Title: Sheldon K. Friedlander papers
Identifier/Call Number: LSC.1787
Contributing Institution: UCLA Library Special Collections
Language of Material: English
Physical Description: 14.0 linear feet(34 boxes, 1 half box, 1 shoe box)
Date (inclusive): 1950-2006
Abstract: Professional and research papers of Sheldon K. Friedlander, UCLA Department of Chemical and Biomolecular Engineering, 1978-2007. Friedlander conducted research in the areas of: aerosol science and technology, particulate systems, diffusion and interfacial transfer, air pollution control, air quality engineering, nanoparticle science and technology. Most of the collection dates from Friedlander’s appointments at the California Institute of Technology (1964-1978) and at UCLA (1978-2007). Papers include: correspondence; course files; contracts and grants including grants from the Environmental Protection Agency (EPA), the National Science Foundation (NSF), and the Northrop Corporation; speeches and presentations; and documents relating to workshops and conferences.
Language of Materials: Materials are in English.
Physical Location: Stored off-site at SRLF. All requests to access special collections material must be made in advance using the request button located on this page.
Creator: Friedlander, Sheldon K. (Sheldon Kay), 1927-2007

Conditions Governing Access
COLLECTION STORED OFF-SITE AT SRLF: Open for research. All requests to access special collections materials must be made in advance through our electronic paging system using the "Request Items" button.

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Physical Characteristics and Technical Requirements
COLLECTION CONTAINS AUDIOVISUAL MATERIALS: Audiovisual materials in this collection will require assessment and possible digitization for safe access. All requests to access special collections material must be made in advance using the request button located on this page.
COLLECTION CONTAINS DIGITAL MATERIALS: Special equipment or further processing may be required for viewing. All requests to access special collections material must be made in advance using the request button located on this page.

Preferred Citation
[Identification of item], Sheldon K. Friedlander Papers (Collection 1787). UCLA Library Special Collections, Charles E. Young Research Library, University of California, Los Angeles.

UCLA Catalog Record ID
UCLA Catalog Record ID: 8168242

Provenance/Source of Acquisition

Processing History
Initial processing of the Friedlander papers was carried out by Mariana Cochran, Katie Richardson, and Lauren Sin (2008); additional processing by Jeff Kozak (2008-2009); additional processing and revisions by Angel Diaz and Krystell Jimenez (2017).

Biographical/Historical Note
Sheldon (“Shel”) Kay Friedlander was born on November 17, 1927 in New York City, New York. Friedlander attended Columbia University briefly before leaving his studies to serve in the Army during World War II. After the war, Friedlander returned to Columbia and received a BS in Chemical Engineering (1949), an M.S. in Chemical Engineering from the Massachusetts Institute of Technology (1951), and a PhD in Chemical Engineering from the University of Illinois (1954). After completing his doctorate, Friedlander was appointed to the faculties at: Columbia University (1945-1957), Johns Hopkins University (1957-1964), and the California Institute of Technology (1964-1978). In 1978, joined UCLA and was a founding member of the Department of Chemical Engineering, where he taught for nearly three decades. He was Chair from 1984-1988. [Note: the Department of Chemical Engineering was renamed the Department of Chemical and Biomolecular Engineering in 2005.]
Friedlander was known as one of the fathers of aerosol science, a field that studies the properties of airborne particles. While at the California Institute of Technology he devised a way to analyze existing data that measured the chemical makeup of smog particles. This discovery lead to an understanding of who and what were contributing to air pollution at any given time. Friedlander's research linked smog particles to gasoline usage and linked zinc traces to the rubber in tires. His research was incorporated into the first systems developed for the regulation of air quality. In 1982 he helped found the American Association for Aerosol Research (AAAR). Fifteen years later the AAAR established the Friedlander Award (1997) which recognizes an outstanding dissertation by a doctoral student in the field of aerosol studies.

During Friedlander's tenure at UCLA he founded the university's Air Quality and Aerosol Technology Laboratory and became its director. In 1983 Friedlander was named first incumbent of the Ralph M. Parsons Chair in Chemical Engineering at UCLA. In 1987 he established at UCLA the nation's first engineering research center devoted to solving the problem of hazardous waste management.

Friedlander served on a number of advisory boards and committees including: Chairman of the National Academy of Science/National Research Council Sub-Committee on Photochemical Oxidants and Ozone (1973-1976); Chairman and member of the Environmental Protection Agency's Science Advisory Board (1976-1986); and the California Air Resources Board (2002).

Some of Friedlander's awards and honors include: the Colburn Award, American Institute of Chemical Engineers (1959); Fulbright Scholar (1960-1970); Guggenheim Fellowship (1969-1970); the Alpha Chi Sigma Award, American Institute of Chemical Engineers (1974); U.S. Senior Scientist Humboldt Award (1984, West Germany); and the Fuchs Memorial Award, American Association for Aerosol Research (1990).

Friedlander remained active in the field until his death on February 9, 2007 in Pacific Palisades, Los Angeles. He was 79.

Scope and Content

The Sheldon K. Friedlander papers range from 1950-2006, and include materials related to his own studies and professional work as Professor of Chemical Engineering at UCLA. The materials include correspondence, notes, meeting agendas, reports, published materials, manuscripts, course materials, and five 3.5 inch floppy disks. The collection relates to Friedlander's research on various pollutants in smog and their quantification by source, advising, teaching, writing, research, and conference and workshop presentations.

Abbreviations found throughout papers include:

AAAR-American Association of Aerosol Research
AFOSR-Air Force Office of Scientific Research
ACS-PRF-American Chemical Society-Petroleum Research Fund
CCT-Center for Computation and Technology
CESR-Center for Earth Systems Research
CETP-California Environmental Technology Partnership
CRC- Coordinating Research Council
CRDF-Civilian Research and Development Foundation
DISC- Diesel Impacts Study Committee (National Research Council)
DOE-Department of Energy
DOEd-Department of Education
EMITS-Environmental Monitors for Industrial Toxics
EPA-Environmental Protection Agency
EPRI-Electric Power Research Institute
ERC-Engineering Research Center for Hazardous Substances Control (UCLA)
ESACT-Engineering and Systems Analysis for the Control of Toxics
GDSM-General Drop Scavenging Module
IOE-Institute of the Environment
LACOR-Los Alamos-Campus Collaborative Research
NASA-National Aeronautic Space Administration
NCERQA-National Center for Environmental Research and Quality Assurance
NCITR-National Center for Intermedia Transport Research
NIEHS-National Institute of Environmental Health Sciences
NIGEC-National Institute for Global Environmental Change
NSF-National Science Foundation
OID-Office of Instructional Development
Organization and Arrangement
This collection has been arranged in the following series:

Series 1: Correspondence, 1950-2005
Series 2: Grants and contracts, 1976-2005
Series 3: Committees and consulting, 1980-1996
Series 4: Administrative and subject files, 1950-2006
Series 5: Published Works, 1992-2004

Friedlander organized many of his files in reverse chronological order. In most cases, Friedlander's reverse chronological order has been maintained.

Subjects and Indexing Terms
Friedlander, Sheldon K. (Sheldon Kay), 1927-2007--Archives.
University of California, Los Angeles. Department of Chemical Engineering--Faculty--Archives.
Aerosols--Research.
Chemical engineers--United States--Archives.

Series 1: Correspondence. 1950-2005

Scope and Contents note
General correspondence including: professional associations, departmental (relating to UCLA Dept. of Chemical Engineering, later renamed the UCLA Dept. of Biomolecular and Chemical Engineering), research, and referee reports. Correspondence often includes attached publications.

Correspondence. 1950-1958
Correspondence. 1960-1969
Correspondence. 1970-1973
Correspondence. 1974-1978
Correspondence. 1979
Correspondence. 1980
Correspondence. 1981
Correspondence. 1982
Correspondence. 1983
Correspondence. 1984
Correspondence. 1985
Correspondence. 1986
Correspondence. 1987
Correspondence. 1988
Correspondence. 1989
Correspondence. 1990
Series 1: Correspondence. 1950-2005

Box 4, Folders 9-10
Box 31, Folder 11, Box 5, Folders 1-3
Box 5, Folders 4-5
Box 5, Folder 6
Box 5, Folder 7
Box 5, Folders 8-9
Box 31, Folder 12-13,
Box 6, Folders 1-2
Box 6, Folder 3,
Box 31, Folder 14
Box 6, Folder 4
Box 6, Folder 5
Box 6, Folder 6
Box 6, Folder 7
Box 6, Folder 8
Box 6, Folder 9

Correspondence. 1991
Correspondence. 1992
Correspondence. 1993
Correspondence. 1994
Correspondence. 1995
Correspondence. 1996
Correspondence. 1997
Correspondence. 1998
Correspondence. 1999
Correspondence. 2000
Correspondence. 2001
Correspondence. 2002
Correspondence. 2003
Correspondence. undated


Scope and Contents note
Correspondence, notes, reports, research materials, organization information, and proposal submission guidelines relating to research contracts, grants and proposals. Includes information on funded and unfunded contracts, grants, and projects involving Friedlander, the UCLA Chemical and Engineering Department and/or the Engineering Research Center. The bulk of the series contains grant and proposal information sponsored by the National Science Foundation (NSF), the Environmental Protection Agency (EPA), and the Northrop Corporation.

The series is arranged alphabetically by organization name.

Box 7, Folders 1-2
Scope and Content
Includes correspondence, pamphlets regarding proposal submission to the AFOSR, a preliminary proposal, and the final proposal for "Formation and Size Distribution of Submicron Aerosol Agglomerates."

Box 7, Folder 3-4
Scope and Content
Includes correspondence, information and application materials for grants, as well as two proposals; one for "Effects of Chemical and Physiochemical Factors on Submicron Aerosol Agglomerates" and the other for "Nanoparticle Chain Aggregates: Semiluation Studies and Chemical Reactivity."

Box 7, Folder 5
American Institute for Pollution Prevention. 1989-1990
Scope and Content
Includes correspondence, handwritten notes, an annual report, research, drafts, and a proposal for "Establishing a Laboratory for Pollution Prevention at UCLA."

Box 7, Folder 6
Cabot Corporation. 2002 April 10
Scope and Content
Includes papers and a proposal for the "Cooperative Program with Cabot Corporation."
Box 7, Folder 7
California Air Resources Board. 1992 April 7
Scope and Content
Includes a proposal for the "Development of an Acid Deposition Model for the South Coast Air Basin in California."

Box 7, Folder 8
California Institute of Technology. 1978-1979
Scope and Content
Includes correspondence, invoices, and award synopses on the project, "Particle Analysis by Mass Spectrometry."

Box 7, Folder 9
California Nanosystems Institute. 2000
Scope and Content
SMART project, "Nanoparticles: Synthesis, Structures and Scale-Up."

Box 7, Folder 10
California Systemwide Toxic Substances Program. 1990 March 27
Scope and Content
Draft proposal for "Determination of the Importance of Vehicular Emissions to Ambient Levels of Toxic Air Pollutants."

Box 7, Folder 11
Center for Computation and Technology (CCT). 1992
Scope and Content
Includes a progress report on the project, "Collaborative Studies of the Size Distribution of Chemical Species in Los Angeles."

Box 7, Folders 12-13
Centers for Water and Wildland Resources. 1996-1998
Scope and Content
Includes correspondence, research, and a proposal for "Ambient Aerosol Inputs of Pollutants to Santa Monica Bay."

Box 7, Folder 14
Civilian Research and Development Foundation (CRDF). 1996
Scope and Content
Includes correspondence, grant information on CRDF, and a proposal for "Theoretical and Experimental Study of Laser-Induced Fractal Aggregates Including the Dynamics of Aerosol-Aerogel Transition."

Box 7, Folder 15
Coordinating Research Council (CRC). 1980 March-June
Scope and Content
Includes correspondence and a preliminary proposal for "Studies of Secondary Organic Aerosol Formation."

Box 7, Folder 16
Department of Education (DOEd). 1991 October
Scope and Content
Includes correspondence and a proposal "To Establish Ph.D. Fellowships in Pollution Prevention at the UCLA Department of Chemical Engineering."

Box 7, Folder 17
Department of Energy (DOE). 2004
Scope and Content
Includes research and a project for "Black Carbon and Organic Carbon Aerosol Mass and Optical Properties: Comparability and Causes of Uncertainties."

Box 7, Folder 18
Energy and Environmental Research Corporation (EER). 1993 October 1
Scope and Content
Includes correspondence on EPA RFP No. D300220M1.
<table>
<thead>
<tr>
<th>Box/Folder</th>
<th>Organization</th>
<th>Start Date</th>
<th>End Date</th>
<th>Scope and Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 32, Folders 7-9, Box 17, Folders 3-4</td>
<td>Engineering Research Center (ERC). 1985-1992</td>
<td>1985-1992</td>
<td>Includes correspondence regarding a UCLA joint project with the ERC, an annual report titled &quot;Catalytic Afterburner Project: Immobilized Free Molecule Aerosol Reactor for the Control of Toxic Substances,&quot; an executive summary, and a budget report. These folders also include correspondence and clippings regarding the establishment of the ERC, applications, forms, a questionnaire, an assembly bill, and an EPA report. Additional materials are correspondence, reports, and notes related to a report on waste stream flows contracted to the Research Triangle Institute.</td>
<td></td>
</tr>
<tr>
<td>Box 9, Folder 7</td>
<td>Institute of the Environment (IOE) (Coordinating Council of Environmental Studies). 1996 October</td>
<td>1996</td>
<td>Proposal to establish the UCLA IOE, a campus-wide center for interdisciplinary instruction and research.</td>
<td></td>
</tr>
<tr>
<td>Box 9, Folders 11-12, Box 10, Folders 1-2</td>
<td>Los Alamos - UC Campus Collaborative Research (LACOR). 1993-1995</td>
<td>1993-1995</td>
<td>A joint project with Laboratory Directed Research and Development (LDRD)/Los Alamos National Laboratory, and UCLA. Includes correspondence, progress reports, research, budgets, drafts, a Los Alamos street map and area information, and proposals for the project &quot;Chemical and Physicochemical Properties of Submicron Aerosol Agglomerates.&quot;</td>
<td></td>
</tr>
</tbody>
</table>

National Aeronautics and Space Administration (NASA) Langley Research Center. 1982, 1995
Scope and Content
Includes correspondence and a proposal for "GDSM: General Drop Scavenging Module to Predict Scavenging of Particulate Matter and Trace Gases by Large and Small Raindrops" and a proposal for "Stratospheric Calibration of the QCM Impactor."

National Institute of Environmental Health Sciences (NIEHS). 1976, 1980
Scope and Content
Includes correspondence and a proposal for "Biomedical Effects of Secondary Air Pollutants."

National Science Foundation (NSF). 1979-2005
Scope and Content

Northrop Corporation. 1990-1995
Scope and Content
<table>
<thead>
<tr>
<th>Box 15, Folder 1</th>
<th>Pacific Environment and Atmospheric Research Laboratory (PEARL). 1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence, research articles, and presentation, and proposal draft for a National Facility for Marine and Atmospheric Research.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folder 2</th>
<th>Pacific Rim Research Program (PRRP). 2004 December 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes PRRP application, proposal, and guidelines for project titled &quot;A Comparative Study of Ultrafine Aggregates in Los Angeles and Taipei Aerosols.&quot;</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folder 3</th>
<th>Physical Optics Corporation. 1997</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes proposal titled &quot;Measurement of Oxidant in Submicron Aerosols&quot; and publications about the Physical Optics Corporation.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folder 4</th>
<th>Procter and Gamble. 1999-2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folders 5-6</th>
<th>Ralph M. Parsons Foundation. 1990-1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence, handwritten notes, budget outlines, and a proposal to establish the Ralph M. Parsons Graduate Fellowships in Pollution Prevention at UCLA School of Engineering and Applied Science.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folder 7</th>
<th>RAND Corporation. 1992</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence, Friedlander's resume ca. 1991, and a proposal for a Federally Funded Research and Development Center for the Critical Technologies Institute.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folder 8</th>
<th>Shell Oil Company Foundation. 1992 February-June</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence and proposals regarding the upgrading of UCLA's Chemical Engineering Teaching Laboratories.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folders 9-12</th>
<th>Southern California Edison Company. 1990-1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence, bibliography, research, award synopsis, and proposals for &quot;Aerosol Research Studies&quot; and &quot;Relationship of Fine Particle Atmospheric Aerosol to Reactive Intermediates.&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 15, Folders 13-14, Box 16, Folder 1</th>
<th>Southern California Particle Center and Supersite (SCPCS). 2001-2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Content</td>
<td></td>
</tr>
<tr>
<td>Includes correspondence, a progress report on the &quot;Effects of Condensation and Evaporation in the VACES on Agglomerate Structures,&quot; comments on progress, a progress report on &quot;The Nature of the Ultrafine Atmospheric Aerosol: The Surface Area of Fractal-like Aggregate and the Comparison of Aerodynamic and Electrical Mobility Diameters,&quot; quality management project plan, SCPCS center account status including budget information related to the project, and a newsletter complied by the Southern California Occupational &amp; Environmental Health Centers.</td>
<td></td>
</tr>
</tbody>
</table>
Box 16, Folder 2  **Thermo-Systems Inc. (TSI). 2005 October-November**
Scope and Content
Includes correspondence regarding the collaboration and loaning of instruments to Friedlander for his use during his research in aerosol science and technology.

Box 16, Folder 3  **UCLA Center for Clean Technology. 1990-1991**
Scope and Content
Includes the Air Toxics Workshop steering committee meeting report, correspondence, solicitation for proposal to establish a waste reduction institute by the American Institute of Chemical Engineers, a list of sponsors for the industrial affiliates programs status, a research program of the University of Texas at Austin, and handwritten notes.

Box 16, Folders 4-7  **UCLA Engineering and Systems Analysis for the Control of Toxic Substances (ESACT). 1985-1989**
Scope and Content
Includes correspondence, site evaluations, a newspaper clipping, a budget report, meeting minutes, proposals and an annual report for the establishment of the ESACT program at UCLA.

Box 16, Folder 8  **UCLA Global Change Consortium. 1993-1994**
Scope and Content
A proposal for "Regional Integrated Modeling: Analysis for Regional Environmental Assessment," meeting minutes, correspondence, and UCLA's Environmental/Global Change Researchers Directory.

Box 17, Folders 1-2, Box 16, Folders 9-10  **UCLA Hazardous Waste Control Laboratory (HWCL). 1983-1986**
Scope and Content
Includes handwritten notes, correspondence, outlines, a proposal for Centers on Toxic Materials in the Environment, a proposal for the establishment of Hazardous Waste Control Laboratory at UCLA, research, and a planning meeting for the NSF Engineering Research Center on Hazardous Waste Control.

Box 17, Folder 5  **UCLA Office of Instructional Development (OID). 2005**

Box 17, Folder 6  **Western Regional Center for Global Environmental Change/WestGEC. 1993**
Scope and Content
Part of the National Institute for Global Environmental Change/NIGEC. Includes proposal submission guidelines, an outline of projects funded by WESTGEC, correspondence, and a proposal titled "Effects of Turbulence on Aerosol Formation by Homogeneous Nucleation Atmospheric Application."

Box 17, Folder 7  **Proposal statements. 1980-1987**

Series 3: Committees and consulting. 1980-1996
Scope and Content
Includes pamphlets, rosters, correspondence, bibliographies, meeting agendas, notes, report drafts, and other materials related to Friedlander's work on the National Research Council's Diesel Impacts Study Committee, the American Association for Aerosol Research, and the California Environmental Technology Partnership, as well as from consulting work with private companies.

Box 17, Folders 8-9, Boxes 18-19, Box 20, Folders 1-5  **National Research Council- Diesel Impacts Study Committee (DISC). 1980-1982**
Scope and Contents note
Includes bibliographies, correspondence, report drafts, meeting agendas, rosters, and reviewer comments generated by the Diesel Impacts Study Committee (DISC).
Friedlander was member of committee; committee chaired by Henry S. Rowen (Stanford University).
American Association for Aerosol Research (AAAR). 1981-1987

Scope and Content
Includes pamphlets, membership rosters, budgets, correspondence, research proposals, communications regarding collaboration with the Research Triangle Institute, articles published by the AAAR, and letters regarding the association's journal *Aerosol Science and Technology*.


Scope and Contents note
Includes general correspondence, the 1994 information package, call lists, information on the MICRO project, report drafts, committee meeting agendas, the 1994 strategic plan and drafts, member lists, meeting minutes, the organization's fact sheet, the 1991/92 Annual Environmental Report of the Governor, and an invitational letter to Friedlander to join the CETP.

Consulting files. 1980-1989

Scope and Contents note
Files relating to Friedlander's work as a consultant to commercial enterprises; also regarding grant funds. Includes: ALCOA, E.I. du Pont de Nemours, Exxon, Finnigan Corporation, Air Products and Chemicals Inc., Southern California Edison Company, Southern California Air Quality Study.

Conferences and workshops. 1959, 1986-2006

Scope and Contents note
Includes selected files on policy meetings, workshop and seminar presentations. Includes: International Aerosol Conference (IAC); lecture at the University of Texas, Austin; Asian Aerosol Conference; Nanotechnology-Biology Interface; SRI International, Stetter (DARPA); EPA/NSF/NSET Subcommittee Grant Challenge Workshop; 2nd Annual Mechanical Engineering Seminar; Nanoaerosol Science and Technology Initiative Conference; Bioterrorism and Biotechnology Conference; American Institute of Chemical Engineers (AIChE); 6th International Aerosol Conference; EPA Science Forum; UC Riverside Campus Seminar; American Association for Aerosol Research (AAAR); University of Florida Particle Science Summer School in Winter; Air Resources Board (ARB) Air Quality Advisory Committee (AQAC) Workshop; Challenges for the Chemical Sciences in the 21st Century Workshop; American Institute of Chemical Engineers (AIChE) Meeting; USC Seminar; AAAR Conference; University of Illinois, Urbana Seminar; ACS Rubber Division Meeting; Aerosol Reaction Engineering meeting; Representation of Multicomponent Aerosols; Chinese Academy of Sciences presentation; Symposium on Particle-Fluid Interactions, Environmental Consequences of Aerosols.
Box 22, Folders 27-28

**Advising. 1991-1994**

Scope and Contents note

Box 24, Folders 1-3, Box 23, Folders 1-11

**Class notes (University of Illinois). 1950-1953**

Scope and Contents note
Selected course files and class notes when Friedlander was a graduate student and serving as teaching assistant at the University of Illinois. Includes: Industrial Chemistry, Colloid Chemistry, Advanced Inorganic Chemistry, Heat Transfer, Atomic Physics, Radiochemistry, Nuclear Physics, Chemical Engineering 387, Distillation, Absorption and Extraction, Thermodynamics, Small Particles, Reaction Kinetics, and Kinetic Theory of Gases.

Box 24, Folder 4

**Dissertation. Sheldon K. Friedlander, University of Illinois. 1954**

Scope and Contents note
Title: Deposition of Aerosol Particles From Turbulent Gases.

Box 24, Folder 5

**Distribution Lists. undated**

Scope and Contents note
Includes: Aerosol Filtration by Fibrous Filters, Self-Preservation Theory, Hydrodynamic Solution Chemistry. Produced by John Hopkins University(?).

Box 24, Folders 6-9, Box 33, Folders 3-6, Box 34, Folders 1-2, Box 24, Folders 6-8

**Friedlander notes. 1951-2000**

Scope and Contents note
Includes handwritten notes from conferences, workshops, and presentations Friedlander attended, as well as publications with annotations by Friedlander, reports he used as reference, and notes he used for lectures or talks.

Box 25, Folders 1-6, Box 24, Folders 10-15, Box 24, Folders 10-14, Box 31, Folder 10

**UCLA related materials. 1962-2007**

Scope and Contents note

Box 25, Folders 7-20

**Patent files. 1980-1996**

Scope and Contents note

Box 26, Folders 1-2

**Photographic slides. undated**

Box 27  
**Super 8 mm film, untiitled. undated**  
Physical Characteristics and Technical Requirements  
FILE CONTAINS AUDIOVISUAL MATERIALS: Audiovisual materials in this collection will require assessment and possible digitization for safe access.

Series 5: Published works. 1992-2004

Scope and Content  
The series includes manuscripts, correspondence, contracts, and copies of articles and studies published by Friedlander, both alone and with colleagues. Additional materials include photographs of results, five 3.5 inch floppy disks, containing copies and information on the manuscripts on chemical signatures, comparative studies on aerosols, polymers, nanoparticles, elastic behaviour, particle nucleation, submicron atmosphere aerosol, fabrication of aerogel-like structures, and aerosol dynamics, among other topics.  
Original order has been maintained, and the folder titles are taken from the original labels.

**Physical Characteristics and Technical Requirements**  
COLLECTION CONTAINS DIGITAL MATERIALS: Special equipment or further processing may be required for viewing. All requests to access special collections material must be made in advance using the request button located on this page.

Box 28, Folder 1  
**Chemical signatures. 1992-1994**

Box 28, Folder 2  
**Two Faces of Technology. 1992-1993**

Box 28, Folder 3  
**Lesniewski/Friedlander article. 1993-1994**

Box 28, Folder 4  
**Lesniewski/Friedlander screening. 1995**

Box 28, Folder 5  
**Lehtinen A Note Journal of Colloid and Interface Science. 1995-1996**

Box 28, Folder 6-7  
**Schleicher/Friedlander II. 1994-1996**

Scope and Content  
Includes two 3.5 inch floppy disks.

**Physical Characteristics and Technical Requirements**  
COLLECTION CONTAINS DIGITAL MATERIALS: Special equipment or further processing may be required for viewing. All requests to access special collections material must be made in advance using the request button located on this page.

Box 28, Folder 8  
**Rajdip last paper. 2004**

Box 28, Folder 9  
**TEM/AFM with Gimzewski. 2004**

Box 28, Folder 10  
**Reiss festschrift. 2001**

Box 28, Folder 11  

Box 29, Folder 1  
**Iinoya. 1999-2001**

Box 29, Folder 2  
**Journal of Applied Physics, nanoparticles. 1997**

Box 29, Folder 3  
**Microscopy and Microanalysis, Suh/Prikhodko/Friedlander. 2001**

Box 29, Folder 4  
**Cheng, Proceedings of the National Academy of Sciences. 2001**

Box 29, Folder 5  
**Suh and Friedlander, Journal of Applied Physics. 2002**

Box 29, Folder 6  
**Park and Friedlander, Journal of Nanoparticle Research. 2001**

Box 29, Folder 7  
**Zhang, comparative study, Chinese aerosols. 2000**

Box 29, Folder 8  
**A Brief History of Aerosol Dynamics. 1999-2004**

Box 29, Folder 9  
**Aerosols, McGraw-Hill. 1993-1999**

Box 29, Folder 10  
**McGraw-Hill. 1998-1999**

Box 29, Folder 11  
**Encyclopedia: Hubbard. 1999-2000**

Box 30, Folder 1  
**Elastic behavior, Journal of Applied Physics, Ogawa. 1999**

Box 30, Folder 2  
**Polymer like behaviour: Submitted to Journal of Nanoparticle Research. 1998-1999**

Box 30, Folder 3  
**Stowers and Friedlander and Raman. 1999-2001**

Box 30, Folder 4-5  
**Dekkers. 1997-1999**
Box 30, Folder 6  
**Wongphatarakul: Aerosol chemical databases. 1998**

Scope and Content
Includes one 3.5 inch floppy disk.

Physical Characteristics and Technical Requirements
COLLECTION CONTAINS DIGITAL MATERIALS: Special equipment or further processing may be required for viewing. All requests to access special collections material must be made in advance using the request button located on this page.

Box 30, Folder 7  
Box 30, Folder 8  
Box 30, Folder 9  
Box 30, Folder 10  
**Wongphatarakul: a comparative study. 1998**

**Chapman and Hall. 1996-1998**

**Rejection letters. 1997**

**Lesniewski: proceeding Royal Society. 1997**

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Box 31, Folder 1  
**Sheryl papers. 1997-1998**

**Windeler. 1996-1998**


**Weber/Friedlander restructuring pathways. 1995-1996**

**Yeh and Friedlander: submicron atmospheric aerosols. 1996-1998**

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Box 31, Folder 7  
**Schleicher/Sheldon K. Friedlander applied physics. 1995**

**Lehtinen, Windeler, and Friedlander, "Prediction." 1996**

**Guest editorial. 1998**