Finding Aid for the Margaret Galland Kivelson papers, 1950-2008 LSC.1790

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Online finding aid last updated 8 May 2017.
Title: Margaret Galland Kivelson papers
Identifier/Call Number: LSC.1790
Contributing Institution: UCLA Library Special Collections
Language of Material: English
Physical Description: 7.8 linear feet (19 document boxes and 1 half box)
Date (inclusive): 1950-2008

Abstract: Margaret G. Kivelson is a professor of Space Physics, Emerita in UCLA's Department of Earth and Space Sciences and the Institute of Geophysics and Planetary Physics. This collection, spanning 1950–2008, focuses on Kivelson's research on magnetospheric plasma physics of Earth, Jupiter, and Saturn; interaction of flowing plasmas with planets and moons; and ultra-low frequency waves. Included are research notes; drafts and final copies of manuscripts; correspondence with colleagues at the University of California, Harvard, JPL, NASA, and other research institutions; Kivelson’s course notes and syllabi from UCLA; correspondence with colleagues at the University of California, Harvard, JPL, NASA, and other research institutions; and documentation of events and conferences attended.

Language of Materials: Materials are in English.
Physical Location: Stored off-site at SRLF. All requests to access special collections materials must be made in advance through our electronic paging system using the "Request items" button.
Creator: Kivelson, M. G. (Margaret Galland)

Conditions Governing Access
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Preferred Citation
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Provenance/Source of Acquisition
Gift of Margaret Kivelson, 2013.

Processing Information
Processed by Angel Diaz, 2017.

Biography/History
Margaret Galland Kivelson is an astrophysicist and professor emerita at UCLA's Department of Earth, Planetary, and Space Sciences and the Institute of Geophysics and Planetary Physics. She was born in New York, NY in 1928. Her father was a physician and her mother studied physics in college and became a high school math teacher. Kivelson graduated from Radcliffe College with an AB in Physics in 1950, an AM in Physics in 1951, and a PhD in Physics in 1957 (Radcliffe College functioned as a female coordinate institution for the all-male Harvard College. A merger with Harvard began in 1977). She met and married her husband, Daniel Kivelson, while in undergraduate studies. As a doctoral student, she specialized in in quantum electrodynamics and wrote her thesis on "Bremsstrahlung of Extreme Relativistic Electrons" under the direction of Julian Schwinger.

In 1955, Kivelson's husband joined the UCLA faculty as a professor in the Department of Chemistry and Biochemistry. At that time, Kivelson accepted a part-time position with the RAND Corporation, splitting her time between raising her children and her research on equations of state at high pressure and on theoretical plasma physics. In 1965, she became an Assistant Research Geophysicist at the Institute of Geophysics at UCLA (now the Institute of Geophysics and Planetary Physics), working on problems of space physics and becoming increasingly interested in magnetospheric physics. Kivelson began teaching in the Department of Physics in 1971 and then in in the Department of Geophysics and Space Physics in 1975 (now the Department of Earth, Planetary, and Space Sciences). Her work focused on the magnetospheric plasma physics of Earth, Jupiter, and Saturn. She was principal investigator for the Orbiter Magnetometer for the Galileo Jupiter Mission, 1977-2003.
Kivelson participated and chaired faculty and administrative groups charged with identifying and resolving issues of special concern to women at UCLA, including affirmative action, child care, women's studies, and scientific careers for women in science. She served as chair of the Chancellor's Advisory Committee on the Status of Women from 1974 to 1976 and as president of the Association of Academic Women from 1976 to 1978. Kivelson is a member of the National Academy of Sciences. Her husband, Daniel Kivelson passed away in 2003. They had two children who also entered academia. Their son, Steven Kivelson is professor of physics at Stanford. Their daughter, Valerie Kivelson is an associate professor of history at the University of Michigan.

Scope and Content
This collection consists of materials related to the teaching career and professional research of UCLA Professor of Space Physics, Emerita in the Department of Earth and Space Sciences and the Institute of Geophysics and Planetary Physics, Margaret Kivelson. The papers include research notes, drafts and final copies of manuscripts, correspondence, presentation slides and notes, and grant proposals and documentation. This collection includes research correspondence, notes, and publications related to Kivelson’s work for the Galileo Jupiter Mission, as well as materials related to her work on the Status of Women in Science efforts.

Organization and Arrangement
This collections been arranged in the following series:

Series 1: Subject and administrative files, 1955-2005
Series 3: Presentations, 1965-2008
Series 5: Research files, 1950-2008
   Subseries 5.1: Graduate and fellowship notes, 1950-1967
   Subseries 5.2: Professional research files, circa 1952-2006
Series 6: Grant proposals, 1972-2008

Materials are arranged alphabetically by topic within their series, then chronologically.

Related Material
Contributions of 20th Century Women to Physics: Records of the UCLA Website, 1912-2001. Available at Library Special Collections, UCLA.
But you don’t look like a physicist oral history transcript, 1988-92: Margaret G. Kivelson. Available at Library Special Collections, UCLA.

Subjects and Indexing Terms
Kivelson, M. G.(Margaret Galland) -- Archives
University of California, Los Angeles. Institute of Geophysics and Planetary Physics--Faculty--Archives.
Galileo Project.
Women in science.
Women physicists--United States--Archives.

Series 1: Subject and administrative files. Series 1. 1955-2005
Scope and Content
This series includes materials related to Kivelson's occupation as a professor at UCLA, including biographical materials, correspondence with colleagues, committee and council participation administrative documents, sabbatical documentation and reports, and course syllabi from the Department of Earth and Space Sciences.

Box 1, Folder 1
Box 1, Folder 2
Box 1, Folders 3-4
Box 1, Folder 5
Correspondence. 1955
Box 1, Folder 6
Correspondence. 1961-1966
Box 1, Folder 7
Correspondence. 1970-1973
Series 1: Subject and administrative files. Series 1.1955-2005

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Box 2, Folder 11 Department of Earth and Space Sciences: Course syllabi. 1980
Box 2, Folder 12 Department of Earth and Space Sciences: Course syllabi and student feedback. 1983-1992
Box 3, Folder 1, Box 2, Folder 13 Department of Earth and Space Sciences: Course 261 syllabi and lecture notes. 1981
Box 3, Folder 2 Department of Earth and Space Sciences: Course 261 syllabi and notes. 1992
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Box 3, Folder 7 International Sun Earth Explorer (ISEE). Working group on internal magnetospheric structure. 1980-1981
Box 3, Folder 8 National Aeronautics and Space Administration (NASA). Atmospheric and space physics management operations working group. 1977, 1981
Box 3, Folder 9 National Science Foundation. Advisory committee for atmospheric sciences (ACAS). 1981-1983
Box 4, Folder 1 Pacific Palisades Elementary School science program 1968
Box 4, Folder 4 Sabbatical. Observatoire de Meudon. 1982-1983
Box 4, Folder 5 University of California Academic Council. Campus Advisory Committee 1981-1982
Box 4, Folder 7 Association of Academic Women (UCLA). 1976, 1978
Box 4, Folder 8 Association of Academic Women (UCLA). Encouragement of lateral transfers for women in the research series report. 1977
Box 4, Folders 9-10 Chancellor's Ad Hoc Committee on Affirmative Action (UCLA). 1981 March-1983 January
Box 5, Folder 1 Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1972, 1979
Box 5, Folders 2-3 Chancellor's Advisory Committee on the Status of Women (CACSW). Report draft with correspondence. 1974
Box 5, Folders 4-6 Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1974

Scope and Content

This series includes materials related to Kivelson's work on councils and committees on affirmative action at the University of California and for the advancement of women in science, including the Association of Academic Women (UCLA), Chancellor's Ad Hoc Committee in Affirmative Action (UCLA), Chancellor's Advisory Committee on the Status of Women in Science (UC), and the Gender Equity Ad Hoc Group (UCLA). It consists of correspondence, report drafts with annotations, final reports, programs and agendas, Kivelson's meeting notes, surveys, and publications used in research.


Box 4, Folder 7 Association of Academic Women (UCLA). 1976, 1978
Box 4, Folder 8 Association of Academic Women (UCLA). Encouragement of lateral transfers for women in the research series report. 1977
Box 4, Folders 9-10 Chancellor's Ad Hoc Committee on Affirmative Action (UCLA). 1981 March-1983 January
Box 5, Folder 1 Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1972, 1979
Box 5, Folders 2-3 Chancellor's Advisory Committee on the Status of Women (CACSW). Report draft with correspondence. 1974
Box 5, Folders 4-6 Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1974
Box 5, Folder 7  

Box 6, Folder 1  

Box 6, Folder 2  
Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1976

Box 6, Folder 3  
Chancellor's Advisory Committee on the Status of Women (CACSW). Report. 1977

Box 6, Folder 4  
Coordinating Committee on the Status of Women. Report. 1989

Box 6, Folder 5  
Correspondence. 1977-1982

Box 6, Folder 6  
Gender Equity Ad Hoc Group (UCLA). 2000 November

Box 6, Folder 7  
Gender Equity Issues Affecting Senate Faculty at UCLA. Gender Equity Committee Report. 2000

Box 6, Folder 8  
Meetings and Conferences. Working Toward Gender Equity in the Academy, University of California. 2001-2002

Box 6, Folder 9  
Meetings and Conferences. USC Provosts' Retreat for Academic Leaders. 2002

Box 6, Folder 10  
Meetings and Conferences. CalTech Women in Astronomy. 2003 June

Box 6, Folder 11  
Meetings and Conferences. UCLA Gender Equity Summit. 2004 May 17

Box 7, Folders 1-11,  

Scope and Contents note
Includes issues of: Status of Women in Physics (American Physical Society); CSWP Gazette (Committee on the Status of Women in Physics of the American Physical Society); On Campus with Women (Association of American Colleges Project on the Status and Education of Women); Report of the Committee on the Status of Women in the Faculty of Arts and Sciences (Harvard University).

Box 4, Folder 6  

Series 3: Presentations. 1965-2008

Scope and Content
Notes, presentation transparencies, correspondence, and programs from presentations made at meetings, conferences, and campus events.

Box 8, Folder 4  
Beyond sensory perception. undated.

Box 8, Folder 5  
Coming of age of comparative magnetospheric studies. 1998

Box 8, Folder 6  
Dynamical consequences of two modes of centrifugal instability in Jupiter’s outer magnetosphere. 2004, 2008

Box 8, Folder 7  
Fields, particles, and plasma interactions near the Galilean moons of Jupiter. 1999

Box 8, Folder 8  
Flux ropes, interhemispheric conjugacy, and current closure. 1995

Box 9, Folder 1  
Galileo Science Meeting. 1995

Box 9, Folder 2  
Introduction to the magnetosphere. 1973

Box 9, Folders 3-4  
Io. 1996

Box 9, Folder 6  
Io fields and particles: Highlights from Galileo, briefing to Dr. Carl Pilcher, NASA, on Galileo Millennium Mission. 2000

Box 9, Folder 7  
Is there water beneath the icy surfaces of the Galilean moons of Jupiter? 2000 March 08

Box 9, Folder 8  
Jovian synchrotron-cyclotron maser. circa 1979-1980

Box 9, Folder 9  
Jupiter’s magnetosphere, Galileo magnetometer observations. 2000 July 11

Box 10, Folder 1  
Local time variations of Jupiter’s magnetospheric structure. 2003-2004

Box 10, Folder 2  
Magnetic fields of small bodies in the solar system. 1996-1997, 2000

Box 10, Folders 3-4  
Magnetic fields in the solar system. 1999

Box 10, Folder 5  
Peering at Europa’s surface and into its interior with a magnetometer. 2000

Box 10, Folder 6  
Plasma physics presentations. 1965-1966

Box 10, Folder 7  
Probing Ganymede and its environment with a magnetometer. 2000

Box 10, Folder 8  
Regions of high density cold plasma in the outer magnetosphere. 1972-1973

Box 10, Folder 9  
Self-consistent force free model of flux ropes embedded in a neutral sheet. 1995 July

Box 11, Folder 1  
Use of four spacecraft in determining the characteristics of boundaries and surfaces. 1995-1996
### Series 3: Presentations. 1965-2008

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### Scope and Contents note

This series includes Kivelson's lecture and research notes from her graduate studies at Harvard University. This series also includes materials from Kivelson's professional work as a geophysicist at the Rand Corporation, Radcliffe Institute, and UCLA. The majority of the materials are from her work at UCLA concerning the magnetospheres of Earth and Jupiter, and include research notes, calculations, correspondence, data printouts, and meeting notes and agendas.

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<td><strong>Scope and Contents note</strong></td>
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<td>Box 11, Folder 5</td>
<td>This series contains reprints, pre-publication manuscripts, and research publications authored either solely by Kivelson or in collaboration with colleagues.</td>
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<td>Box 11, Folder 6</td>
<td><strong>Active experiments, magnetospheric modification, and a naturally occurring analog. 1973 November</strong></td>
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<td>Box 11, Folder 7</td>
<td><strong>Application of Maske's statistical density of H.O. 1956 November 19</strong></td>
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<td>Box 11, Folder 8</td>
<td><strong>Approximate analytic description of plasma bulk parameters and pitch angle anisotropy under adiabatic flow in a dipolar magnetospheric field. 1974-1975</strong></td>
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<td>Box 11, Folder 9</td>
<td><strong>Betatron acceleration. 1973</strong></td>
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<td><strong>Effects of the secular magnetic variation on the distribution function of inner-zone protons. 1972</strong></td>
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<td><strong>Magnetospheres of the Galilean satellites. 1979</strong></td>
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<td><strong>Many-body theory, draft. undated</strong></td>
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<td><strong>Note on meson-nucleon scattering. 1953 June</strong></td>
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<td><strong>Quasi-classical theory of electron correlations in atoms. 1962 August</strong></td>
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<td>Box 12, Folder 8</td>
<td><strong>Radiation smoothing of shocks. 1964-1968</strong></td>
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<td><strong>Reflection of electromagnetic waves from a rough surface. 1965 November</strong></td>
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<td><strong>Satellites studies of magnetospheric substorms. 1973</strong></td>
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<td><strong>Vorticity in the solar wind. 1978 October</strong></td>
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**Series 5: Research files. Series 5. 1950-2008**

**Scope and Contents note**

This series includes Kivelson's lecture and research notes from her graduate studies at Harvard University. This series also includes materials from Kivelson's professional work as a geophysicist at the Rand Corporation, Radcliffe Institute, and UCLA. The majority of the materials are from her work at UCLA concerning the magnetospheres of Earth and Jupiter, and include research notes, calculations, correspondence, data printouts, and meeting notes and agendas.
Subseries 5.1: Graduate and fellowship notes. 1950-1967

Scope and Content
This subseries includes Kivelson's handwritten notes from her graduate courses and dissertation work, as well as notes from lectures attended while on fellowship at the Radcliffe Institute for Independent Study.

Box 12, Folder 15 Advanced quantum mechanics. F. J. Dyson lecture notes. 1951
Box 12, Folder 16 Advanced quantum mechanics. J. Schwinger class notes. 1952
Box 12, Folder 17 Feynman, Richard lectures. 1965, 1967
Box 13, Folder 1 Field theory. J. Schwinger class notes. 1952
Box 15, Folder 10 Martin lectures. 1965-1966
Box 13, Folder 3 Nuclear physics. J. Schwinger class notes. 1955
Box 13, Folder 4 Nuclear physics II. J. Schwinger class notes. 1955
Box 13, Folders 5-6 Quantum mechanics. J. Schwinger class notes. 1950-1952
Box 13, Folder 7 Seminar notes. 1967
Box 13, Folder 8 Theory of coupled fields class notes. 1954
Box 13, Folder 9 Waveguides notes. circa 1951-1952

Subseries 5.2: Professional research files. circa 1952-2006

Scope and Content
This subseries includes materials from Kivelson's professional research carried out at UCLA in the Institute of Geophysics and Planetary Physics and in the Department of Earth and Space Sciences. Materials include research notes, correspondence, and research data and reports.

Box 14, Folder 1 Acceleration mechanisms. circa 1966
Box 14, Folder 2 Betatron acceleration. 1973-1976
Box 14, Clusters Mission. 1986-2006
Box 14, Folders 3-4 Cluster spacecraft, magnetic cleanliness. 1989-1990
Box 14, Folder 5 Crit point notes. circa 1966
Box 14, Folder 6 Dirac delta-function and summation of Fourier series. circa 1952
Box 14, Folder 7 Galileo magnometer. 1978
Box 14, Folders 8-9 Galileo magnometer data. circa 1974-1976
Box 14, Folders 10-11 Galileo PLS data. 1990-1992
Box 15, Folder 1 Galileo magnometer. UCLA proposal to NASA. 1976 November
Box 15, Folder 5 International Sun-Earth Explorer (ISEE). Newsletters. 1976-1981
Box 15, Folder 6 Interplanetary magnetic fields. 1973-1977
Box 15, Folder 7 Ion mode in plasma. 1963-1964
Box 15, Folder 8 Jupiter notes. 1967-1968
Box 15, Folder 9 Pioneer 11 Jupiter. 1974-1977
Box 16, item 1 Plasma energy data. undated
Box 15, Folder 12 Plasma notes. circa 1964
Box 15, Folder 13 Quantum mechanics, formulas. undated
Box 16, Folder 1 Space, general informational and publicity materials. 1976-1982
Box 15, Folder 14 Statistical theory of atoms with non-zero total electron spin. circa 1957
Box 16, Folder 2 Structure and dynamics of the Jovian magnetosphere. 1977 July
Box 16, Folder 3 VAX 8600 computer. 1988
Box 16, Folder 4 Venus. circa 1980
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Series 5: Research files. Series 5.1950-2008
Subseries 5.2: Professional research files. circa 1952-2006

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Scope and Contents note
This series includes materials related to research grants, including proposal text, correspondence, administrative documents, and reports. The majority of the grants were funded by the National Aeronautics and Space Administration (NASA) and the National Science Foundation (NSF).

Scope and Contents note
Concerning Pioneer 10 and Pioneer 11 spacecraft.

General Physical Description note: 2 folders.
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