiethoxymethane at Nickel and Nickel Oxide Surfaces</i> [manuscript #98]	1994
55	3	<i>Low-Energy Electron Diffraction</i>	1994
82	4	Negatives and photographs (color) Publication #107	1994
55	1	<i>Stabilization of Formate on Pt (111) by Coadsorbed Atomic Oxygen</i> [manuscript #96]	1994
108	31	<i>Tensor LEED Analysis of the Pd (100) - ($\sqrt{5} \times \sqrt{5}$) R27°-0 Surface Structure</i> [manuscript #100]	1994
55	4	<i>Thermally and Electron-Induced Chemistry of CF₃I on Ni (100)</i> [manuscript #101, presentation #64]	1994
82	2	<i>An ESDIAD & LEED Investigation of CF₃I on Ru (001)</i> [manuscript #108]	1995
109	23	<i>Annual Review of Physical Chemistry</i> (never published)	1995
57	1	Chemistry Reviews (Yates)	1995
108	12	<i>Low-Energy Electron Diffraction</i>	1995
108	13	<i>Low-Energy Electron Diffraction: Some Basic Conceptual Tools</i>	1995
108	14	<i>Metal Surface Reconstruction</i>	1995
108	19	<i>Oxygen Adsorption on a Single-Grain, Quasicrystal Surface</i> [manuscript #106]	1995
82	3	Oxygen/AlPdMn/LEED <i>Surface Science</i>	1995
108	23	<i>Reactivity and Structure of CF₃I on Ru (001)</i> [manuscript #102]	1995
83	5	<i>Surface Oxidation of an Al-Pd-Mn Quasicrystal, Characterized by X-ray Photoelectron Spectroscopy</i> [manuscript #107]	1995
80	4	<i>A Laboratory Study of Heterogeneous Catalysis in Ultrahigh Vacuum</i> [manuscript #114] (also see Series 5, Box 153, folder 10)	1996
80	5	<i>A Laboratory Study of Heterogeneous Catalysis in Ultrahigh Vacuum</i> - correspondence (also see Series 5, Box 153, folder 10)	1996
82	6	<i>Coarsening Mechanisms in a Metal Film: From Cluster Diffusion to Vacancy Ripening</i> [manuscript #109]	1996

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80	7	<i>Diffusion of Large Metal Vacancy Clusters on Ag (100)</i> [Publication (dropped off as co-author)] [manuscript #99]	1996
80	8-9	Educational Outreach Monograph	1996
81	1-4	Educational Outreach Monograph Figures, diskettes, old drafts	1996
83	2-3	<i>Photoelectron Spectra of Al₇₀Pd₂₁Mn₉ Quasicrystal and the Cubic Alloy Al₆₀Pd₂₅Mn₁₅</i> [manuscript #112]	1996
80	6	Publication (never completed) faceted cluster diffusion	1996
83	7	<i>Structure and Growth of the Twofold Surface of Icosahedral Al-Pd-Mn by LEED and XPS</i> [manuscript #118]	1996
108	27	<i>Surface Oxidation of Al-Pd-Mn Quasicrystal, Characterized by X-Ray Photoelectron Spectroscopy</i> [manuscript #107]	1996
83	6	<i>Surface Structure of a Fivefold AlPdMn Quasicrystal: Dynamical Low-energy Electron Diffraction Analysis</i> [manuscript #117] (3 - 1.5 floppy disk)	1996
108	30	<i>Surface Studies of Oxidation of a Single Grain Quasicrystal</i> [manuscript #171+13, presentation #67]	1996
83	8	<i>Fivefold Surface of Quasicrystalline AlCuFe: Preparation and Characterization with LEED and AES</i> [manuscript #119] (1- 1.5 floppy disk)	1997
145	9	Instructional STM (scanning tunneling microscopy) - journal manuscript, research	1997
84	5	<i>Quasicrystals: A Short Review from a Surface Science Perspective</i> [manuscript #126]	1997
84	6	<i>Stability of Fluorinated Ethers at Metal and Metal Compound Surfaces</i> [Manuscript #127]	1997
108	26	<i>Surface Oxidation of Al-Pd-Mn and Al-Cu-Fe Alloys</i> [manuscript #171+14]	1997
84	1	<i>Surface Properties of Quasicrystals</i> (includes discussions with co-authors) [manuscript #121]	1997
85	2-4	<i>Surface Structure of a B-Al (Cu_{1-x}Fe_x)-(110) Film Formed on an AlCuFe Quasicrystal Substrate, Analyzed by Dynamical LEED</i> [manuscript #129]	1997

Box	Folder	Title	Dates
108	4	<i>Comparison of Low Temperature Surface Oxidation of a Hot Sintered Al₇₀Cu_{9.0}Fe_{110.5}Cr_{10.5} Quasicrystalline Powder with Hot-Isostatically-Pressed Quasicrystalline and Crystalline Al-Cu-Fe Powders</i> [presentation #94]	1998
85	7	<i>Crystalline Surface Structures Induced by Ion Sputtering of Al-Rich Icosahedral Quasicrystals (1 of 2)</i> [manuscript #131]	1998
85	8	<i>Crystalline Surface Structures Induced by Ion Sputtering of Al-Rich Icosahedral Quasicrystals (2 of 2)</i> [manuscript #131]	1998
109	24	<i>Horizons in Quasicrystal Research</i> [manuscript #142] (includes 3x5" floppy disc)	1998
110	1	<i>Nano-scale Properties of Defects in Compound Semiconductor Surfaces</i>	1998
108	18	<i>Oxidation of Surfaces of Icosahedral Quasicrystals: Some Key Comparisons</i> [manuscript #171+16]	1998
81	7	<i>Structure and Stability of the Twofold Surface of Icosahedral AlPdMn by LEED and XPS</i> [manuscript #118]	1998
110	2	<i>A Comparison of Structural Stabilities of the Three High-Symmetry Surfaces of Al-Pd-Mn Bulk Quasicrystals, using LEED</i> [manuscript #140]	1999
110	3	<i>Effect of Sputtering Gas on the Surface Composition of an Al-Pd-Mn Quasicrystal</i> [manuscript #147]	1999
110	7	<i>Interaction of Silicon Single Crystal Surfaces: Microscopic Processes and Structures</i>	1999
108	11	<i>LEED Investigations of a Cubic Al-Pd-Mn (110) Alloy</i> [manuscript #171+17, presentation #96]	1999
110	4	<i>Nucleation, Growth and Relaxation of Thin Films: Metal (100) Homoepitaxial systems</i> [manuscript #143] (2-1.5 floppy disks)	1999
110	5	<i>Quasicrystals Reaching Maturity for Technological Applications</i> [manuscript #141]	1999
110	6	<i>Smoluchowski Ripening of Ag Islands on Ag(100)</i> [manuscript #139]	1999
123	7	<i>Analysis of Gas Phase Clusters Made from Laser-Vaporized Icosahedral Al-Pd-Mn (#22)</i>	2000
108	5	<i>Concerning the Ca_{2-x}Mg_xTt Systems, Tt=Sn, Pb</i>	2000

Box	Folder	Title	Dates
110	10	<i>Electronic Structure of Quasicrystalline and Related Crystalline Surfaces: Effects of Surface Preparation and Bulk Structure</i> [manuscript # 150]	2000
110	9	<i>Electrons in a Strange Sea</i> [manuscript #151]	2000
108	10	<i>Kinetic Roughening of Multiplayer Ag/Ag (100) Films: Complex Temperature-Dependence in a Simple System</i> [manuscript #171+21]	2000
108	15	<i>Modeling of Metal (100) Homoepitaxial Film Growth at Very Low Temperatures</i> [manuscript #171+20, presentation #107]	2000
110	11	<i>Structural Aspects of the Threefold Surface of Icosahedral Al-Pd-Mn</i>	2000
124	8	<i>TDS Study of Potassium Adsorption on Al(111) and fivefold Al-Pd-Mn (#+25 Conference Proceedings)</i>	2000
110	12	<i>Using Temperature to Tune Film Roughness: Non-Intuitive Behavior in a Simple System</i> [manuscript #145]	2000
108	1	<i>A Structural Refinement with LEED for the Pd (100) - ($\sqrt{5} \times \sqrt{5}$)R27^o-0 Surface</i> [manuscript #157]	2001
115	25	<i>Determination of Auger Sensitivity factors for Al-Rich Quasicrystals</i> [manuscript #155] (1-3.5 floppy disk)	2001
108	7	<i>Evolution of Mounds During Metal (100) Homoepitaxy: Characterization of Three Consecutive Growth Regimes</i>	2001
108	8	<i>Evolution of Two-Dimensional Wormlike Nanoclusters on Metal Surfaces</i> [manuscript #153]	2001
108	16	<i>Morphology of Multilayer Ag/Ag(100) Films Versus Deposition Temperature: STM Analysis and Atomistic Lattice-Gas Modeling</i> [manuscript #151]	2001
108	24	<i>STM Studies on Atomic Structure of Icosahedral Al-Cu-Fe Fivefold Surface</i>	2001
115	24	<i>Structural aspects of the fivefold quasicrystalline Al-Cu-Fe surface from STM and dynamical LEED studies"</i> [manuscript #156] (1- 3.5 floppy disk)	2001
108	2	<i>Additive-Enhanced Coarsening and Smoothing of Metal Films: Complex Mass-Flow Dynamics Underlying Nanostructure Evolution</i> [manuscript #159, presentation #126]	2002

Box	Folder	Title	Dates
108	3	<i>Analysis of Gas-Phase Clusters Made from Laser-Vaporized Icosahedral Al-Pd-Mn</i> [manuscript #166 and 171+22, presentation #115]	2002
108	6	<i>Electronic Structure of Quasicrystals Deducted from Auger and X-Ray Photoelectron Spectroscopies</i> [manuscript #162]	2002
124	6	<i>Surface Conditions of Nitinol Wires, Tubing, and As-Cast Alloys. The effect of Chemical etching, aging in boiling water and heat treatment. (#172)</i>	2002
108	28	<i>Surface Preparation and Characterization of the Icosahedral Al-Ga-Pd-Mn Quasicrystal</i> [manuscript #164]	2002
108	29	<i>Surface Structures of Approximant Phases in the Al-Pd-Mn System</i>	2002
123	8	<i>Analytical Chemistry Cume by: Pat Thiel</i>	2003
127	8	<i>Commencement speech-Fall 2003</i>	2003
123	12	<i>Effect of Common Gases on Nucleation of Metal Islands: the Role of Oxygen in Ag (100) Homoepitaxy (#173)</i>	2003
123	14	<i>Growth of AG thin films on complex surfaces of quasicrystals and approximant phases (#175)</i>	2003
123	16	<i>Influence of Strain in Ag on Al(111) and Al on Ag(100) thin film group (#171)</i>	2003
123	17	<i>Materials Research Society Bulletin</i>	2003
123	19	<i>Nucleation and growth of Ag films on a quasicrystalline AlPdMn surface (#170)</i>	2003
124	1	<i>Palladium clusters formed on the complex pseudo ten-fold surface of the ϵ'-Al_{77.5}Pd₁₉Mn_{3.5} Approximate Crystal (#170)</i>	2003
124	2	<i>Photoemission studies of the sputter-induced phase transformation on the Al-Cu-Fe surface (#177)</i>	2003
124	3	<i>Pseudomorphic Starfish: nucleation of extrinsic metal atoms on a quasicrystalline substrate (#169)</i>	2003
124	5	<i>Surface structure of Al-Pd-Mn quasicrystals: Existence of supersaturated bulk vacancy concentrations. (#174)</i>	2003
123	13	<i>Geometric Structure of Bergman Clusters related to bulk amorphous alloys and quasicrystals (#180)</i>	2004

Box	Folder	Title	Dates
145	11	<i>Journal of Physics D: Applied Physics</i> - manuscript, information [manuscript #187]	2004
128	12	Manuscripts published '04 (CD)	2004
128	2	<i>Structure and oxidation at quasicrystal surfaces</i> , [manuscript #185], in <i>Progress in Surface Science</i>	2004
145	4	Data analysis with Feili, November 2005 [presentation #204, 205]	2005
145	6	Feili's project planning [presentation # 204, 205]	2005
145	8	Gleason-Sodelet meetings and materials [presentation #204, 205]	2005
145	10	Jim's direct XPS, LEIS data [presentation #204, 205]	2005, undated
146	3	<i>Modeling of the Energetics and Kinetics...5-fold...</i> [presentation #198]	2005
146	6	Park paper, <i>Adhesion Properties of Decagonal Quasicrystals in Ultrahigh Vacuum</i> [presentation #197]	2005
146	8	Park, Smoluchowski paper on Dipole Fields [presentation #194]	2005
146	9	Plasticity and Ethylene - review, notes, article [publication #191]	2005
131	13	Thiel 2005 CD#3 Backups Contains: Manuscripts Published	2005
146	14	Unal - <i>Voids & Pits...</i> [publication #196] - article, outline, correspondence	2005
145	1	2D Islands & 3D Mounds manuscript - published copy, information [manuscript #201]	2006
145	12	<i>Nature Materials</i> "News & Views" - correspondence, paper ("When All Pieces Fit Together") [presentation #207]	2006
146	7	Park paper, <i>Electronic Control of Friction</i> [manuscript #203]	2006
146	10	Pt + Ni ₃ A1 - UHV oxidation [publication #204, 205]	2006
146	11	Pt + Ni ₃ A1 ms-clean [publication #204, 205] - article, date	2006
193	3	UNAL - LEEM Publication #230 on 2016 C.V. - from Basis	2007

Box	Folder	Title	Dates
193	4	UNAL - LEEM Publication #230 on 2016 C.V. - SANDIA Info (1 CD)	2008
166	2	<i>Accelerated Coarsening of Ag Adatom Islands on Ag(111) Mediated by Metal-Sulphur Complexes</i> [manuscript #224]	2008
174	7	Euroschool review [manuscript #284]	2008
166	1	<i>Work Function of a Quasicrystal Surface: Icosahedral Al-Pd-Mn</i> [manuscript #230]	2008
171	4	Notes and correspondence [manuscript #232]	2009
166	3	Publications - untitled paper [manuscript #225]	2009
166	4-6	<i>Stranski-Krastanov-like Growth of an Ag Film on a Metallic Glass</i> [manuscript #227]	2009
174	1	<i>Twofold Surface of the Decagonal Al-Cu-Co Quasicrystal</i> - article, notes [manuscript #233]	2009
174	4	<i>Adsorbate-enhanced Transport of Metals on Metal Surfaces: Oxygen and Sulfur on Coinage Metals</i> - article, notes [manuscript #242]	2010
174	5	<i>A Little Chemistry Helps the Big Get Bigger</i> - article [manuscript #243]	2010
171	5	<i>Rapid Decay of Vacancy Islands at Step Edges on Ag(111): Step Orientation Dependence</i> [manuscript #233]	2010
175	12	<i>Sulfur controls nucleation of Ag islands on Ag(111)</i> [manuscript #245]	2010
169	6	<i>Surface Structures and Properties of Quasicrystals</i> (Unal) (<i>Encyclopedia of Surface and Colloid Science</i>) [manuscript #233]	2010
175	13	<i>Weak bonding of Zn in an Al-based approximant based on surface measurements</i> [manuscript #251]	2010
180	5	<i>Weak Bonding of Zn in an Al-based Approximant Based on Surface Measurements</i>	2010
174	6	<i>Adsorption of Sulfur on Ag(100)</i> - article, notes [manuscript #244]	2011
175	9-10	<i>Nucleation and growth of Ag islands on the $(\sqrt{3} \times \sqrt{3})R30^\circ$ phase of Ag ion Si(111)</i> [manuscript #253]	2011
178	10	<i>Destabilization of Ag Nanoislands on Ag(100) by Adsorbed Sulfur</i> [manuscript #246]	2011

Box	Folder	Title	Dates
65	14	Explosive Seminar (Co/Pd) - originals	undated
61	7	Fluorocarbons Viewgraphs	undated
61	2	General P.R. Viewgraphs CO/Ni	undated
61	6	Group and Equipment Photos/Pictures	undated
65	9	Isotope Effect Seminar Originals	undated
133	7	JMD Book "Useful Quasicrystals"	undated
149	6	Laurent's multi-layers	undated
107	19	Multi-layer deposition (119 3x5" color pictures, 24 negatives)	undated
107	20	Multi-layer deposition (53 3x5" color pictures, 14 5x7" color, 19 negatives)	undated
107	18	Multi-layer deposition (69 3x5" color pictures, 13 negatives)	undated
61	11	Munchen Data (1 of 2)	undated
62	1	Munchen Data (2 of 2)	undated
61	5	O/Pd Viewgraphs	undated
107	21	PRF report	undated
62	3	Pt/Pd Seminar	undated
149	10	Pt(1x3)/Pd(110) - experimental procedures	undated
124	10	Quasicrystals	undated
124	13	Questions asked about Quasicrystals	undated
61	8	Rh/Ag Viewgraphs	undated
124	14	STM Data	undated
61	10	TDS Data - CO/Pt(100)	undated
124	15-16	Transparencies - Quasicrystals	undated
124	17	Viewgraphs - Friction & Coatings	undated
124	19	Viewgraphs - Surfaces General	undated
149	8-9	NO/Pt(100) - research, data, related journal articles	1987-1991, undated
58	1	Kuyatt-Optics Data	1967
58	2-3	EELS Systems Documentation	1970
58	4	Diffusion in Crystalline Solids: A Review	1973-1984

Box	Folder	Title	Dates
58	5	Advanced Calculus for Appl. Math. (Macalester)	1974
58	6	Statistical Thermodynamics (Cal Tech.)	1976
59	1	Solid State Physics (Cal Tech.)	1976-1977
59	2	Catalysis and Surface Chemistry (Cal. Tech.)	1977
59	3	Quantum Mechanics (Cal. Tech.)	1977
59	4	H2O Data Sets	1979
60	1-3	H2O Data Sets	1979
60	4	N2O/Ru(001) Data	1979
61	1	Data Analysis	1980
60	5-6	H2O Data Analysis	1980
62	5	Data Analysis (Floppy Disks)	1980-1982
124	12	Quasicrystal Viewgraphs - Temperature Programmed Desorption	1980-1998
62	6	Research Data	1981
62	7	Research Data - AANQYKY	1981
113	5	LASL runs and more - AL Research	1981-1985
63	4	CO/Pt(100) Correspondence	1982
63	1	Desorption Rates Data	1982
63	5-6	Exxon Data	1982
64	1	Exxon Data	1982
62	8	H2O Viewgraphs	1982
63	3	Kt/H2O Data	1982
62	9	LEED: Intensities and Island Sizes EEELS Data	1982
63	2	TDS CO/Pt(100) Data Analysis	1982
64	2	Metal Films: Bauer	1982-1991
64	5	CO Oxidation Data	1983
64	6-7	CO/Ni-Berkeley - Research Data	1983
64	4	H2O/Ru(001) - Data Analysis	1983
64	3	Kt/H2O/Ru(100) - Data Analysis	1983
64	8	Organosilanes Data	1984
65	1	Pt/Pd - Research data	1984

Box	Folder	Title	Dates
66	3	Articles	1984-1989
65	5	H ₂ O/D ₂ O Isotope Effect - Data Analysis	1985
65	3	PR Seminar/Presentations	1985
65	4	Reconstructions - Group Seminar	1985
65	2	Thin Film Thickness Measurements with AES	1985
65	6	Presentations	1985-1988
65	7	Kellogg's FIM work	1985-1991
65	10	Pt/Pd Seminar	1986
65	8	Fluorocarbons (Mat. Ch. Review)	1986-1989
66	11	Cyclohexane and H ₂ O/Ru - Seminar Research notebook	1987-1988
65	12	AVS Presentation Adsorption of Water on Ru (100)	1988
65	13	<i>Growth Modes and Structures of Thin Metal Films: Some New Twists</i>	1988
66	1	Presentation to Noble-Hinds	1988-1990
66	2	Presentation to 3M	1989
66	4	Pt, Au/Pd: fcc (100) films - Research notebook	1989
124	18	Viewgraph Originals - Quasicrystals	1989-1996
66	7	Diffusion-Mediated Thin Film Growth Research notebook	1990
117	8	Major Folders (7- 3.5 diskettes)	1990 ca.
66	5	Notes to Accompany Seminar Lab horror stories	1990
110	20	Scattering factor choices	1990
69	1	Videotape (1½ inch): D. Sanders Cu/Cu(100)	1990
69	2	Videotape (1½ inch): Rh/Ag(100)	1990
110	18	'δ-α' phase transition of monolayer Ce ONW(110)	1991
66	9-10	CF ₃ I: Data and data analysis U. Myler, M. Jensen and Pat Thiel	1991
107	11	Electron microprobe correspondence	1991
66	8	Ag Cluster Diffusion - Research notebook	1993
110	14	Ag multilayer data (13 color 5x7" photos)	1993
110	17	<i>HCOOH/Pt(111)</i>	1993
149	5	Hydroxybenzenes - transparency, copy	1993

Box	Folder	Title	Dates
110	15	NiO photon spectra (never published)	1993
110	16	<i>Adsorption of Methylchlorosilanes on sputtered, polycrystalline tin oxide</i> (never published, includes 1 3x5" floppy disc)	1994
110	19	Materials for PRF/Hydroxyls	1995
107	12	Maximum hardness and minimum adhesion energy	1996-1998
124	9	Clean Surfaces	1996-1997
153	5	Accounts of chemical research - correspondence, article policies	1997
149	3	Collaborations with Porter	1997
153	6	LEED IV of 2f A1 Pd Mn - correspondence	1997
149	7	Mn-enrichment - samples, data, correspondence	1997
133	10	Sandia National Laboratories, CA Thin Films Program	1997
124	11	Quasicrystal Seminar Outlines	1997-1998
107	13	<i>Ag (100) re-shaping</i> and <i>LEED ARCuFe</i> video tapes (2)	1997-1999
149	2	Bulk metallic glasses - unpublished research	1998
149	4	Corrosion of quasicrystals, electrochemical solutions	1999
107	14	Oxidation and corrosion behavior of Al-based Quasicrystals	1999
150	5	Quasicrystals - information booklet, correspondence, 3 b/w slides	1999
107	15	Demange	2000
134	1	Peter Sherwood Seminar	2000
107	16	Tony's O/Ag SSL	2000
133	9	Backups	2001
150	6	Ultra-hard samples - research articles, information	2001
107	17	Cai AlCuFe IV and STM [manuscript #156]	2002
113	4	Integrated graduate education and research traineeship (IGERT) - proposal work	2002
134	2	FY2007 work Authorization System	2005
131	17	Thiel 2005 CD#1 Backups	2005
131	14	WAS Jan '05	2005

Box	Folder	Title	Dates
67	7	Family photographs (color)	1992-1994
67	6	Photographs group (color)	1993
67	1	Photographs - contact sheet Mark Jensen, Cynthia Jenks & Pat Thiel	1994
115	9	Amanda, Daughter (30- 3x5 color)	1994
115	10	Amanda, daughter - photobook pictures (1 of 2) (40- 3x5 color)	1994
115	11	Amanda, daughter - photobook pictures (2 of 2) (36- 3x5 color)	1994
115	20	Ellen, daughter (39- 3x5 color)	1994
115	12	Amanda, daughter (1 of 2) (44- 3x5 color)	1995
115	13	Amanda, daughter (2 of 2) (49- 3x5 color)	1995
116	1	Ellen, daughter (67- 3x5 color)	1995
115	14	Amanda, daughter (1 of 3) (30- 4x6, 15- 3x5 color)	1995-2002
115	15	Amanda, daughter (2 of 3) (56- 4x6 color)	1995-2002
115	16	Amanda, daughter (3 of 3) (43- 4x6 color)	1995-2002
117	1	Family pictures (1 of 3) (60- 3x5 color)	1995-2002
117	2	Family pictures (2 of 3) (67- 4x6, 1- 3x5 color; 1- 4x6 b/w)	1995-2002
117	3	Family pictures (3 of 3) (59- 4x6 color; 2- 4x6 b/w)	1995-2002
116	2	Ellen, daughter (1 of 3) (43- 4x6, 9- 3x5 color)	1996-2002
116	3	Ellen, daughter (2 of 3) (50- 4x6 color)	1996-2002
116	4	Ellen, daughter (3 of 3) (43- 4x6 color)	1996-2002
124	20	Department photograph	2000
116	5	Europe trips (1 of 2) (65- 4x6 color)	2001, undated
116	6	Europe Trips (2 of 2) (19- 4x6, 50- 3x5 color)	2001, undated
117	5	Thiel work and faculty photographs (27- 4x6, 5- 3x5 color)	2003
128	13	"Retirement" party photos (CD)	2004
132	5-9	Family Photos	2004-05
133	1-4	Family Photos	2004-05
153	7	Photographs, postcards - China trip (17- 4x6 color)	2005

Box	Folder	Title	Dates
140	5	Photographs - Trip to London, England (43- 4x6 color and 1- 4x11 color photographs)	2005
133	6	Personal Photos 1 - all jpeg	2006
119	4	Photobook #4	ca. 1980
119	5	Photographs - photobook #4 (1 of 3) (100- 3x5 color)	ca. 1980
119	6	Photographs - photobook #4 (2 of 3) (100- 3x5 color)	ca. 1980
119	7	Photographs - photobook #4 (3 of 3) (1- 8x10, 35- 3x5, 15- 3x3 color)	ca. 1980
120	1	Photobook #5	ca. 1980
120	2	Photographs - photobook #5 (1 of 2) (100- 3x5 color)	ca. 1980
120	3	Photographs - photobook #5 (2 of 2) (1- 8x10, 1- 5x7, 43- 3x5, 33- 3x3, 3- 2x1 color)	ca. 1980
120	4	Photobook #6	ca. 1980
120	5	Photographs - photobook #6 (1 of 2) (130- 3x5 color)	ca. 1980
120	6	Photographs - photobook #6 (1 of 2) (3- 8x 10, 63- 3x5, 31- 3x3, 5- 2x2 color)	ca. 1980
115	1	Amanda, daughter (1 of 4) (47- 3x5 color)	ca. 1992
115	2	Amanda, daughter (2 of 4) (47- 3x5 color)	ca. 1992
115	3	Amanda, daughter (3 of 4) (52- 3x5 color)	ca. 1992
115	4	Amanda, daughter (4 of 4) (49- 3x5 color)	ca. 1992
115	5	Amanda, daughter (1 of 3) (47- 3x5 color)	ca. 1993
115	6	Amanda, daughter (2 of 3) (47- 3x5 color)	ca. 1993
115	7	Amanda, daughter (3 of 3) (52- 3x5 color)	ca. 1993
115	18	Ellen, daughter (1 of 2) (40- 3x5 color)	ca. 1994
115	19	Ellen, daughter (2 of 2) (49- 3x5 color)	ca. 1994
173	8	Photographs of family members on CD (4 CDs)	2009
110	21	Group photographs (3 color 8x10, 4 color 4x6)	undated
117	4	Miscellaneous photos (4- 4x6, 10- 3x5 color)	undated
111	1	Graduate student photos (2- 5x7 color)	undated
153	8	Photographs - family members, self (2- 3x5, 2- 5x7, 2- 8x10, 1- 9x12 color)	undated
124	21	Photographs - quasicrystals	undated

