



Michael W. Friedlander Papers

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Finding aid written in English

Describing Archives: A Content Standard

University Archives

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<https://library.wustl.edu/collecting-area/archives/>

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Summary Information

Collecting Area: University Archives
Creator: Friedlander, Michael W.
Title: Michael W. Friedlander Papers
Identifier: WUA-03-wua00444
Date: 1861-2014

Physical Description: 17 linear feet

Physical Description: 17 boxes

**Language of
Materials:** English

Digital Object: https://aspace.wustl.edu/repositories/4/digital_objects/1360

Scope and Contents

Additional materials are actively being added to the finding aid.

This collection contains a broad range of materials including correspondence and publications, restricted Academic Freedom and Faculty Senate documents, course content and teaching materials, research related information and photographs, and a variety of audiovisual materials related to Washington University, its Physics Department, and the life and work of Michael Wulf Friedlander.

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

The Michael Friedlander Papers are arranged by subject matter.

Series 1: Washington University Materials

Series 2: Research Materials

Series 3: Publications by Friedlander

Series 4: Publications by Others

Series 5: Personal Papers of Others

Series 6: Audiovisual Materials

Conditions Governing Access

Some restrictions including Series 1.6 Academic Freedom and Series 1.7 Faculty Senate Materials. Please

contact [University Archivist](#) for more details.

Conditions Governing Use

Users of the collection must read and agree to abide by the rules and procedures set forth in the Materials Use Policies.

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Source of Acquisition

Accession number WUA2019-009. Donated by Jessica Friedlander, Michael's widow.

Accession number WUA2021-026. Donated by Jessica Friedlander, Michael's widow.

Processing Information

Processed by Emily Alberts, 2022.

Preferred Citation

[Item description]. From the [collection title, series, box, folder]. University Archives, Washington University in St. Louis.

Related Materials

See also: wua00018 Committee for Nuclear Information and Committee for Environmental Information Records, wua00041 Harold Rosenthal Papers, wua00110 Alexander Langsdorf Papers, wua00171 Arthur Holly Compton Personal Papers, wua00298 Faculty Senate Papers, wua00330 Washington University Observatory Collection, wua00349 Washington University Technology Associates Records, wua00464 Arthur Hughes Papers, and wua00472 Department of Physics Records.

Biographical Note

Michael W. Friedlander was born in Cape Town, South Africa on November 15, 1928. He attended the University of Cape Town where he earned both his bachelor's and Master's degrees in Physics and Applied Mathematics with honors, and then served as an assistant lecturer at the university for two years. Friedlander then attended the University of Bristol in 1952, where he would achieve his PhD in Physics. While working

under Nobel Prize winner Cecil F. Powell, Friedlander focused his studies on particle physics and nuclear science.

On August 1, 1956, Friedlander accepted an Associate Professor position at Washington University in St. Louis, Missouri. Here he focused his efforts toward reproducing the Cosmic Ray Laboratory and his research into infrared and gamma ray astronomy, which he had been involved with at the University of Bristol. His work led to the discovery of the Beta Decay of the K⁺ meson and the first measurement of the mass of the lambda-zero hyperon. By 1967, he had earned full professorship at Washington University and became heavily involved with its Physics Department, Faculty Senate, Arts and Sciences Department, as well as its student body.

Friedlander would continue to remain highly involved with Washington University even while serving as president of the St. Louis branch of the American Association of University Professors and Vice-President of the national A.A.U.P. He chaired the University's Library Services Committee, oversaw the building of the Physics Library, and scientific research conducted at the Crow Observatory. Additionally, Friedlander oversaw research into Cosmic Rays and conducted experimental balloon flights in isolated places in the United States, Canada, and central South Africa. He became involved in the St. Louis "Baby Tooth Survey" performed by the Committee for Nuclear Information (C.N.I.) of which he served as an executive member, concluding that children close to nuclear testing sites were testing positive for radioactive particles. This test would come to lead to the passing of the above-ground Nuclear Test Ban Treaty of 1963. Friedlander continued his efforts as a physicist, educator, and public activist throughout the rest of his career.

On April 29, 2021 Friedlander passed away at the age of 92.

For more information about Professor Michael Friedlander visit his son, David Friedlander's web page.

[Michael W. Friedlander: A Memorial Tribute Website](#)

Administrative Information

Publication Statement

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Controlled Access Headings

Collection Inventory

Series 1: Washington University Materials

Box 1 (Text)
Box 2 (Text)
Box 3 (Text)
Box 4 (Text)
Box 5 (Text)
Box 6 (Text)
Box 7 (Text)
Box 8 (Text)
Box 9 (Text)
Box 10 (Text)
Box 11 (Text)

Arrangement

Arranged alphabetically by folder title.

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Series 1, Sub-Series 1: Committee Materials

Box 1 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Center for Archaeometry, Folder 1 of 3, 1973-1990

Box 1; Folder 1 (Text)

Description

Includes material related to the formation and operation of the Center for Archaeometry established at Washington University. Materials consist of: correspondence, Michael Friedlander's notes as President of the Center, newsletters, invitations, project proposals, grant applications, publications, and information on patination.

Folder title supplied by Archivist.

Center for Archaeometry, Folder 2 of 3, 1973-1990

Box 1; Folder 2 (Text)

Description

Includes material related to the formation and operation of the Center for Archaeometry established at Washington University. Materials consist of: correspondence, Michael Friedlander's notes as President of the Center, newsletters, invitations, project proposals, grant applications, publications, and information on patination.

Folder title supplied by Archivist.

Center for Archeometry, Folder 3 of 3, 1973-1990

Box 1; Folder 3 (Text)

Description

Includes material related to the formation and operation of the Center for Archaeometry established at Washington University. Materials consist of: correspondence, Michael Friedlander's notes as President of the Center, newsletters, invitations, project proposals, grant applications, publications, and information on patination.

Folder title supplied by Archivist.

"Science and Society Seminar" Notes, 1969

Box 1; Folder 4 (Text)

Description

Contains articles, notes, and meeting schedules for the Science and Society group in St. Louis. This group met to discuss "secret research" and its place in univeristies, as well as the "scientist's role in society."

Series 1, Sub-Series 2: Other Washington University Materials

Box 1 (Text)
Box 1 (Object)
Box 2 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

"Astronomy Assistants", 1968-1996

Box 1; Folder 5 (Text)

Description

Includes materials pertaining to graduate students assisting in the research at the Crow Observatory at Washington University. These materials include rosters of these assistants, correspondence and memos, handwritten notes, and instructions on how to operate the observatory.

"Astronomy-Observatory," Folder 1 of 3, 1939-1985

Box 1; Folder 6 (Text)

Description

Consists of materials related to the Washington University observatory such as various correspondence, invoices, newspaper articles, photographs, published journals and bibliographies, operating instructions, and documented observations from the observatory.

"Astronomy-Observatory," Folder 2 of 3, 1939-1985

Box 1; Folder 7 (Text)

Description

Consists of materials related to the Washington University observatory such as various correspondence, invoices, newspaper articles, photographs, published journals and bibliographies, operating instructions, and documented observations from the observatory.

"Astronomy-Observatory," Folder 3 of 3, 1939-1985

Box 1; Folder 8 (Text)

Description

Consists of materials related to the Washington University observatory such as various correspondence, invoices, newspaper articles, photographs, published journals and bibliographies, operating instructions, and documented observations from the observatory.

"Astronomy Reports: Notes of W.H. Roever", 1890-1901

Box 1; Folder 9 (Text)

Description

Included are notes, calculations, and observations from American mathematician William Henry Roever, who taught astronomy at Washington University. Also included are mentions of Dr. E. A. Engler, the Office of Indian Affairs, and the Washington University Observatory.

"Bulletin of Washington University St. Louis" by Washington University, March 1914

Box 1; Folder 11 (Text)

Description

A bound copy of the "Fifty-Seventh Annual Catalogue," a bulletin published by Washington University in 1914. This particular publication is titled Series II, Volume XII, Number V. Its contents include information about departments, courses and their requirements, academic calendars, and University government and policy changes.

Button Pins, undated

Box 1; Folder 12 (Object)

Description

Seven button pins of various size and subject matter. The first is an orange circular pin that reads "Engineers 80 Weekend." The second pin is also circular in shape, with a white background and green font reading "Give the Earth a Chance! Coalition For The Environment." Another large, white, circular pin states "Washington University is feeling 7Up, Homecoming 1981" in red font. The next two pins are both smaller, but circular. One has a white back ground and green font that reads "Go For It! WashU '80," and the other is yellow with red font that reads "Say Hi!" The final two pins are square in shape, and both are similar in subject matter and push to "Free Howard Mechanic."

Folder title supplied by Archivist.

Compton/Ferguson Lectures, Folder 1 of 3, 1973-2014

Box 1; Folder 13 (Text)

Description

Comprised of documents regarding the Compton/Ferguson lectures held at Washington University as a part of the university's Assembly Series Lectures. Their contents include correspondence, contact sheets of suggested lecture speakers and their biographical information and professional achievements, memorandums, fliers, published articles, budget summaries and Friedlander's endowment notes.

Folder title supplied by Archivist.

Compton/Ferguson Lectures, Folder 2 of 3, 1973-2014

Box 1; Folder 14 (Text)

Description

Comprised of documents regarding the Compton/Ferguson lectures held at Washington University as a part of the university's Assembly Series Lectures. Their contents include correspondence, contact sheets of suggested lecture speakers and their biographical information and professional achievements, memorandums, fliers, published articles, budget summaries and Friedlander's endowment notes.

Folder title supplied by Archivist.

Compton/Ferguson Lectures, Folder 3 of 3, 1973-2014

Box 2; Folder 1 (Text)

Description

Comprised of documents regarding the Compton/Ferguson lectures held at Washington University as a part of the university's Assembly Series Lectures. Their contents include correspondence, contact sheets of suggested lecture speakers and their biographical information and professional achievements, memorandums, fliers, published articles, budget summaries and Friedlander's endowment notes.

Folder title supplied by Archivist.

Crow Hall, 1892-1976

Box 2; Folder 2 (Text)

Description

Includes the following materials related to the construction of Crow Hall at Washington University: floor plans, newspaper clippings, and published journals. Also included are some materials related to the research conducted there and its renovation in the 1970s.

Folder title supplied by Archivist.

Crow Observatory, 1857-1982

Box 2; Folder 3 (Text)

Description

An overview of the history of Washington University's observatory, the histories of Mathematics and Astronomy at the university, and documents supporting the need for an observatory post. This is presented through newspaper clippings, correspondence, and copies of quotes from university faculty.

Folder title supplied by Archivist.

Dick Norberg, 1954-2002

Box 2; Folder 4 (Text)

Description

Includes materials related to Dr. Richard E. (Dick) Norberg, physics professor at Washington University and his 80th birthday celebration. These materials include photographs, and correspondence.

Folder title supplied by Archivist.

"Jessica Stephens Young", 2006

Box 2; Folder 5 (Text)

Description

Includes email correspondence regarding the works of Jessica Stephens Young, professor of Astronomy at Washington University and her representation in a W.U. newsletter. Also included is a copy of a publication written by her.

"Merle Kling Photos", 2008

Box 2; Folder 6 (Text)

Description

Includes photo proof sheets of Washington University Dean, Merle Kling, who had passed in 2008. Also included is a correspondence between Michael Friedlander and a woman addressed as Elaine (no last name included), regarding the proof sheets and the dimensions of the photos that Michael wanted to be printed.

"M.L.A/Reviews, Comments", 1988-1994

Box 2; Folder 7 (Text)

Description

Includes materials related to the Master of Liberal Arts program at Washington University, including a pamphlet, student essays and evaluations, and correspondence related to the M.L.A. program.

"Radicals" , April 1970

Box 2; Folder 8 (Text)

Description

This folder consists of Washinton Univsersity documentation regarding student protests against an R.O.T.C. presence on campus at the start of the 1970s, in response to Kent State. Included within are newspapers, a booklet titled "SMASH R.O.T.C.," related correspondence and resolutions from the Senate Faculty Council, and school distributed statements to students.

"Report of the Committee to study...R.O.T.C. to Washington University", March 1, 1991

Box 2; Folder 9 (Text)

Description

Bound report submitted to the provost of Washington University, which studied the relationship between the R.O.T.C. and the university.

"Rosebury and W.E.B. Du Bois Club", 1965-1968

Box 2; Folder 10 (Text)

Description

This folder contains correspondence, newspaper copies, and open letters written by members of the faculty in defense for Washington University professor Theodore Rosebury. The St. Louis Globe Democrat attacked Rosebury for being a "Communist Sympathizer" in 1965. Also included are documents regarding the creation of the "The Washington University W.E.B. Du Bois Club," a student led communist organization that was initially rejected by the Board of Student Affairs in 1966, but passed a year later.

R.O.T.C. Debate, Folder 1 of 2, 1969-1970

Box 2; Folder 11 (Text)

Description

Includes various documents such as handwritten correspondence and newspaper clippings, related to the controversial closure of the R.O.T.C. program at Washington University in 1970.

Folder title supplied by Archivist.

R.O.T.C. Debate, Folder 2 of 2, 1969-1970

Box 2; Folder 12 (Text)

Description

Includes various documents such as handwritten correspondence and newspaper clippings, related to the controversial closure of the R.O.T.C. program at Washington University in 1970.

Folder title supplied by Archivist.

"Scrap Book" Newspaper Clippings, 1970-1978

Box 2; Folder 13 (Text)

Description

A collection of newspaper clippings glued into a scrapbook, centered around student and faculty anti-war protests on campus, the burning of the school's R.O.T.C. building, suspension of R.O.T.C. presence on campus, and national reaction to Washington University protests in the 1970s. In the back of the book, there are several copies of a correspondence chain between Washington University Chancellor Thomas Eliot and Deveraux Kennedy, as well as a student protest poster and strike demands.

"Sesquicentennial Open House", 2003

Box 2; Folder 14 (Text)

Description

Includes materials related to a lecture series covering the following topics: introductory physics courses, dark matter, and the development of science and civilization. Also included are proposals for funding the Sesquicentennial of Washington University and for the restoration of the Fauth Transit Telescope, and the Crow Observatory.

"Transit" Folder 1 of 2, 1905-2003

Box 2; Folder 15 (Text)

Description

Includes material related to the Fauth Transit tower, its restoration, and exhibition at the Missouri History Museum. These materials include photographs, correspondence, published articles, reports and designs.

"Transit" Folder 2 of 2, 1905-2003

Box 2; Folder 16 (Text)

Description

Includes material related to the Fauth Transit tower, its restoration, and exhibition at the Missouri History Museum. These materials include photographs, correspondence, published articles, reports and designs.

"Washington University History Part I" by Alexander S. Langsdorf, 1853-1953

Box 2; Folder 17 (Text)

Description

Includes bibliographic information regarding Washington University's history, William G. Eliot and Wayman Crow's detailed backstory and how they constructed the university. This was included as part one of a three part, typed history.

"Washington University History Part II and III" by Alexander S. Langsdorf, 1853-1953

Box 2; Folder 18 (Text)

Description

Includes biographical information regarding Washington University's history, William G. Eliot and Wayman Crow's detailed backstory, and how they constructed and gathered funding for the university. This was included as part II and III of Washington University's typed history.

Washington University and History, 1861-2004

Box 2; Folder 19 (Text)

Description

A variety of sources that capture Washington University's role in a broader history. Includes a scanned letter between university founder William Greenleaf Eliot and Missouri Civil War figure Major John McAlister Schofield, discussions of Professor Arthur L. Hughes' contributions to scientific understanding through his cyclotron research, as well as an article detailing the role of Washington University in developing atomic weapons.

Folder title supplied by Archivist.

Series 1, Sub-Series 3: Physics Department

Box 3 (Text)

Box 4 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Arthur L. Hughes, Folder 1 of 5, 1948-1995

Box 3; Folder 1 (Text)

Description

Consists of Washington University professor Arthur L. Hughes' papers. These documents include newspaper clippings, department birthday and memorial party invites, correspondences, Physics Department position reappointment letters, and Hughes' personal publications.

Folder title supplied by Archivist.

Arthur L. Hughes, Folder 2 of 5, 1948-1995

Box 3; Folder 2 (Text)

Description

Consists of Washington University professor Arthur L. Hughes' papers. These documents include newspaper clippings, department birthday and memorial party invites, correspondences, Physics Department position reappointment letters, and Hughes' personal publications.

Folder title supplied by Archivist.

Arthur L. Hughes, Folder 3 of 5, 1948-1995

Box 3; Folder 3 (Text)

Description

Consists of Washington University professor Arthur L. Hughes' papers. These documents include newspaper clippings, department birthday and memorial party invites, correspondences, Physics Department position reappointment letters, and Hughes' personal publications.

Folder title supplied by Archivist.

Arthur L. Hughes, Folder 4 of 5, 1948-1995

Box 3; Folder 4 (Text)

Description

Consists of Washington University professor Arthur L. Hughes' papers. These documents include newspaper clippings, department birthday and memorial party invites, correspondences, Physics Department position reappointment letters, and Hughes' personal publications.

Folder title supplied by Archivist.

Arthur L. Hughes, Folder 5 of 5, 1948-1995

Box 3; Folder 5 (Text)

Description

Consists of Washington University professor Arthur L. Hughes' papers. These documents include newspaper clippings, department birthday and memorial party invites, correspondences, Physics Department position reappointment letters, and Hughes' personal publications.

Folder title supplied by Archivist.

Crow Observatory Photographs, Folder 1 of 2, 1964

Box 3; Folder 6 (Text)

Description

Collection of black and white photographs related to work at the Crow Observatory at Washington University by graduate students and faculty. Also included are index cards with typed subject notes and photo descriptions.

Folder title supplied by Archivist.

Crow Observatory Photographs, Folder 2 of 2, 1964

Box 3; Folder 7 (Text)

Description

Collection of black and white photographs related to work at the Crow Observatory at Washington University by graduate students and faculty. Also included are index cards with typed subject notes and photo descriptions.

Folder title supplied by Archivist.

Department of Physics Correspondence, 1999-2014

Box 3; Folder 8 (Text)

Description

Contains email and letter correspondence from various members of the Washington University Department of Physics, including letters about former professors, faculty reunions, and requests for collaborations amongst the faculty.

Folder title supplied by Archivist.

Eugene Feenberg and Lectures, 1933 and 2004

Box 3; Folder 9 (Text)

Description

Included are correspondence from Michael Friedlander to the United States Holocaust Memorial Museum archives asking if they would like to house Washington University professor Eugene Feenberg's letter that he wrote in 1933 condemning Nazism. Also included are several photocopies of Feenberg's letter and biographical information written about him.

Folder title supplied by Archivist.

Faculty Photograph Collection, 1989

Box 3; Folder 10 (Text)

Description

Includes photographs of Washington University faculty in various sizes. Names handwritten on the back.

Folder title supplied by Archivist.

"Frank Shull Retirement", 1988

Box 3; Folder 11 (Text)

Description

Largely consists of typed and handwritten correspondence related to Frank Shull's retirement from Washington University's Physics Department.

M.L.A. Science Courses, 1983-1994

Box 3; Folder 12 (Text)

Description

Includes documents from science courses in the Masters of Liberal Arts program at Washington University. These documents include course descriptions and schedules, correspondence, grade information, class rosters, text book selections required for the following classes: Science and Society, Science, Pseudo-Science, Creation Science, History of Science, and Physics and Controversy.

Folder title supplied by Archivist.

Newsletters, Folder 1 of 2, 1998-2014

Box 3; Folder 13 (Text)

Description

Contains copies of newsletters published by Washington University's Physics Department spanning from 1998-2014. Two duplicate copies included.

Folder title supplied by Archivist.

Newsletters, Folder 2 of 2, 1998-2014

Box 3; Folder 14 (Text)

Description

Contains copies of newsletters published by Washington University's Physics Department spanning from 1998-2014. Two duplicate copies included.

Folder title supplied by Archivist.

"Older Faculty, News.", 1964 and 2012

Box 3; Folder 15 (Text)

Description

Includes biographies, typed and handwritten correspondence, and oral transcripts related to former Washington University faculty members Carl Eckhart and Arthur Hughes.

Physics Department Members, 2013

Box 3; Folder 16 (Text)

Description

Includes biographical notes, publications, and photographs pertaining to members of Washington University's Physics Department, and the research that they have conducted.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 1 of 6, 1935-2000

Box 3; Folder 17 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 2 of 6, 1935-2000

Box 3; Folder 18 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 3 of 6, 1935-2000

Box 4; Folder 1 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 4 of 6, 1935-2000

Box 4; Folder 2 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 5 of 6, 1935-2000

Box 4; Folder 3 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

Physics Department Photographs, Folder 6 of 6, 1935-2000

Box 4; Folder 4 (Text)

Description

Includes black and white, and color photographs of students and members of Physics Department faculty in various sizes, photograph identification guides, and correspondence.

Folder title supplied by Archivist.

"Physics for Anti-Physicists" Lecture Series, 1967

Box 4; Folder 5 (Text)

Description

Includes correspondence related to the "Physics for Anti-Physicists" lecture series, as well as a schedule and brief overview of the talks given.

"Roland Quest WU (Phys) 1937", 1993 and 2001

Box 4; Folder 6 (Text)

Description

Materials pertaining to the life and work of Washinton University professor of Physics, Roland Quest. These materials include: correspondence, published articles, handwritten notes, and a typed biography about Quest.

"Scanners", 1960-1965

Box 4; Folder 7 (Text)

Description

Includes material related to graduate student research positions at Washington University. This material largely consists of correspondence, but also includes Friedlander's handwritten notes, charts, and position instructions.

"Varney", 1990-2011

Box 4; Folder 8 (Text)

Description

Materials pertaining to the life and work of Robert Varney, molecular physicist at Washington University. These materials include: correspondence, published articles, handwritten notes, a photograph, and biography of Varney.

Washington University Alumni, Folder 1 of 3, 1988-2015

Box 4; Folder 9 (Text)

Description

Consists of materials collected about alumni of the Washington University Physics Department. These materials include photographs, correspondence, rosters and contact information, news articles, graduate program data, and written anecdotes.

Folder title supplied by Archivist.

Washington University Alumni, Folder 2 of 3, 1988-2015

Box 4; Folder 10 (Text)

Description

Consists of materials collected about alumni of the Washington University Physics Department. These materials include photographs, correspondence, rosters and contact information, news articles, graduate program data, and written anecdotes.

Folder title supplied by Archivist.

Washington University Alumni, Folder 3 of 3, 1988-2015

Box 4; Folder 11 (Text)

Description

Consists of materials collected about alumni of the Washington University Physics Department. These materials include photographs, correspondence, rosters and contact information, news articles, graduate program data, and written anecdotes.

Folder title supplied by Archivist.

Washington University Physics Department History, 1880-2012

Box 4; Folder 12 (Text)

Description

Includes historical timelines, biographies, newspaper articles and publications, handwritten notes, film negatives, correspondence, and historical summaries written by Michael Friedlander.

Folder title supplied by Archivist.

"W.U. Halley's Comet", 1910

Box 4; Folder 13 (Text)

Description

Includes black and white photographs of the comet, and square glass projector plates.

Series 1, Sub-Series 4: Teaching Materials

Box 4 (Text)

Box 5 (Text)

Box 6 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

"Astronomy Continuing Education", 1975

Box 4; Folder 14 (Text)

Description

Includes documents pertaining to Friedlander's Astronomy course such as a course offering pamphlet, course bibliography, and both his typed and handwritten calculations and lecture notes.

"Continuing Education/Astronomy", 1975 and 1976

Box 4; Folder 15 (Text)

Description

Includes course selection pamphlet from the Arts, Sciences, and Humanities departments, as well as a course bibliography.

Creation and Psuedoscience, Folder 1 of , 1981-1993

Box 4; Folder 16 (Text)

Description

Includes proposals for Friedlander's Creation Science course, its planned schedule, and correspondence from Friedlander to the A.A.U.P., requesting class copies of their creation science magazines.

Folder title supplied by Archivist.

"General Studies/Archaeoastronomy", 1978

Box 4; Folder 17 (Text)

Description

Includes a course proposal application, a general studies course offering guide, class bibliography, and course outlines.

General Studies 385, 1972-1976

Box 4; Folder 18 (Text)

Description

Includes documentation about Friedlander's General Studies class such as course schedules, suggested books and readings, copies of published articles, handwritten notes, and a course selection brochure.

"GeSt 195: Energy in Our Society", 1974

Box 4; Folder 19 (Text)

Description

Includes documents related to establishing Friedlander's General Studies discussion based class about energy. Some of these documents include course proposals, provisional schedules, and discussion questions.

"GeSt 223: Science and Society", 1969

Box 4; Folder 20 (Text)

Description

Includes documents related to the General Studies course titled "Science and Society," which consists of Friedlander's notes, correspondence, and class meeting schedules.

"GeSt 385", 1976

Box 4; Folder 21 (Text)

Description

Includes special topics for term papers, and provisional course schedules.

"High School Lectures", 1975

Box 4; Folder 22 (Text)

Description

Includes documents pertaining to the lecture series given for St. Louis public high schools and held by Washington University's Science Department, as well as the science open houses that the department hosted at the university. These documents include invitations, correspondence, lecture outlines, printed maps of the university, and event agendas.

"MIT Notes: 117-118", 1964-1965

Box 4; Folder 23 (Text)

Description

Includes dated lecture notes for Physics classes between 1964 and 1965, as well as physics problems, typed lecture notes, and typed course review notes.

MWF Lecture Notes, 1958-1960

Box 4; Folder 24 (Text)

Description

A series of Michael Friedlander's handwritten notes, related to several topics in Physics.

Folder title supplied by Archivist.

"Physics 101", 1980

Box 4; Folder 25 (Text)

Description

Includes the final exam and answer sheet, and the required textbooks list for the course.

"Physics 101-102: Notes", 1979

Box 4; Folder 26 (Text)

Description

Includes course schedules, reading references, and chapter notes written by Michael Friedlander.

"Physics 101-102" , 1977-1980

Box 4; Folder 27 (Text)

Description

Includes lecture notes, and Friedlander's course outlines.

"Physics 102", 1980

Box 5; Folder 1 (Text)

Description

Includes copy of the final exam.

Physics 102, Folder 1 of 2, 1981

Box 5; Folder 2 (Text)

Description

Includes copies of exams, and term paper instructions.

Folder title supplied by Archivist.

"Physics 117-118/221: Astronomy Experiments," undated

Box 5; Folder 3 (Text)

Description

Includes related readings, typed notes and calculations, as well as lab experiment instructions.

Physics 117-118, Folder 1 of 4, 1959-1965

Box 5; Folder 4 (Text)

Description

Consists of documentation from Friedlander's Physics 117-118 course. These documents problem sets and answer keys, and handwritten and typed supplementary notes.

Folder title supplied by Archivist.

Physics 117-118, Folder 2 of 4, 1959-1965

Box 5; Folder 5 (Text)

Description

Consists of documentation from Friedlander's Physics 117-118 course. These documents problem sets and answer keys, and handwritten and typed supplementary notes.

Folder title supplied by Archivist.

Physics 117-118, Folder 3 of 4, 1959-1965

Box 5; Folder 6 (Text)

Description

Consists of documentation from Friedlander's Physics 117-118 course. These documents problem sets and answer keys, and handwritten and typed supplementary notes.

Folder title supplied by Archivist.

Physics 117-118, Folder 4 of 4, 1959-1965

Box 5; Folder 7 (Text)

Description

Consists of documentation from Friedlander's Physics 117-118 course. These documents problem sets and answer keys, and handwritten and typed supplementary notes.

Folder title supplied by Archivist.

Physics 125: Solar System Astronomy, 1978

Box 5; Folder 8 (Text)

Description

Includes course related documents such as provisional lecture schedules, and text book requirement sheets.

Folder title supplied by Archivist.

Physics 125-126, Folder 1 of , 1968-2001

Box 5; Folder 9 (Text)

Description

Includes course schedules and syllabus copies, blank exam copies, correspondence, published articles and course notes, as well as graded problem sets.

Folder title supplied by Archivist.

Physics 125-126, Folder 2 of , 1968-2001

Box 5; Folder 10 (Text)

Description

Includes course schedules and syllabus copies, blank exam copies, correspondence, published articles and course notes, as well as graded problem sets.

Folder title supplied by Archivist.

Physics 125-126, Folder 3 of , 1968-2001

Box 5; Folder 11 (Text)

Description

Includes course schedules and syllabus copies, blank exam copies, correspondence, published articles and course notes, as well as graded problem sets.

Folder title supplied by Archivist.

Physics 125-126, Folder 4 of , 1968-2001

Box 5; Folder 12 (Text)

Description

Includes course schedules and syllabus copies, blank exam copies, correspondence, published articles and course notes, as well as graded problem sets.

Folder title supplied by Archivist.

"Physics 141: Halley's Comet," Folder 1 of 2, 1985-1986

Box 5; Folder 13 (Text)

Description

"Physics 141: Ophthalmic Optics", 1978

Box 5; Folder 14 (Text)

Description

Includes course schedule and outline, and a list of special topics for term papers.

"Physics 142: Special Relativity", 1975

Box 5; Folder 15 (Text)

Description

Includes Friedlander's course schedule and provisional notes for the course.

Physics 171, 1994-1995

Box 5; Folder 16 (Text)

Description

Includes published articles and supplementary course notes, homework sets, review guides, exam copies, and course schedules and a syllabus.

Folder title supplied by Archivist.

Physics 216, 1978-1992

Box 5; Folder 17 (Text)

Description

Includes documentation from Friedlander's Physics 216 Special Relativity course, taught from 1978 to 1992. These materials consist of correspondence, reading references and copied articles, and Friedlander's lecture notes.

Folder title supplied by Archivist.

"Physics 222: Lab", 1976

Box 5; Folder 18 (Text)

Description

Includes a course outline, as well as a letter written by Friedlander to his students requesting course feedback.

"Physics 222: Optics", 1977

Box 5; Folder 19 (Text)

Description

Includes a copy of the course syllabus.

"Physics 222: Optics Lab", 1978

Box 5; Folder 20 (Text)

Description

Includes course syllabus.

"Physics 242: Special Relativity", 1977

Box 5; Folder 21 (Text)

Description

Includes instructions for term papers required by the course.

Physics 301-302, Folder 1 of 4, 1966-1971

Box 5; Folder 22 (Text)

Descriptions

This file pertains dated lecture notes for both undergraduate and graduate Physics classes.

Folder title supplied by Archivist.

Physics 301-302, Folder 2 of 4, 1966-1971

Box 5; Folder 23 (Text)

Description

This file pertains dated lecture notes for both undergraduate and graduate Physics classes.

Folder title supplied by Archivist.

Physics 301-302, Folder 3 of 4, 1966-1971

Box 5; Folder 24 (Text)

Description

This file pertains dated lecture notes for both undergraduate and graduate Physics classes.

Folder title supplied by Archivist.

Physics 303A, Folder 1 of , 1991-1992

Box 5; Folder 25 (Text)

Description

Includes documentation related to the Physics 303 course taught by Michael Friedlander, including copies of assigned readings, course syllabus and schedule, in-class paper topic ideas, lecture notes, and assigned homework problem sets and worksheets.

Folder title supplied by Archivist.

Physics 304A, 1993-1997

Box 6; Folder 1 (Text)

Description

Consists of course related documents such as assignments, correspondence, deadline lists and course schedules.

Folder title supplied by Archivist.

Physics 312, Folder 1 of , 1965-1991

Box 6; Folder 2 (Text)

Description

Includes documentation from Friedlander's Physics 312 course from 1965 to 1991. These materials consist of correspondence, reading references and copied articles, Friedlander's lecture notes, faculty memos, and course interest registration forms.

Folder title supplied by Archivist.

Physics 316 , 1979-1986

Box 6; Folder 3 (Text)

Description

Includes documentation from Friedlander's Physics 316 Optics Lab course. These materials consist of correspondences, reading references and copied articles.

Folder title supplied by Archivist.

Physics 411-412, Folder 1 of 2, 1959-1988

Box 6; Folder 4 (Text)

Description

This file includes copies of tests, course schedules and assigned homework sets, referenced readings, and supplementary notes both typed and handwritten for the Physics 411-412 course between 1959 to 1988.

Folder title supplied by Archivist.

"Physics 421-422", Undated

Box 6; Folder 5 (Text)

Description

Includes a handwritten copy of the course syllabus.

"Physics 421-422: E & M", Undated

Box 6; Folder 6 (Text)

Description

This file includes copies of test questions, course schedules and assigned homework sets, referenced readings, grade scales, and supplementary handwritten notes for the Physics 421-422 course.

"Physics 500: Science and Society Seminar", 1973-1974

Box 6; Folder 7 (Text)

Description

This file contains documents related to the proposal of the Science and Society course, as well as Friedlander's collected documents from the course through out the 1973-1974 academic year. These documents consist of proposals, sign up sheets, correspondence, a course schedule and related readings list, and handwritten personal notes.

Physics 546, Folder 1 of 3, 1959-1996

Box 6; Folder 8 (Text)

Description

Consists of documents related to the Physics 546 class taught by Michael Friedlander from 1959 to 1996. Included are course descriptions and schedules, Friedlander's handwritten notes, homework and reading assignments, formula sheets and definitions, and selected readings.

Folder title supplied by Archivist.

Physics 546, Folder 2 of 3, 1959-1996

Box 6; Folder 9 (Text)

Description

Consists of documents related to the Physics 546 class taught by Michael Friedlander from 1959 to 1996. Included are course descriptions and schedules, Friedlander's handwritten notes, homework and reading assignments, formula sheets and definitions, and selected readings.

Folder title supplied by Archivist.

"Physics 546: High Energy Particles", 1959-1960

Box 6; Folder 10 (Text)

Description

Includes documents related to Friedlander's Physics 546 course such as his personal class and lecture notes, and a typed list of class discussion topics.

"Pure and App" Notes, 1948-1949

Box 6; Folder 11 (Text)

Description

Included are handwritten notes regarding course subjects such as probability, mathematical theory of errors, and practical applications.

"Science and Social Responsibility", 1973-1974

Box 6; Folder 12 (Text)

Description

Includes documents related to Friedlander's Science and Social Responsibility course taught in 1973-1974. These documents consist of a course selection guide, correspondence, the course syllabus, and Friedlander's handwritten lecture notes.

"Statistics MWF" Lecture Notes, 1958

Box 6; Folder 13 (Text)

Description

Consists of a copy of an article about statistical counting, and handwritten notes on lined paper titled "Lecture Notes."

"Summer School", 1976

Box 6; Folder 14 (Text)

Description

Includes a course syllabus.

"U. College Astronomy", 1976

Box 6; Folder 15 (Text)

Description

Includes Friedlander's handwritten notes, printed formulas and calculations, a course schedule, and class reading bibliography.

Series 1, Sub-Series 5: Committee for Nuclear Information (C.N.I.)

Box 6 (Text)

Box 7 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Amchitka, Alaska, 1965

Box 6; Folder 16 (Text)

Description

Includes the Committee for Nuclear Information (C.N.I.) correspondence from the National Parks Association, and the Alaskan Conservation Department in regards to the adverse effects of nuclear testing on the island of Amchitka.

Folder title supplied by Archivist.

C.E.I./A.E.C, 1968-1970

Box 6; Folder 17 (Text)

Description

Includes planning reports, correspondence, meeting minutes, proposal outlines and meeting summaries from the Committee for Environmental Information (C.E.I.) and the United States Atomic Energy Commission (A.E.C.).

Folder title supplied by Archivist.

C.N.I and A.E.C. on Nuclear Weapons, 1961

Box 6; Folder 18 (Text)

Descriptions

Included in this folder are documents pertaining to the Committee on Nuclear Information (C.N.I.) and nuclear weapons testing. Such documents include correspondences from the U.S. Senate and the Atomic Energy Commission (A.E.C.) reporting on Project Gnome and Project Chariot, newsletters and pamphlets informing the public about the effects of radioactive fall-out. Also included are bulletins, publications, and meeting minutes from the C.N.I. Technical Division, of members discussing the implications of Russian testing, nuclear warfare, and a call for a possible ban on above-ground nuclear testing.

Folder title supplied by Archivist.

Committee on Nuclear Information Publications, 1963

Box 6; Folder 19 (Text)

Descriptions

Included are three copies of "Nuclear Information" booklets published by the St. Louis Citizens' Committee for Nuclear Information (S.T.L.C.N.I.). Two of the booklets were published in February of 1963, and the second is the March-April 1963 edition. These booklets consist of a collection of essays written about nuclear weaponry, biological warfare, nuclear testing and radiation, and the economic and political aspects of nuclear power. Michael Friedlander served as a member of the "Scientific Advisory Board" for these publications.

Folder title supplied by Archivist.

Nuclear Impacts on Environment, 1960-1966

Box 6; Folder 24 (Text)

Description

This folder consists of documentation from a variety of committees such as the Committee for Nuclear Information (C.N.I.), Commission for Environmental Information (C.E.I.), the Atomic Energy Commission (A.E.C.), and the Scientists' Committee for Radiation Information, discussing the impact that nuclear science has had on the environment and on human bodies. Includes correspondence, informative articles, newspaper clippings, newsletters, and published papers.

"Rio Blanco Gas Stimulation Project", April 1972

Box 7; Folder 1 (Text)

Description

A bound environmental statement from the United States Atomic Energy Commission (A.E.C.). Its contents includes project summaries, data, statements and comments, etc. related to Project Rio Blanco.

St. Louis C.N.I., Folder 1 of 2, 1957-1966

Box 7; Folder 2 (Text)

Description

Includes materials from the St. Louis chapter of the Committee of Nuclear Information (C.N.I.), consisting of correspondence, reports and published articles, newsletters and newspaper clippings, meeting minutes, and other related materials.

Folder title supplied by Archivist.

St. Louis C.N.I., Folder 2 of 2, 1957-1966

Box 7; Folder 3 (Text)

Description

Includes materials from the St. Louis chapter of the Committee of Nuclear Information (C.N.I.), consisting of correspondence, reports and published articles, newsletters and newspaper clippings, meeting minutes, and other related materials.

Folder title supplied by Archivist.

Series 2: Research Materials

Box 12 (Text)

Box 13 (Text)

Box 14 (Text)

Box 15 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Akron, 1925-1933

Box 12; Folder 1 (Text)

Description

Newspaper clippings regarding the U.S.S. Akron, a helium-filled airship owned by the United States Navy-the first ever to be built to carry fighter planes. These clippings consist of articles about its flights, and its destruction during a thunderstorm on April 4, 1933.

Folder title supplied by Archivist.

"Autoradiography" Notebook, June 1974

Box 12; Folder 2 (Text)

Description

Michael Friedlander's lab notebook titled "Autoradiography." Included are his handwritten notes, drawings, calculations, and lab findings.

Balloon Flights, Folder 1 of 8, 1958-1973

Box 12; Folder 3 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 2 of 8, 1958-1973

Box 12; Folder 4 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 3 of 8, 1958-1973

Box 12; Folder 5 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 4 of 8, 1958-1973

Box 12; Folder 6 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 5 of 8, 1958-1973

Box 12; Folder 7 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 6 of 8, 1958-1973

Box 12; Folder 8 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 7 of 8, 1958-1973

Box 12; Folder 9 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

Balloon Flights, Folder 8 of 8, 1958-1973

Box 12; Folder 10 (Text)

Description

Includes bound Balloon Flight summaries collected from the National Scientific Balloon Facility, photograph collections, graphs, illustrations, newspaper clippings, questionnaires, newsletters from balloon companies, and flight procedures. Also included are materials related to the Barndoor, Neepawa, Moberley, Texas, and the Sioux Falls balloon flights.

Folder title supplied by Archivist.

"Carina" Notebook, July 2, 2003

Box 12; Folder 11 (Text)

Description

Michael Friedlander's lab notebook related to his research into the "Carina" star. Included are his handwritten notes, drawings, calculations, and lab findings.

"Carinae", 1991-1992

Box 12; Folder 12 (Text)

Description

Consists of publications related to the Hubble telescope, and the mapping of the Carinae star.

Compton, Folder 1 of 3, 1923-2005

Box 12; Folder 13 (Text)

Description

Includes material regarding the life and career of American physicist and Washington University physics professor and Chancellor Arthur Holly Compton, who discovered the Compton Effect which explored electromagnetic radiation in 1923. Also included are materials relating to NASA's Compton Gamma Ray program. These materials include research notes, biographies, email correspondence, photographs, a program poster, selected publications, and an oral history transcript from Dr. Carl Eckart, colleague of Arthur Compton.

Folder title supplied by Archivist.

Compton, Folder 2 of 3, 1923-2005

Box 12; Folder 14 (Text)

Description

Includes material regarding the life and career of American physicist and Washington University physics professor and Chancellor Arthur Holly Compton, who discovered the Compton Effect which explored electromagnetic radiation in 1923. Also included are materials relating to NASA's Compton Gamma Ray program. These materials include research notes, biographies, email correspondence, photographs, a program poster, selected publications, and an oral history transcript from Dr. Carl Eckart, colleague of Arthur Compton.

Folder title supplied by Archivist.

Compton, Folder 3 of 3, 1923-2005

Box 12; Folder 15 (Text)

Description

Includes material regarding the life and career of American physicist and Washington University physics professor and Chancellor Arthur Holly Compton, who discovered the Compton Effect which explored electromagnetic radiation in 1923. Also included are materials relating to NASA's Compton Gamma Ray program. These materials include research notes, biographies, email correspondence, photographs, a program poster, selected publications, and an oral history transcript from Dr. Carl Eckart, colleague of Arthur Compton.

Folder title supplied by Archivist.

"Conferences: Royal Society Bagneres Padova", 1953-1954

Box 12; Folder 16 (Text)

Description

Includes materials related to the Charged Hyperon conference held by the Royal Society. These materials include handwritten notes, typed discussion notes, reference sheets, correspondence, agendas, and a final conference report.

Cosmic Ray Project, Folder 1 of 16, 1951-1996

Box 13; Folder 1 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 2 of 16, 1951-1996

Box 13; Folder 2 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 3 of 16, 1951-1996

Box 13; Folder 3 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 4 of 16, 1951-1996

Box 13; Folder 4 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 4 of 16, 1951-1996

Box 13; Folder 5 (Text)

Descriptions

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 5 of 16, 1951-1996

Box 13; Folder 6 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 6 of 16, 1951-1996

Box 13; Folder 7 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 7 of 16, 1951-1996

Box 13; Folder 8 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 8 of 16, 1951-1996

Box 13; Folder 9 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 9 of 16, 1951-1996

Box 13; Folder 10 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 10 of 16, 1951-1996

Box 13; Folder 11 (Text)

Descriptions

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 11 of 16, 1951-1996

Box 13; Folder 12 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 12 of 16, 1951-1996

Box 13; Folder 13 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 13 of 16, 1951-1996

Box 13; Folder 14 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 14 of 16, 1951-1996

Box 13; Folder 15 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 15 of 16, 1951-1996

Box 14; Folder 1 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

Cosmic Ray Project, Folder 16 of 16, 1951-1996

Box 14; Folder 2 (Text)

Description

Pertains to Michael Friedlander's research in cosmic ray science at Washington University. Included are a wide variety of documents including correspondences, permits, nuclear material information and invoices, data, newspapers, and publications.

Folder title supplied by Archivist.

"Cosmic Ray Research, University of Bristol", 1954-1955

Box 14; Folder 3 (Text)

Description

Contains handwritten packets titled "Plate HA S4-40A Scans." These packets include graphs, calculations, and data towards Friedlander's research in cosmic ray science.

"Car. II" Notebook, August 25, 1977

Box 14; Folder 4 (Text)

Description

Michael Friedlander's second lab notebook related to his research into "Carina." Included are his handwritten notes, drawings, calculations, and lab findings.

"Car. III" Notebook, September 2, 1980-August 2, 1985

Box 14; Folder 5 (Text)

Description

Michael Friedlander's third lab notebook related to his research into the "Carina" star. Included are his handwritten notes, drawings, calculations, and lab findings.

"Car. IV" Notebook, May 29, 1985-October 10, 1986

Box 14; Folder 6 (Text)

Description

Michael Friedlander's fourth lab notebook related to his research into the "Carina" star. Included are his handwritten notes, drawings, calculations, and lab findings.

"Car. V: Computing C1" Notebook, December 26, 1986-October 13, 1989

Box 14; Folder 7 (Text)

Description

Michael Friedlander's fifth lab notebook related to his research into the "Carina" star. Included are his handwritten notes, drawings, calculations, and lab findings.

"Car. VI" Notebook, April 30, 1991

Box 14; Folder 8 (Text)

Description

Michael Friedlander's sixth lab notebook regarding his research into the "Carina" star. Included are his handwritten notes, drawings, calculations, and lab findings.

"CR-39", 1981-1982

Box 14; Folder 9 (Text)

Description

Consists of publications related to the CR-39 nuclear track detector from various authors and publishers.

"Crab Nebula/Gamma (Low/High E)" Notebook, November 13, 1992

Box 14; Folder 10 (Text)

Description

Michael Friedlander's lab notebook related to his research into the Crab Nebula and Gamma rays. Included are his handwritten notes, drawings, calculations, and lab findings.

"The Council of Representatives of European States...Nuclear Research", 1948-1953

Box 14; Folder 11 (Text)

Description

Materials related to the International Physics Conference, hosted at the Institute for Theoretical Physics, in Copenhagen. Included are two books, and the publication "Le Journal de Physique et Le Radium," from the University of Bristol.

Cyclotron, 1959

Box 14; Folder 12 (Text)

Description

Includes the "Comments on low energy Nuclear Physics Research..." typed summary, as well as a series of black and white photographs related to the Cyclotron research project conducted at Washington University in 1959.

Folder title supplied by Archivist.

"Dust Grains/Lab Studies" Notebook, July 7, 1978

Box 14; Folder 13 (Text)

Description

Michael Friedlander's lab notebook related to his research into Dust Grains. Included are his handwritten notes, drawings, calculations, and lab findings.

Faribault-Calvinia Flights, Folder 1 of 3, 1959-1965

Box 14; Folder 14 (Text)

Description

Includes materials regarding Washington University supported balloon flights conducted by Michael Friedlander in South Africa in 1962. These materials largely include correspondence, notes on expenses, receipts and invoices, published articles, requests for equipment and materials, data and final report. Also included are documents pertaining to the litigation case regarding the crash of the aircraft rented by Washington University to track the path of the balloons during this experiment.

Folder title supplied by Archivist.

Faribault-Calvinia Flights, Folder 2 of 3, 1959-1965

Box 14; Folder 15 (Text)

Description

Includes materials regarding Washington University supported balloon flights conducted by Michael Friedlander in South Africa in 1962. These materials largely include correspondence, notes on expenses, receipts and invoices, published articles, requests for equipment and materials, data and final report. Also included are documents pertaining to the litigation case regarding the crash of the aircraft rented by Washington University to track the path of the balloons during this experiment.

Folder title supplied by Archivist.

Faribault-Calvinia Flights, Folder 3 of 3, 1959-1965

Box 14; Folder 16 (Text)

Description

Includes materials regarding Washington University supported balloon flights conducted by Michael Friedlander in South Africa in 1962. These materials largely include correspondence, notes on expenses, receipts and invoices, published articles, requests for equipment and materials, data and final report. Also included are documents pertaining to the litigation case regarding the crash of the aircraft rented by Washington University to track the path of the balloons during this experiment.

Folder title supplied by Archivist.

"Grains: Nucleation and Growth/Optical Fibers" Notebook, May 14, 1986

Box 14; Folder 17 (Text)

Description

Michael Friedlander's personal lab notebook related to his research into photon absorption. Included are his handwritten notes, drawings, calculations, and lab findings.

"Heavy Mesons", 1954

Box 14; Folder 18 (Text)

Description

Includes materials from the Rochester Conference on Heavy Mesons in 1954. These materials include Michael Friedlander's notes, publications and drafts, data, and final reports.

"High Altitude Shots & Radiation", 1962

Box 14; Folder 19 (Text)

Description

Includes published articles, newspaper clippings, data reports, and A.E.C. correspondence to the Department of Defense regarding high altitude nuclear testing and radiation belts.

"Information Procedures in Environmental Contamination" Research Project, 1966-1971

Box 14; Folder 20 (Text)

Description

Includes an application for a research grant from the U.S. Department of Health, Education, and Welfare by the Greater St. Louis Citizen's Committee for Nuclear Information and a Notice of Research Project document outlining the approved "Information Procedures in Environmental Contamination" research project.

"I.R." Notebook, August 13, 1973

Box 14; Folder 21 (Text)

Description

Michael Friedlander's lab notebook titled "I.R." (infrared radiation) included are his handwritten notes, drawings, calculations, and lab findings.

"IR/Meeting/Notes/Car. I" Notebook, undated

Box 14; Folder 22 (Text)

Description

Michael Friedlander's lab notebook related to a variety of topics such as: Infrared radiation ("I.R.") science and the "Carina" constellation. Included are his handwritten notes, drawings, calculations, and lab findings.

Koristka and Microscopes, Folder 1 of 4, 1955-2004

Box 14; Folder 23 (Text)

Description

Includes materials related to the Koristka Nuclear Track Scattering microscope series. These materials largely consist of various correspondence, but also contains biographical notes, handwritten notes, invoices, and handling instructions.

Folder title supplied by Archivist.

Koristka and Microscopes, Folder 2 of 4, 1955-2004

Box 14; Folder 24 (Text)

Description

Includes materials related to the Koristka Nuclear Track Scattering microscope series. These materials largely consist of various correspondence, but also contains biographical notes, handwritten notes, invoices, and handling instructions.

Folder title supplied by Archivist.

Koristka and Microscopes, Folder 3 of 4, 1955-2004

Box 15; Folder 1 (Text)

Description

Includes materials related to the Koristka Nuclear Track Scattering microscope series. These materials largely consist of various correspondence, but also contains biographical notes, handwritten notes, invoices, and handling instructions.

Folder title supplied by Archivist.

Koristka and Microscopes, Folder 4 of 4, 1955-2004

Box 15; Folder 2 (Text)

Description

Includes materials related to the Koristka Nuclear Track Scattering microscope series. These materials largely consist of various correspondence, but also contains biographical notes, handwritten notes, invoices, and handling instructions.

Folder title supplied by Archivist.

"Lantern Slides", undated

Box 15; Folder 3 (Text)

Description

Pertains to "Lantern Slides," belonging to the Department of Astronomy at Washington University. The material includes undated indexes and lists of "cabinet slides." Removed from original binders for conservation purposes.

"Light Elements/Orion" Notebook, June 25, 1993

Box 15; Folder 4 (Text)

Description

Michael Friedlander's lab notebook related to his research into Light Elements and the Orion constellation. Included are his handwritten notes, drawings, calculations, and lab findings.

"Midwest Cosmic Ray Seminar", 1959-1960

Box 15; Folder 5 (Text)

Description

Includes documents related to the Midwest Cosmic Ray Seminars that occurred between 1959 and 1960. These materials are comprised of guest lists, seminar schedules, and biographical notes.

"Monopole," Folder 1 of 2, 1975-2011

Box 15; Folder 6 (Text)

Description

Consists of materials related to the Dirac Theory and magnetic "Monopole" research. These materials include various publications, correspondence, reports and summaries, explanatory notes, manuscript referrals, data, graphs, handwritten notes, and project and funding proposals.

"Monopole," Folder 2 of 2, 1975-2011

Box 15; Folder 7 (Text)

Description

Consists of materials related to the Dirac Theory and magnetic "Monopole" research. These materials include various publications, correspondence, reports and summaries, explanatory notes, manuscript referrals, data, graphs, handwritten notes, and project and funding proposals.

Particle Photo Collection, undated

Box 15; Folder 8 (Text)

Description

Includes black and white photographs of microscopic particles, also included are graphs and data sheets.

Folder title supplied by Archivist.

"Photographs From P.H. Fowler", Undated

Box 15; Folder 9 (Text)

Description

Includes several graphs titled "Ottawa Neutrons" and "Lateral Optical Density v. Range."

"Plowshare Program", 1967-1971

Box 15; Folder 10 (Text)

Description

Includes materials related to the non-violent nuclear testing Plowshare Program, the Atomic Energy Commission (A.E.C.) trenches, and project Gasbuggy. These materials include various newspaper clippings, reports and project summaries, handwritten notes, and a published article from the New York Times Magazine. Oversized magazine removed and boxed separately.

"Science, Creation Science, and Pseudo-Science Selected Documents" , 1981-1982

Box 15; Folder 11 (Text)

Description

Two spiral bound collections of copied articles, journals, and editorials related to the topics of Creation Science and Psuedo-Science.

"Sky Mirror", 1967

Box 15; Folder 12 (Text)

Description

Includes research materials related to the adverse effects of the "Sky Mirror," reflecting satellite. These materials include published articles, newspaper clippings, and a summary of NASA's take on "orbiting mirrors" program.

"Special Notes", 1950

Box 15; Folder 13 (Text)

Description

Handwritten notes regarding x-ray diffraction, advanced wave mechanics, relative quantum mechanics, and collision problems.

"Starfish", 1962-1963

Box 15; Folder 14 (Text)

Description

Includes materials about the Starfish Nuclear Explosion experiment, which studied the effects of high altitude nuclear testing in the early 1960s. These materials consist of published research pamphlets, papers, and articles related to the subject matter.

"Sterling Newberry", 1988-2010

Box 15; Folder 15 (Text)

Description

Includes collected materials related to Sterling Newberry, American inventor of the shadow x-ray microscope. These materials include printed biographies, correspondence, business cards, photographs, published articles and op-eds, and Newberry's own written publications.

Velikovsky, 1976

Box 15; Folder 16 (Text)

Description

Includes Friedlander's published notes on Immanuel Velikovsky's scientific theories, copies of Velikovsky's written works transferred to projector slides and annotated by Friedlander, copies of email correspondence regarding Velikovsky from Leroy Ellenberger to Mark Pilkington.

Folder title supplied by Archivist.

Series 3: Education

Box 16 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Undergraduate Notes, Folder 1 of 2, 1947-1948

Box 16; Folder 1 (Text)

Description

Contains Michael Friedlander's handwritten notes taken during his undergraduate studies at University of Capetown. Also included are Friedlander's exams and course papers.

Folder title supplied by Archivist.

Undergraduate Notes, Folder 2 of 2, 1947-1948

Box 16; Folder 2 (Text)

Description

Contains Michael Friedlander's handwritten notes taken during his undergraduate studies at University of Capetown. Also included are Friedlander's exams and course papers.

Folder title supplied by Archivist.

University of Cape Town, Folder 1 of 2, 1947-1951

Box 16; Folder 3 (Text)

Description

Includes Friedlander's course materials from University of Cape Town, South Africa, between 1947 to 1951. Largely consisting of documents from the University's Physics courses, such as exam questions, course schedules, test booklets, and handwritten notes.

Folder title supplied by Archivist.

University of Cape Town, Folder 2 of 2, 1947-1951

Box 16; Folder 4 (Text)

Description

Includes Friedlander's course materials from University of Cape Town, South Africa, between 1947 to 1951. Largely consisting of documents from the University's Physics courses, such as exam questions, course schedules, test booklets, and handwritten notes.

Folder title supplied by Archivist.

Series 5: Publications by Others

Box 16 (Text)

Box 17 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

"Astronomy at Washington University Through the Years, 1857-1954" By Eugene Stephens, undated

Box 16; Folder 5 (Text)

Description

A detailed summary of the study of Astronomy at Washington University. Removed from original binder for preservation.

"Book Reviews", 1962-1963

Box 16; Folder 6 (Text)

Description

Published book reviews from Physics Today magazine.

"Demonstrations and Experiments for Physics", 1960-1964

Box 16; Folder 7 (Text)

Description

Bound report written by John M. Fowler, reviewing the lecture demonstrations and laboratory experiments developed at Washington University while under the National Science Foundation (N.S.F) grant. Found within the introduction section of the book were typed course notes from Friedlander's Physics 117-118 class, an unlabeled and undated black and white photograph, and a copy of the book's coverpage.

"EMSA and Its People: The First Fifty Years", 1992

Box 16; Folder 8 (Text)

Description

Book published in 1992 by the Electron Microscopy Society of America. The book provides history of EMSA and of microscopy.

"Expt. Items in Library", 1924-2009

Box 16; Folder 9 (Text)

Descriptions

Includes printed copies of published readings from various authors and related correspondence.

"Federal Funding to Washington University 1945-1970", July 14, 1992

Box 16; Folder 10 (Text)

Description

Spiral bound report that "traces the developement of the relationship between Washington University and research agencies of the Federal Government between 1945 to 1970." This report was published by the University and written by Thomas C. Lassman.

"General Electric Research Laboratory", 1964-1972

Box 16; Folder 11 (Text)

Description

Series of publications from the General Electric Corporate Research and Development department from Schenectady, New York. This "technical information series" highlights topics of particle track etching, fission tracks, and cosmic ray exposure.

"Lecture Notes in Engineering Physics", 1954

Box 16; Folder 12 (Text)

Description

Bound lecture book, produced and self-published by Robert N. Varney, Professor of Phycsis at Washington University in 1954.

"MIT Physics: Quantum Mechanics" , 1965

Box 16; Folder 13 (Text)

Description

Preliminary notes on quantum mechanics, developed and published at the Science and Teaching Center at MIT, in 1965, written by A. Kerman, P. Morrison, L. Sartori, and E. Taylor. Notes removed from original binder.

Nuclear Science Publications, 1959-1961

Box 16; Folder 14 (Text)

Description

This folder includes published magazines, booklets, and papers, that cover nuclear science, the effects of fallout and radiation, and "what to know and do about nuclear attack." Some of the published works are from the U.S. Department of Defense, U.S. News and World Report, and Ernest Lawerence from University of California.

Folder title supplied by Archivist.

"Physical Review Letters", December 15, 1963

Box 17; Folder 1 (Text)

Description

A volume 11, number 12 copy of "Physical Review Letters," a publication from the American Physical Society. Consists of a collection of publications covering a variety of topics from various authors.

"Reviews of Modern Physics", 1936 and 1939

Box 17; Folder 2 (Text)

Description

Two bound volumes (8 and 9) from the Reviews of Modern Physics published for the American Physical Society by the American Institute of Physics.

"Salon de Resserre", February 1-March 6, 1970

Box 17; Folder 3 (Text)

Description

Bound selections of "European and American Art of the Nineteenth Century," collected and published from the Washington University Gallery of Art.

"Selected Documents: Science, Creation Science and Pseudo-Science", 1981-1983

Box 17; Folder 4 (Text)

Description

A bound collection of printed essays and journal articles published by a variety of authors. The works are related to subjects within general sciences, creation science, and pseudo-science.

"The Jewish National and University Library", 1990

Box 17; Folder 5 (Text)

Description

Book written and published by The Hebrew University of Jerusalem in 1990. The book outlines the history of the University and its various departments, and its special Hebrew historical collections (including images).

"The Particle Universe", 1960

Box 17; Folder 6 (Text)

Description

Part one of the spiral bound publication, written by Washington University's Physics professors Edward D. Lambe and John M. Fowler, and published by the university in 1960.

Washington University Magazine, 1961-1985

Box 17; Folder 7 (Text)

Description

Issues of Washington University's published alumni magazine.

Folder title supplied by Archivist.

"Washington University Studies: Scientific Series Vol. XI", January, 1924

Box 17; Folder 8 (Text)

Description

Bound essay from Washington University Physics professor Arthur L. Hughes, and published in the "Washington University Studies: Scientific Series." Its contents include information about the effects of collisions between electrons and molecules.

Series 6: Personal Papers of Others

Box 17 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

Alexander Chandra, 1964-2009

Box 17; Folder 9 (Text)

Description

Includes published articles, leaflets, correspondence, handwritten notes, a newspaper obituary, and biographical note for Dr. Alexander Chandra.

Folder title supplied by Archivist.

Edwin Thompson Jaynes Papers, 2000-2004

Box 17; Folder 10 (Text)

Description

This folder pertains to the death of Washington University Physics professor Edwin Thompson Jaynes. Included are copies of his will and death certificate, which appointed Washington University as his sole beneficiary, establishing the Edwin T. Jaynes fund for the university, as well as correspondence from Cambridge regarding the royalties of his unpublished manuscript, printed emails, and letters from his estate.

Folder title supplied by Archivist.

The Silvers, Folder 1 of 4 , 1900-2002

Box 17; Folder 11 (Text)

Description

Contains documentation pertaining to Isidore and Edith Silver. Includes a letter to Michael and Jessica Freidlander written by the Silvers, requesting them to donate their bodies to Washington University upon death. Also included are drafts for a "Revocable Trust Agreement" for the Silvers. Present are news clippings of Isidore Silver's death, and the Colloquium Lecture program held at Washington University in his honor, as well as multiple correspondence from the Silvers to the Friedlanders. These letters include instructions upon their deaths, both the "Living Will" and Durable Power of Attorney of Isidore and Edith, their marriage certificate, photographs, report cards of Edith's, choir and recital pamphlets, Isidore's Army paper work, his parents' immigration papers and marriage certificate, and a vaccination certificate booklet.

Marriage certificate removed and boxed separately for spatial and preservation purposes.

Folder title supplied by Archivist.

The Silvers, Folder 2 of 4, 1900-2002

Box 17; Folder 12 (Text)

Description

Contains documentation pertaining to Isidore and Edith Silver. Includes a letter to Michael and Jessica Freidlander written by the Silvers, requesting them to donate their bodies to Washington University upon death. Also included are drafts for a "Revocable Trust Agreement" for the Silvers. Present are news clippings of Isidore Silver's death, and the Colloquium Lecture program held at Washington University in his honor, as well as multiple correspondence from the Silvers to the Friedlanders. These letters include instructions upon their deaths, both the "Living Will" and Durable Power of Attorney of Isidore and Edith, their marriage certificate, photographs, report cards of Edith's, choir and recital pamphlets, Isidore's Army paper work, his parents' immigration papers and marriage certificate, and a vaccination certificate booklet.

Folder title supplied by Archivist.

The Silvers, Folder 3 of 4, 1900-2002

Box 17; Folder 13 (Text)

Description

Contains documentation pertaining to Isidore and Edith Silver. Includes a letter to Michael and Jessica Freidlander written by the Silvers, requesting them to donate their bodies to Washington University upon death. Also included are drafts for a "Revocable Trust Agreement" for the Silvers. Present are news clippings of Isidore Silver's death, and the Colloquium Lecture program held at Washington University in his honor, as well as multiple correspondence from the Silvers to the Friedlanders. These letters include instructions upon their deaths, both the "Living Will" and Durable Power of Attorney of Isidore and Edith, their marriage certificate, photographs, report cards of Edith's, choir and recital pamphlets, Isidore's Army paper work, his parents' immigration papers and marriage certificate, and a vaccination certificate booklet.

Folder title supplied by Archivist.

The Silvers, Folder 4 of 4, 1900-2002

Box 17; Folder 14 (Text)

Description

Contains documentation pertaining to Isidore and Edith Silver. Includes a letter to Michael and Jessica Freidlander written by the Silvers, requesting them to donate their bodies to Washington University upon death. Also included are drafts for a "Revocable Trust Agreement" for the Silvers. Present are news clippings of Isidore Silver's death, and the Colloquium Lecture program held at Washington University in his honor, as well as multiple correspondence from the Silvers to the Friedlanders. These letters include instructions upon their deaths, both the "Living Will" and Durable Power of Attorney of Isidore and Edith, their marriage certificate, photographs, report cards of Edith's, choir and recital pamphlets, Isidore's Army paper work, his parents' immigration papers and marriage certificate, and a vaccination certificate booklet.

Folder title supplied by Archivist.

Series 7: Audiovisual Materials

Box 17 (Text)

Description

Use of quotation marks indicative of original wording provided by Michael Friedlander. Folder titles supplied by Archivist as noted.

Arrangement

Arranged alphabetically by folder title.

"Films on Astronomy", 1981

Box 17; Folder 15 (Text)

Description

Includes a letter and film list from the Indiana University Audio-Visual Center.

16mm Film Reel, undated

Description

Untitled, undated 16mm film reel.

Folder title supplied by Archivist.

16mm Film Reel, undated

Description

Untitled, undated 16mm film reel.

Folder title supplied by Archivist.

"Movie", undated

Description

Untitled, and undated film reel.

"S.A. Air Strips, Data", 1962

Description

Microfilm of data from the South African Airstrips.

"Wash U. Balloon", April 30, 1965

Description

Film reel of the Texas balloon flights from 1965.