Guide to the James L. Adams Papers

Daniel Hartwig
Stanford University, Libraries. Department of Special Collections and University Archives
Stanford, California
October 2010
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Note
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Overview

Call Number: SC0949
Creator: Adams, James L.
Title: James L. Adams papers
Dates: 1925-2008
Bulk Dates: 1959-2008

Physical Description: 25.75 Linear feet

Summary: 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.

Language(s): The materials are in English.

Repository: Department of Special Collections and University Archives
Green Library
557 Escondido Mall
Stanford, CA 94305-6064
Email: specialcollections@stanford.edu
Phone: (650) 725-1022
URL: http://library.stanford.edu/spc

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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 them 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.

Access Terms
Adams, James L.
Stanford University. School of Engineering --Curricula.
Stanford University. School of Engineering. Faculty..
Engineering design.
Problem solving.

Accession ARCH-2009-162 Papers
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
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

PTSS Program Materials Misc. (cont.):
Box 3
Adams 1986-87 (re $)
Box 3
Proposals in response to Questionnaire
Box 3
Program in PTSS
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 PTSS 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 5
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

Guide to the James L. Adams Papers

SC0949
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
<table>
<thead>
<tr>
<th>Box</th>
<th>Description</th>
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<tbody>
<tr>
<td>11</td>
<td>Foreign Student Task Force</td>
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<td>11</td>
<td>Sch of Engineering Directory 1973-74</td>
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<td>11</td>
<td>Tau Beta Pi Teaching Survey Winter quarter 1975-76</td>
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<td>11</td>
<td>Teaching Improvement Guide School of Engineering 1978</td>
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<td>11</td>
<td>[Unlabelled - Loose materials]</td>
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<td>Undergraduate Curriculum</td>
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<td>11</td>
<td>Ellen Nold - Communications project 1979-80</td>
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<td>11</td>
<td>Colored Billets</td>
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<td>11</td>
<td>Course enrollments 1977-78</td>
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<td>11</td>
<td>Manpower Stuff [faculty billets]</td>
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<td>11</td>
<td>Planning</td>
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<td>11</td>
<td>First Cut, 5 year plan stuff</td>
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<td>11</td>
<td>School of Engineering Faculty &amp; Resource Guide 1994-95 and 1997-98</td>
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<td>11</td>
<td>School of Engineering Facts 1993-94</td>
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<td>11</td>
<td>Academic Goals 1960-70 [includes older materials from 1940s and a photo of Dr. Nicholas Minorsky]</td>
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**Engineering School miscellaneous (cont.):**

<table>
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<tr>
<th>Box</th>
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<tr>
<td>12</td>
<td>Curriculum Committee, School of Engineering, minutes and correspondence 1925-46 [bound volume]</td>
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<td>Manufacturing Study, memos, etc. 1993-95</td>
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<td>Manufacturing Study, Adv. Board presentation slides</td>
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<td>Manufacturing Study [assorted materials, several folders]</td>
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<td>Assorted reports, plans, studies [not in folders]</td>
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<td>JLA - viewgraphs</td>
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<td>Grading information</td>
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<td>Percent of teaching per quarter 1978-79</td>
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<td>12</td>
<td>Statistics compiled for Pajaro retreat, Spring 1977-78</td>
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<td>Slots [billets] Sch. Of Engineering</td>
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<td>12</td>
<td>Assorted SU and Engineering publications</td>
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**Engineering School miscellaneous (cont.):**

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<th>Box</th>
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<td>13</td>
<td>Card file: resource file on information related to improving teaching and learning experiences</td>
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**Mechanical Engineering Design Division:**

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<td>Photographs (mostly student projects) 1970-74 and undated</td>
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<td>Design Division brochures and publications</td>
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<td>13</td>
<td>Loose materials</td>
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<td>13</td>
<td>Memo: “To the Faculty of the Design Division” from graduate students, undated</td>
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<td>13</td>
<td>Mechanical Engineering division publications, 1992-97 and undated</td>
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<td>13</td>
<td>Braille Machine - prints, copy 2</td>
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<td>13</td>
<td>Design: class miscellany</td>
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<td>13</td>
<td>Esalen etc. Winter 1967</td>
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<td>13</td>
<td>Adams to Arnold on teaching of product design, 1960</td>
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<td>13</td>
<td>Mexico 1975</td>
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<td>Dreyfuss article, final, 1991</td>
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<td>13</td>
<td>Integration of Creativity into the Mechanical Engineering Curriculum: reader and syllabus, 1989</td>
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<td>Mfg. Course proposal 1991</td>
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<td>13</td>
<td>The Design Academy: cover letter and summary 2002</td>
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<td>13</td>
<td>Photographs, including those from First Design Div. Esalen weekend</td>
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<tr>
<td>13</td>
<td>Rotary Refuse Reducer Final Layout (drawing) 1970</td>
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<td>DD/ME thinking 1995-98</td>
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<td>13</td>
<td>Architecture</td>
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<td>13</td>
<td>[Graduate design courses - folder with memo and design drawings 1973]</td>
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<tr>
<td>13</td>
<td>Photographs from a project</td>
</tr>
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</table>
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
Box 13  Report from the Engineering Management Task Force to the Advisory council, Feb. 4, 1993
Box 13  IE faculty and staff photos
Box 13  Students [mostly re advisory issues?]
Box 13  IE stuff (memos, reports and others) 1973-75
Box 13  People (IEEM faculty and staff)
Box 13  IE account 1986
Box 13  IE miscellany and pubs

NASA / ASEE Summer Faculty Program in Engineering Systems Design
Final reports:
Box 14  Synthetic Carbohydrate; an aid to nutrition in the future 1972
Box 14  Wildland Fire Management (2 volumes) 1973
Box 14  Engineering Education and a Lifetime of Learning 1974
Box 14  Space Settlements, A Design Study 1975
Box 14  Air Improvement Recommendations for the San Francisco Bay Area 1970
Box 14  Design Study of a Metropolitan Air Transit System MAT 1969
Box 14  Planning for Airport Access; an analysis of the San Francisco Bay Area 1977
Box 14  Project Cyclops, a design study of a system for detecting extraterrestrial intelligent life 1971
Box 14  Moonlab; preliminary design of a manned lunar laboratory 1968
Box 14  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:
Box 15  Stanford-JPL interaction (correspondence and other materials) 1959-60
Box 15  JPL papers
Box 15  JPL talks
Box 15  JPL educational
Box 15  [folder of loose materials]
Box 15  Miscellaneous publications on missiles, rockets, etc.

Stanford Miscellany:
Box 15  Ad Hoc Faculty Information Committee 1968-69
Box 15  CTTL committee 1995-98
Box 15  Assorted publications
Box 15  Memos, clippings, and other items

San Jose Tech Center (The Tech Center):
Box 15  High Technology Science Center 1984
Box 15  Expo '85 Japan (mostly pubs)
Box 15  The Tech Center – assorted correspondence, memos, newsletters etc. (3 folders)

James Adams’ Correspondence / chron files:
Box 16  Correspondence Sept. 1966 - Aug. 1967
Box 16  Correspondence Sept. 1967 - Aug. 1968
Box 16  Correspondence Sept. 1968 - Aug. 1969
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<th>Correspondence Sept. 1969 - Aug. 1970</th>
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<td>Box 16</td>
<td>Correspondence Sept. 1970 - July 1971</td>
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<td>Box 16</td>
<td>Correspondence Sept. 1971 - Aug. 1972 (1 of 2)</td>
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<td>Box 16</td>
<td>Correspondence Sept. 1971 - Aug. 1972 (2 of 2)</td>
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<td>Box 16</td>
<td>Correspondence Aug. 1972 - Aug. 1973</td>
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<td>Box 16</td>
<td>Correspondence Aug. 1973 - May 1974</td>
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<td>Box 16</td>
<td>Correspondence 1974-75</td>
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<td>Correspondence 1975</td>
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<td>Correspondence 1976 #1</td>
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<td>Correspondence Jan. 16, 1978 - Nov. 26, 1979</td>
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<td>Box 16</td>
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<td>Correspondence July 1, 1980 - Nov. 11, 1980</td>
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<td>Correspondence Nov. 11, 1980 - June 23, 1981</td>
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<td>Box 17</td>
<td>Correspondence June 25, 1981 - March 31, 1982</td>
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<td>Correspondence 1983</td>
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<td>Box 17</td>
<td>Correspondence Jan. 3 - July 9, 1984</td>
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<td>Box 17</td>
<td>Correspondence 1984-85</td>
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<td>Box 17</td>
<td>Correspondence 1985-86</td>
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James Adams’ Correspondence as Assoc. Dean:

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