Guide to the James L. Adams Papers SC0949

Daniel Hartwig
Department of Special Collections and University Archives
October 2010
Green Library
557 Escondido Mall
Stanford 94305-6064
specialcollections@stanford.edu
URL: http://library.stanford.edu/spc

Note
This encoded finding aid is compliant with Stanford EAD Best Practice Guidelines, Version 1.0.
**Language of Material:** English

**Contributing Institution:** Department of Special Collections and University Archives

**Title:** James L. Adams papers

**creator:** Adams, James L.

**Identifier/Call Number:** SC0949

**Physical Description:** 25.75 Linear Feet

**Date (inclusive):** 1925-2008

**Date (bulk):** bulk

**Abstract:** Papers largely reflect his teaching career at Stanford University and include class materials, correspondence, memoranda, reports, publications, and some photographs (largely of student projects). Collection also includes minutes and correspondence of the curriculum committee of the School of Engineering, 1925-1946.

**Information about Access**

This collection is open for research.

**Ownership & Copyright**

All requests to reproduce, publish, quote from, or otherwise use collection materials must be submitted in writing to the Head of Special Collections and University Archives, Stanford University Libraries, Stanford, California 94304-6064. Consent is given on behalf of Special Collections as the owner of the physical items and is not intended to include or imply permission from the copyright owner. Such permission must be obtained from the copyright owner, heir(s) or assigns. See: http://library.stanford.edu/depts/spc/pubserv/permissions.html.

Restrictions also apply to digital representations of the original materials. Use of digital files is restricted to research and educational purposes.

**Cite As**

James L. Adams Papers (SC0949). Dept. of Special Collections and University Archives, Stanford University Libraries, Stanford, Calif.

**Biographical/Historical Sketch**

James L. Adams earned his BA in mechanical engineering at CalTech in 1955. He studied art at UCLA then came to Stanford where he earned his master's and doctoral degrees in 1959 and 1961. After a few years at the Jet Propulsion Laboratory, he joined the Stanford faculty in the School of Engineering in 1966. His administrative positions included associate dean for academic affairs; chair of the program in Values, Technology, Science and Society; director of the design division of Mechanical Engineering; and chair of the Department of Industrial Engineering and Engineering Management.

**Description of the Collection**

Papers largely reflect his teaching career at Stanford University and include class materials, correspondence, memoranda, reports, publications, and some photographs (largely of student projects). Collection also includes minutes and correspondence of the curriculum committee of the School of Engineering, 1925-1946.

**Subjects and Indexing Terms**

Engineering design.

Problem solving.

Stanford University. School of Engineering. Curricula

Stanford University. Program in Values, Science and Society

Adams, James L.

Adams, James L.

Stanford University. School of Engineering. Faculty.

---

**Papers** Accession ARCH-2009-162

**VTSS Program Materials Misc.:**

box 1 1970-98 [articles, correspondence, clippings, publications, etc; includes 1970 program proposal]

**Creative problem solving courses:**

box 2 ME 214, 1970

box 2 MS&E 277, 2001
box 2  Quality course, 1990-91
box 2  Cons. Mind and Memory Oct. 1
box 2  IE 101/201 (many folders)
box 2  IE 201 1998 student reports
box 2  IE 201 misc. photos
Creative problem solving courses (cont.):
box 3  IE 101/201 files 1978-82
box 3  ME 121 Student papers 1999
box 3  IE 201/ME223 Student papers 1993 (several folders)
box 3  Misc. student papers 1978-84
VTSS Program Materials Misc. (cont.):
box 3  Adams 1986-87 (re $)
box 3  Proposals in response to Questionnaire
box 3  Program in VTSS
box 3  VTSS Office Administration
box 3  Misc. - $ (rumors)
box 3  VTSS faculty plans
box 3  MIT - Kaysen 1983
box 3  VTSS Administrative Committee
box 3  Stanford Program in Values, Technology, Science and Society [packet of publications, etc.]
VTSS Program Materials Misc. (cont.):
box 4  Info on S.U. faculty interest in VTSS issues
box 4  Princeton trip [articles re medieval masons]
box 4  Budget stuff
box 4  Senior Survey
box 4  IDM Review Committee 1987
box 4  List of interested faculty from 1983 Questionnaire
box 4  VTSS / E. Traugott
box 4  VTSS administrative
box 4  Misc. Business 1989-90
box 4  [VTSS miscellany]
box 4  [Assorted articles]
UG courses:
box 4  IE 100 (3 files; may need to be reviewed for confidential student records)
box 4  ME-9, 1959-60
box 4  ME 107, 1969-70
box 4  ME 115A, 1969-70
box 4  E9, 1968-69
box 4  E-11, 1971-72
UG courses (cont.):
box 5  E-114 1971-72
box 4  E-1 Intro to Eng., 1976-84 (several folders)
box 5  E-1 - E6 1992 (several folders)
box 5  ME 121 1998-99 (several folders)
box 5  VTSS 115
box 5  ME 114A 1967-68
box 5  E-1 Mfg. Assignments 1980
box 5  E-1 Mfg. Assignments 1983
box 5  E-1 pre-1991
box 5  E-1/VTSS 51 1993
box 5  E-1/VTSS 51 1991
box 5  E-1/VTSS 51 1992
box 5  E-1 Mfg. Assignments 1992
box 5  E-1, 6 History slides
Quality course:
box 6  ME/IE 214 assorted files, 1992-2001
box 6  1 file of photographs (class projects?)
box 6  1 file of correspondence re Adams' book publication, 1967-69
Quality course (cont.):
box 7  ME/IE 214 assorted files, 1992-94
box 7  ME 314 assorted files 2007-2008
box 7  ME 216A file
VTSS 116 War & Technology
box 6  Assorted files 1990-1998
VTSS 51-52-53 Sloan Course:
box 8  Early Work & Funding
box 8  Master copy VTSS 51-52-53 Reader
box 8  Assignments, etc., 1986-89
box 8  Miscellaneous (includes 2 photos)
box 8  VTSS 51, 1991
box 8  Course evaluations 1985-88 (3 folders)
box 8  VTSS-53 projects (photographs)
box 8  Hechinger, “The Meaning of Life” (essay on a lecture by Bob Osserman on
topology and abstract manifolds), 1987
box 8  PEW Grant expense materials, 1986
box 8  Schedules and Readings (4 folders)
box 8  Slide and illustrations
box 8  Resource material (2 folders)
VTSS 51-52-53 Sloan Course (cont.):
box 9  Resource materials (3 folders)
box 9  Correspondence, 1982-84, and Sloan essay, 1984
box 9  Sloan grants
box 9  Sloan - Quant. Literary - New liberal arts
box 9  Sloan / MIT activities
box 9  Sloan miscellaneous (3 folders)
box 9  Sloan “stuff”
box 9  Sloan / Quant. Thinking
box 9  New Liberal Arts Conference 1987
box 9  New Liberal Arts - assorted syllabi
box 9  Sloan miscellaneous (3 folders)
box 9  VTSS 51 [course binder, now in folder]
VTSS 51-52-53 Sloan Course (cont.):
box 10 VTSS 52 course binder
box 10 VTSS 53 course binder
box 10 VTSS 53 reader and handouts [binder] 1988-89
box 10 VTSS 51 reader and handouts [binder] 1988
box 10 VTSS 52 course binder
Miscellaneous graduate courses:
box 11 ME214
box 11 ME224
box 11 ME219A (includes photos)
box 11 Braille machine
Engineering School miscellaneous:
box 11 1967 Study
box 11 Writing & Speaking program 1970s
box 11 Far Out Stuff
box 11 Foreign Student Task Force
box 11 Sch of Engineering Directory 1973-74
box 11 Tau Beta Pi Teaching Survey Winter quarter 1975-76
box 11 Teaching Improvement Guide School of Engineering 1978
box 11 [Unlabelled - Loose materials]
box 11 Undergraduate Curriculum
box 11 Ellen Nold - Communications project 1979-80
box 11  Colored Billets
box 11  Course enrollments 1977-78
box 11  Manpower Stuff [faculty billets]
box 11  Planning
box 11  First Cut, 5 year plan stuff
box 11  School of Engineering Faculty & Resource Guide 1994-95 and 1997-98
box 11  School of Engineering Facts 1993-94
box 11  Academic Goals 1960-70 [includes older materials from 1940s and a photo of Dr. Nicholas Minorsky]

Engineering School miscellaneous (cont.):

box 12  Curriculum Committee, School of Engineering, minutes and correspondence
1925-46 [bound volume]
box 12  Manufacturing Study, memos, etc. 1993-95
box 12  Manufacturing Study, Adv. Board presentation slides
box 12  Manufacturing Study [assorted materials, several folders]
box 12  Assorted reports, plans, studies [not in folders]
box 12  Loose materials
box 12  JLA - viewgraphs
box 12  Grading information
box 12  Percent of teaching per quarter 1978-79
box 12  Statistics compiled for Pajaro retreat, Spring 1977-78
box 12  Slots [billets] Sch. Of Engineering
box 12  Assorted SU and Engineering publications

Engineering School miscellaneous (cont.):

box 13  Card file: resource file on information related to improving teaching and learning experiences

Mechanical Engineering Design Division:

box 13  Reorganization (memo and notes)
box 13  Photographs (mostly student projects) 1970-74 and undated
box 13  Design Division brochures and publications
box 13  Loose materials
box 13  Memo: “To the Faculty of the Design Division” from graduate students, undated
box 13  Mechanical Engineering division publications, 1992-97 and undated
box 13  Braille Machine - prints, copy 2
box 13  Design: class miscellany
box 13  Esalen etc.Winter 1967
box 13  Adams to Arnold on teaching of product design, 1960
box 13  Mexico 1975
box 13  Dreyfuss article, final, 1991
box 13  Integration of Creativity into the Mechanical Engineering Curriculum: reader and syllabus, 1989
box 13  Mfg. Course proposal 1991
box 13  The Design Academy: cover letter and summary 2002
box 13  Photographs, including those from First Design Div. Esalen weekend
box 13  Rotary Refuse Reducer Final Layout (drawing) 1970
box 13  DD/ME thinking 1995-98
box 13  Architecture
box 13  [Graduate design courses - folder with memo and design drawings 1973]
box 13  Photographs from a project
box 13  Center for Innovation at Stanford University
box 13  Stanford publications, miscellaneous
box 13  Miscellaneous class materials, correspondence
box 13  Non-Stanford publications

Industrial Engineering:

box 13  Photographs (events and people) undated
### Guide to the James L. Adams Papers SC0949

<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>IE faculty and staff photos</td>
</tr>
<tr>
<td>13</td>
<td>Students [mostly re advisory issues?]</td>
</tr>
<tr>
<td>13</td>
<td>IE stuff (memos, reports and others) 1973-75</td>
</tr>
<tr>
<td>13</td>
<td>People (IEEM faculty and staff)</td>
</tr>
<tr>
<td>13</td>
<td>IE account 1986</td>
</tr>
<tr>
<td>13</td>
<td>IE miscellany and pubs</td>
</tr>
</tbody>
</table>

#### NASA / ASEE Summer Faculty Program in Engineering Systems Design

- **Final reports:**
  - Synthetic Carbohydrate; an aid to nutrition in the future 1972
  - Wildland Fire Management (2 volumes) 1973
  - Engineering Education and a Lifetime of Learning 1974
  - Space Settlements, A Design Study 1975
  - Air Improvement Recommendations for the San Francisco Bay Area 1970
  - Design Study of a Metropolitan Air Transit System MAT 1969
  - Planning for Airport Access; an analysis of the San Francisco Bay Area 1977
  - Project Cyclops, a design study of a system for detecting extraterrestrial intelligent life 1971
  - Moonlab; preliminary design of a manned lunar laboratory 1968
  - The SAINT Project; preliminary design of an international satellite communication system 1967

- Assorted proposals, reports, booklets on the Program, 1966-76
- Publicity file
- News articles
- Moonlab - draft report
- Engineering Education and a Lifetime of Learning - draft report
- Unlabeled file of tables, illustrations

#### Stanford - Jet Propulsion Laboratory:

- Stanford-JPL interaction (correspondence and other materials) 1959-60
- JPL papers
- JPL talks
- JPL educational
- [folder of loose materials]
- Miscellaneous publications on missiles, rockets, etc.

#### Stanford Miscellany:

- Ad Hoc Faculty Information Committee 1968-69
- CTTL committee 1995-98
- Assorted publications
- Memos, clippings, and other items

#### San Jose Tech Center (The Tech Center):

- High Technology Science Center 1984
- Expo ’85 Japan (mostly pubs)
- The Tech Center - assorted correspondence, memos, newsletters etc. (3 folders)

#### James Adams’ Correspondence / chron files:

- Correspondence Sept. 1966 – Aug. 1967
- Correspondence Sept. 1967 – Aug. 1968
- Correspondence Sept. 1968 – Aug. 1969
- Correspondence Sept. 1969 – Aug. 1970
- Correspondence Sept. 1970 – July 1971
- Correspondence Sept. 1971 – Aug. 1972 (1 of 2)
- Correspondence Sept. 1971 – Aug. 1972 (2 of 2)
- Correspondence Aug. 1972 – Aug. 1973
- Correspondence Aug. 1973 – May 1974
box 16  Correspondence 1974-75
box 16  Correspondence 1975
box 16  Correspondence 1976 #1
box 16  Correspondence 1975-76 #2
box 16  Correspondence 1976-77 #1
box 16  Correspondence 1977 #2
box 16  Correspondence 1977 #3
box 16  Correspondence 1978 #1
box 16  Correspondence 1979
box 16  Correspondence Jan. 16, 1978 - Nov. 26, 1979
box 16  Correspondence Jan. 17, 1980 - June 26, 1980
box 16  Correspondence July 1, 1980 - Nov. 11, 1980
box 16  Correspondence Nov. 11, 1980 - June 23, 1981
box 17  Correspondence June 25, 1981 - March 31, 1982
box 17  Correspondence 1982
box 17  Correspondence 1983
box 17  Correspondence Jan. 3 - July 9, 1984
box 17  Correspondence 1984-85
box 17  Correspondence 1985-86

James Adams' Correspondence as Assoc. Dean:
box 17  Correspondence Oct. 1975 - June 1976
box 17  Correspondence Oct. 1975 - April 1977
box 17  Correspondence Aug. 1976 - Nov. 1977
box 17  Stanford publications with entries by Adams marked
box 17  Non-Stanford publications with entries by Adams marked
box 17  Adams, Space Technology. Volume II Spacecraft Mechanical Engineering (NASA)
box 17  NASA Technical Notes D-1211 and D-1351 by Adams (Effects of the Time Lag due to
Long Transmission Distances)
box 17  Adams, Spacecraft Engineering. Space Technology Summer Institute, California
Institute of Technology June 1964
box 17  Adams, Space Systems Engineering. Space Technology Summer Institute, UCLA June
1965
box 17  APA talk - program and notes 1967
box 17  Adams, assorted reprints and articles
box 18  Original newspapers and photocopies of news clippings

Websites 2016-2017