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Prepared by Manuscript Division staff

Finding aid encoded by Manuscript Division staff, 2021 Revised 2023 April

Collection Summary

Title: Herbert J. Hall Papers Inclusive Dates: 1910-2003 Bulk Dates: 1972-2001 ID no.: MSS85745

Creator: Hall, Herbert J., 1916-2004.

Extent: 106,000 items

Extent: 302 containers plus 1 oversize

Extent: 121.2 linear feet

Language: Collection material in English

Location: Manuscript Division, Library of Congress, Washington, D.C.

LC Catalog record: https://lccn.loc.gov/mm2012085745

Summary: Physicist. Correspondence, technical reports and papers, speeches, memoranda, drawings, patents, graphs, blueprints, calculations, notes, newspaper clippings, photographs, printed matter, and other research and supporting material relating to Hall's career as a physicist and his work in air pollution control and electrostatic precipitation.

Selected Search Terms

The following terms have been used to index the description of this collection in the LC Catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically.

People

Armiger, William J., Jr., 1931-2007.

Crommelin, Philip B. (Philip Benedict), Jr., 1930-2002.

Hall, Herbert J., 1916-2004.

Hudson, J. Albert (James Albert), 1919-2021.

Katz, Jacob, 1928-2018.

Keeler, Thomas R.

McDonald, J. R. (Jack Raymond), 1944-

Pfoutz, Bill D. (Bill Dean), 1932-2014.

Robinson, Myron, 1928-

Weinstein, Norman J.

White, Harry J. (Harry James), 1905-1988.

Organizations

American Electric Power Company.

Environmental Products and Services Company.

H.J. Hall Associates.

Metropolitan Edison Company.

Nothelfer Winding Laboratories.

Pennsylvania Electric Company.

Precipitator Technology, Inc.

Recon Systems, Inc.

Research Corporation.

Research-Cottrell, Inc.

Tennessee Valley Authority.

Subjects

Air pollution control industry.

Air--Pollution.

Consulting firms--United States.

Desulfurization.

Electric discharges.

Electromagnetic devices.

Electromagnetism.

Electrostatic apparatus and appliances.

Electrostatic precipitation--Design and construction.

Electrostatic precipitation--Equipment and supplies.

Electrostatic precipitation--Patents.

Electrostatic precipitation--Research.

Electrostatic precipitation.

Electrostatics.

Fly ash.

Gas dynamics.

Gas flow.

High voltages.

Nitrogen oxides.

Particulate matter.

Physics.

Power resources.

Power-plants.

Pulse circuits.

Pulse transformers.

Sulfur dioxide mitigation.

Sulfur oxides.

Occupations

Physicists.

Acquisition Information

The papers of Herbert J. Hall were given to the Library of Congress in 2012 by his three children, John L. Hall, Molly J. Hall, and Stephen W. Hall.

Processing History

The papers of Herbert J. Hall were arranged and described by Pang Xiong with the assistance of Jake Bozza, Tracey Barton, Rosa Hernandez, and Rachel Telford in 2021. Mold was discovered throughout the collection during the initial processing survey. Items with mold were removed and isolated from the rest of the collection. Material not affected by mold was arranged and described in 2021. From 2021 to 2022, Tracey Barton, Jake Bozza, Rosa Hernandez, and Pang Xiong remediated mold, and this material was processed as the 2023 Addition by Pang Xiong with the assistance of Rosa Hernandez. All papers in the addition have undergone mold remediation. A few artifacts containing samples of ash, flue dust, and glacier silt have been properly housed.

Transfers

Items have been transferred from the Manuscript Division to other custodial divisions of the Library. An audiotape and two video recordings have been transferred to the Motion Picture, Broadcasting, and Recorded Sound Division. Proceedings and a book have been transferred to the Science, Technology, and Business Division. All transfers are identified in these divisions as part of the Herbert J. Hall Papers. Patrons are encouraged to contact these divisions in advance of a research visit.

Copyright Status

Copyright in the unpublished writings of Herbert J. Hall in these papers and in other collections in the custody of the Library of Congress is reserved. Consult reference staff in the Manuscript Division for futher information.

Access and Restrictions

The papers of Herbert J. Hall are open to research. Many collections are stored off-site and advance notice is needed to retrieve these items for research use. Researchers are advised to contact the Manuscript Reading Room prior to visiting.

Preferred Citation

Researchers wishing to cite this collection should include the following information: Container number, Herbert J. Hall Papers, Manuscript Division, Library of Congress, Washington, D.C.

Biographical Note

Date	Event		
1916, Sept. 30	Born, Springfield, Mass.		
1939	B.S., physics, Trinity College, Hartford, Conn.		
1940	M.A., physics, University of Michigan, Ann Arbor, Mich.		
1941	Graduate work for Ph.D. in physics at University of Michigan interrupted by World War II		
1941-1945	Staff, Radiation Laboratory, Massachusetts Institute of Technology, Cambridge, Mass.		
1943-1945	Worked in Office of Scientific Research and Development serving as United States representative for radar modulators in the United Kingdom and scientific and tactical military liaison for the British Royal Air Force		
1945-1958	Physicist, senior physicist, and assistant director of research of the Electrical Precipitation Section, Research Corp. and Research-Cottrell, Bound Brook, N.J.		
1946	Participated in atomic bomb testing at Bikini Atoll		
1949	Married Georgine Fleming (divorced 1958)		
1959-1961	Independent scientific consultant, Magnetic Specialties, Trenton, N.J.		
1962-1968	Director of research and development, Research-Cottrell		
1969-1972	Scientific consultant and vice president, Recon Systems, Princeton, N.J.		
circa 1971-1973	Consultant, Precipitator Technology, Munhall, Penn.		
1973-2001	President, H. J. Hall Associates, Princeton, N.J.		
circa 1984-1996	Consultant, vice president, and technical director, Environmental Products and Services Co., South Plainfield, N.J.		
2004	Died		

Scope and Content Note

The papers of Herbert J. Hall (1916-2004) span the years 1910-2003, with the bulk of the material dating from 1972 to 2001. The collection pertains to Hall's career in the field of air pollution control and showcases his broad and in-depth experience with electrostatic precipitation. The papers are in English and are organized into ten series: Research-Cottrell and Research Corporation, Recon Systems and Precipitator Technology, H. J. Hall Associates, Environmental Products and Services Company, Writing and Lecture File, Projects, Subject File, Miscellany, 2023 Addition, and Oversize.

The collection highlights Hall's efforts to improve air pollution control processes and systems by consulting on the design, engineering application, operation, and technical management of electrostatic precipitators at power plants and industrial facilities throughout the United States and internationally. This work was performed in his various positions, especially as president of H. J. Hall Associates (1972-2001). Very little material is included about his time with the Radiation Laboratory at the Massachusetts Institute of Technology and his activities during World War II. The Projects and Subject File series supplement and act as reference to Hall's work at Research Corporation, Research-Cottrell, Recon Systems, and H. J. Hall Associates. The collection also provides insight into his working relationships with William J. Armiger Jr., Philip B. Crommelin Jr., J. Albert Hudson, Jacob Katz, Thomas R. Keeler, Jack R. McDonald, Bill D. Pfoutz, Myron Robinson, Norman J. Weinstein, and Harry J. White.

The collection's series are listed and briefly described below. A fuller description of each series and a list of its contents can be accessed in the series descriptions with the container list.

The <u>Research-Cottrell and Research Corporation</u> series chronicles Hall's career from 1945 to 1968 and documents his activities relating to the application, development, fundamentals, and research of electrostatic precipitation and industrial gas cleaning.

The <u>Recon Systems and Precipitator Technology</u> series highlights Hall's career from 1969 to 1972 when he addressed air pollution control at both companies.

The <u>H. J. Hall Associates</u> series chronicles Hall's activities as president of his own science consulting firm from 1972 until 2001 where he consulted on all phases and facets of electrostatic precipitation and air pollution control systems.

The Environmental Products and Services Company series documents Hall's involvement with this company in the 1980s and 1990s.

The <u>Writing and Lecture File</u> contains lectures, speeches, and writings reflecting the breadth of Hall's contributions to the areas of air pollution control and electrostatic precipitation.

The <u>Projects</u> series contains background and research material for Hall's contracts and consultations with various private companies and public utilities.

The <u>Subject File</u> series contains topical files relating to Hall's activities and research interests in the fields of electrostatic precipitation and air pollution control technology.

The <u>Miscellany</u> series provides insight into Hall's interests and personal life and includes some documentation of his academic years and World War II activities.

The <u>2023 Addition</u> contains material initially removed from the collection for conservation purposes and complements the rest of the collection.

The Oversize series contains a commemorative paper weight, glacier silt, and volcanic ash souvenirs.

Arrangement of the Collection

This collection is arranged in ten series:

- Research-Cottrell and Research Corporation, 1942-1970
- Recon Systems and Precipitator Technology, 1965-1973
- H. J. Hall Associates, 1972-2001
- Environmental Products and Services Company, 1952-2001
- Writing and Lecture File, 1947-2002
- Projects, 1967-1992
- Subject File, 1951-2002
- Miscellany, 1935-2003
- 2023 Addition, 1910-1999
- Oversize, 1910-1993

Description of Series

Container

Series

BOX 1-24

Research-Cottrell and Research Corporation, 1942-1970

The Research-Cottrell and Research Corporation series chronicles Hall's career from 1945 to 1968 and documents his activities relating to the application, development, fundamentals, and research of electrostatic precipitation and industrial gas cleaning. From 1945 to 1958, Hall worked in the laboratory at Research Corporation, a non-profit organization devoted to scientific advancement, education, and research through the distribution of grants. From 1959 to 1961, Hall was an independent scientific consultant with Magnetic Specialties and specialized in high-voltage and high-powered electromagnetic equipment. As a consultant, Hall worked closely with Research-Cottrell, the successor of Research Corporation's manufacturing division previously known as the Precipitator Division. From 1962 to 1968, Hall served as the director of research and development of Research-Cottrell. His areas of expertise included aerosol physics, corona discharges, electrical discharges in gases, electromagnetic systems and equipment, high-voltage power supplies, and sulfur dioxide (SO₂) removal. The series features some of Hall's patents such as the electrostatic agglomerator and particle collection system. There is also documentation of his efforts to create a new type of electrostatic liquid cleaner. Also reflected in the series is his work with Nothelfer Winding Laboratories on charging choke, high-leakage reactance, and pulse transformers. Furthermore, the series reveals the close working relationship between Hall and Harry J. White, Myron Robinson, and others. He maintained friendships with colleagues at Research Corporation and Research-Cottrell throughout his career, and these individuals are later reflected in other series.

Material types include articles, blueprints, calculations, charts, correspondence, data samples, drawings, graphs, memoranda, newspaper clippings, notes and jottings, patents, photographs, printed matter, progress and technical reports, sketches, slides, and other papers.

Arranged alphabetically by topic or type of material.

BOX 24-34

Recon Systems and Precipitator Technology, 1965-1973

The Recon Systems and Precipitator Technology series highlights Hall's career from 1969 to 1972 when he addressed air pollution control at both companies. Hall was vice president and a consultant at Recon Systems, a scientific and engineering consulting firm specializing in air, solid waste, and water pollution control problems and systems. He worked closely with Norman J. Weinstein, founder of the company, and this is reflected in the series. The bulk of the series comprises Hall's technical reports as a scientific consultant at Recon Systems on the topics of dust emission control, electrical discharges, electrostatic precipitators, fly ash precipitator designs, high-voltage power supplies, incinerator designs, pulser circuit, solid and liquid waste management, and sulfur dioxide (SO₂) and nitrogen oxide (NOD) removal. Hall notably prepared a comprehensive market investigation on desulfurizing plants in the United States for Steinkohlen-Elektrizität Aktiengesellschaft (STEAG) of Germany, and this work is included in the series. Hall's work for Precipitator Technology, an air pollution company run by Jacob Katz, is mainly reflected in the technical reports from 1972 to 1973. Later in their careers, Hall and Katz would collaborate and lecture throughout the United States on the engineering, maintenance, and operation of electrostatic precipitators, and related material can be found in the Writing and Lecture File series

Material types include background data and calculations, blueprints, consulting agreements, correspondence, drawings, graphs, handwritten and typed technical reports, memoranda, notes, research material, and other supporting papers.

Arranged alphabetically by topic or type of material.

BOX 34-162 H. J. Hall Associates, 1972-2001

The H. J. Hall Associates series chronicles Hall's activities as president of his own science consulting firm from 1972 until 2001 where he consulted on all phases and facets of electrostatic precipitation and air pollution control systems. With his broad and in-depth knowledge of electrostatic precipitators, Hall was able to work with clients in oil refineries, power generation, and cement, paper, and steel industries. This series comprises the bulk of the collection, and the technical reports make up the majority of the series. Hall's technical reports cover a range of topics including aerosol physics; ammonia (NH₃) conditioning; electrostatic precipitation application, design, maintenance, and operation; gas conditioning systems and gas flow dynamics; vendor bid analyses; high-voltage power supplies; mechanical collectors; rapping; scrubbers; stark opacity problems; and sulfur dioxide (SO₂) removal technology. The series includes final reports from 1983 to 2001 and working files containing background material and drafts of technical reports. Final reports from 1972 to 1982 are in the 2023 Addition.

Material types include administrative records, blueprints, brochures, calculations, charts, consulting agreements, correspondence, data, diagrams, drawings, handwritten and typed technical reports, lists, memoranda, newspaper clippings, notes, photographs, printed matter, research material, and other papers.

Arranged alphabetically by topic or type of material.

BOX 162-171 Environmental Products and Services Company, 1952-2001

The Environmental Products and Services Company (EPSCO) series documents Hall's involvement with this company in the 1980s and 1990s. The company was founded by William J. Armiger Jr. and consisted of a group of independent consultants who pooled their talents to treat large air pollution control and electrostatic precipitation problems. Hall led projects and studies and was referred to as the "dean of electrostatic precipitation" in final EPSCO reports. Technical reports from H. J. Hall Associates were usually incorporated into EPSCO reports for clients. Hall worked closely with Willliam J. Armiger Jr., Philip B. Crommelin Jr., J. Albert Hudson, Jack R. McDonald, and Bill D. Pfoutz on the application, design, and operation of electrostatic precipitators in the electric utility industry. The series showcases EPSCO and Hall's involvement with the hot side to cold side conversion of electrostatic precipitators. In the 1970s, the hot side precipitator concept was developed and thought to be the answer to high-resistivity coals. Eventually, many precipitators began to fail due to inadequate structural design fuel analysis or undersized equipment. Hall and other EPSCO consultants provided inspections, performance predictions and modifications, and recommendations for hot side to cold side conversion of electrostatic precipitators. This series also chronicles Armiger's founding of EPSCON, the engineering and installation company created to complement EPSCO, and further documents the merger of EPSCON with F.L. Smidth & Co. of Denmark into EPSCON-FLS.

Material types include blueprints, brochures, consultant agreements, correspondence, data, drawings, graphs, memoranda, newspaper clippings, notes, photographs, printed matter, proposals, research material, studies, technical reports, and other papers.

Arranged alphabetically by topic or type of material.

BOX 172-185 Writing and Lecture File, 1947-2002

The Writing and Lecture File contains lectures, speeches, and writings reflecting the breadth of Hall's contributions to the areas of air pollution control and electrostatic precipitation. The papers and publications file consists primarily of a chronological file with drafts, notes, and published editions of scientific papers and technical reports. The lectures and seminars file includes a chronological file with drafts, notes, research material, and papers presented at conferences. Also included are topical files containing background data, notes, and research material relating to lectures and seminars presented by Hall. Reflected in the series are

Hall and Jacob Katz's collaborations on electrostatic precipitation seminars, which they presented throughout the United States from 1981 to the late 1990s. Thomas R. Keeler later joined them and presented along with Katz on the operation and maintenance of electrostatic precipitators while Hall focused on the technical aspects.

Material types include bibliographies, blueprints, conference proceedings, consulting agreements, correspondence, charts, drawings, graphs, photographs, speeches, supporting material for lectures, reports, and other printed matter.

Arranged by format and thereunder alphabetically or chronologically.

BOX 185-225 Projects, 1967-1992

The Projects series contains background and research material for Hall's contracts and consultations with various private companies and public utilities. This series supplements Hall's technical reports in the Recon Systems and Precipitator Technology and H. J. Hall Associates series. Included are correspondence, project specifications for installation of electrostatic precipitators, test data, reports, and research material relating to various projects. The series highlights some of Hall's consulting work for the American Electric Power Company, Metropolitan Edison Company, Pennsylvania Electric Company, and Tennessee Valley Authority.

Material types include blueprints, charts, correspondence, diagrams and drawings, graphs, memoranda, photographs, printed matter, project proposals, reports, and other background and research material.

Arranged alphabetically by name of company, power plant, or topic.

BOX 226-262 **Subject File, 1951-2002**

The Subject File series contains topical files relating to Hall's activities and research interests in the fields of air pollution control technology and electrostatic precipitation. These files were accumulated throughout his career and perhaps served as reference material for his projects and work. Particularly notable are his notebooks on electrostatic precipitators; collected catalogs, publications, reports, and other printed matter from various air pollution control associations, companies, and governmental agencies from 1954 to 2002; folders on high-resistivity ash and conditioning, nitrogen oxides (NO□), and sulfur oxides (SO□); and files on the impact of air pollution.

Material types include abstracts, articles, bibliographies, blueprints, company brochures and catalogs, correspondence, court affidavits, drawings and diagrams, graphs, memoranda, newspaper clippings, notes, photographs, reports, and other printed matter.

Arranged alphabetically by topic or type of material.

BOX 262-268 <u>Miscellany, 1935-2003</u>

The Miscellany series provides insight into Hall's interests and personal life and includes some documentation of his academic years and World War II activities. Also included in the series are decisions about his estate and photographs and slides relating to electrostatic precipitation.

Material types include academic notebooks, correspondence, notes and jottings, notebooks, photographs, slides, and other papers.

Arranged alphabetically by topic or type of material.

BOX 269-302 **2023 Addition, 1910-1999**

The 2023 Addition contains material initially removed from the collection for conservation purposes and complements the rest of the collection. All papers have undergone mold remediation and artifacts have been properly housed. This series contains final reports from the H. J. Hall Associates consulting firm from 1972 to 1982 and cover the time span not reflected in the reports in the H. J. Hall Associates series. Reports generally pertain to Hall's analyses of the design and operation of electrostatic precipitators and

include recommendations for improving and upgrading performance at various industrial facilities and power plants. Material in the series highlights Hall and his Research-Cottrell colleagues' efforts to document research and development activities relating to the evolution of new technology and hardware at Research-Cottrell from 1947 to 1966. Also included are two reports by Harry J. White prepared while at the Radiation Laboratory; Hall's contribution appears in the report on condenser charging in line type modulators. Hall's accomplishments are further reflected in patents, résumés, and other printed matter mentioning his achievements from 1962 to 1993.

Material types include administrative records, articles, blueprints, calculations, charts, correspondence, drawings, notes and jottings, patents, photographs, printed matter, progress and technical reports, résumés, and other papers.

Arranged and described according to the series from which items were initially removed and therein alphabetically by topic or type of material.

BOX OV 1 Oversize, 1910-1993

The Oversize series contains a commemorative paper weight, glacier silt, and volcanic ash souvenirs. Volcanic ash samples are from the eruption of Mount Saint Helens, Washington, and a commemorative paperweight contains flue dust removed from the first electrostatic precipitator on a copper smelter in 1910.

Arranged and described according to the series, containers, and folders from which the items were separated.

Container List

Container Contents

BOX 1-24 Research-Cottrell and Research Corporation, 1942-1970

The Research-Cottrell and Research Corporation series chronicles Hall's career from 1945 to 1968 and documents his activities relating to the application, development, fundamentals, and research of electrostatic precipitation and industrial gas cleaning. From 1945 to 1958, Hall worked in the laboratory at Research Corporation, a non-profit organization devoted to scientific advancement, education, and research through the distribution of grants. From 1959 to 1961, Hall was an independent scientific consultant with Magnetic Specialties and specialized in high-voltage and high-powered electromagnetic equipment. As a consultant, Hall worked closely with Research-Cottrell, the successor of Research Corporation's manufacturing division previously known as the the Precipitator Division. From 1962 to 1968, Hall served as the director of research and development of Research-Cottrell. His areas of expertise included aerosol physics, corona discharges, electrical discharges in gases, electromagnetic systems and equipment, high-voltage power supplies, and sulfur dioxide (SO₂) removal. The series features some of Hall's patents such as the electrostatic agglomerator and particle collection system. There is also documentation of his efforts to create a new type of electrostatic liquid cleaner. Also reflected in the series is his work with Nothelfer Winding Laboratories on charging choke, high-leakage reactance, and pulse transformers. Furthermore, the series reveals the close working relationship between Hall and Harry J. White, Myron Robinson, and others. He maintained friendships with colleagues at Research Corporation and Research-Cottrell throughout his career, and these individuals are later reflected in other series.

Material types include articles, blueprints, calculations, charts, correspondence, data samples, drawings, graphs, memoranda, newspaper clippings, notes and jottings, patents, photographs, printed matter, progress and technical reports, sketches, slides, and other papers.

Arranged alphabetically by topic or type of material.

BOX 1	Alphabetical file			
BOX 1	Air Pollution Abatement Committee, Manufacturing Chemists Association, 1951-1952			
BOX 1	Air pollution control, 1966-1968, undated			
BOX 1	American Petroleum Institute, New York, N.Y., 1955-1961			
BOX 1	Amplifier circuits, 1947			
BOX 1	Annual meeting of shareholders, 1967-1968			
BOX 1	Arnold Engineering Co., test data, 1953, 1961			
BOX 1	Arthur D. Little, Inc., 1968			
BOX 1	Australia, electric power industry, 1966			
BOX 1	Automatic voltage control of electrostatic precipitators, 1965-1970			
	(2 folders)			
BOX 2	AVCO-Everett Research Laboratory, Everett, Mass., magnetohydrodynamic generators, 1963-1964			
BOX 2	Bahco particle size classifier, 1962-1963			
BOX 2	Bibliographies			
BOX 2	Electostatic precipitation, 1950-1951			
BOX 2	Smoke, dust, and aerosols, 1949			
BOX 2	Bulletins and sales literature, 1962			

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вох 2	Cancer cell removal and electrical fields, 1964		
BOX 2	Chemical and physical laboratory, research procedures and forms, 1959-1965		
вох 2	Chronology of electrostatic precipitation and industrial gas cleaning, 1948-1963		
BOX 2	Collected miscellaneous papers, 1961-1968 (3 folders)		
вох 2	Computer applications, 1961-1965		
BOX 2	Corona characteristics, 1955-1966		
BOX 3	Cyclone and mechanical dust collectors, 1965		
BOX 3	Director of research, publicity, 1962		
BOX 3	Discharge wires, 1963-1965		
BOX 3	Electric agglomerator and particle collection system, 1961-1963		
BOX 3	Electrical equipment and insulation, 1953-1962		
BOX 3	Electric and magnetic fields, 1963		
BOX 3	Electric circuits, undated		
BOX 3	Electric fields in liquids particle separation, 1951-1965		
вох 4	(3 folders) Electrohydrodynamics, 1962-1964		
BOX 4	Electronic control circuitry, 1942-1947		
	•		
BOX 4	Electronics division equipment and parts, 1964		
BOX 4	Electrostatic precipitators, design and data, 1956-1967		
BOX 4	Electrostatic precipitators, electrical equipment, 1960-1965		
вох 4	(2 folders) Esso Research and Engineering Co., sulfur dioxide (SO ₂) removal, 1963		
BOX 4 BOX 4	Fly ash precipitator data, 1960-1963 Forms, 1962-1963		
BOX 4	Fuel cells for electrical power, 1967		
BOX 4	Gas discharges and gas sampling precipitators, 1948-1949		
BOX 4	Gas flow, 1959-1967		
BOX 4	Gas velocity, 1954-1960		
BOX 4	"G.O.'s." 1953-1962		
BOX 4	Heat transfer, 1965-1968		
BOX 4	High-pressure natural gas precipitators, 1965-1968		
BOX 4	High-temperature and high-pressure precipitators, 1955		
BOX 4	High-tension cable and high-voltage bushings, 1946-1951		
BOX 5	High-voltage and silicon rectifiers, 1960		
BOX 5	High Voltage Engineering Corp., insulated core transformer, 1960-1961		
BOX 5	High-voltage power suppliers, 1961-1962 Index of Research Corp. filing cabinets, 1956		
BOX 5			
BOX 5	Industrial Research Institute, New York, N.Y., bylaws, 1968		
BOX 5	Instructions for Cottrell electrostatic precipitator, high-voltage rectifier and controls, 1961		
BOX 5	Iron core reactors, 1943-1953		
BOX 5	Landmarks in science, 1962-1965		
BOX 5	Lasers, 1961-1965		
BOX 5	Loomis Institute, Windsor, Conn., 1961-1964		
BOX 5	Magnetic amplifiers, 1948-1959		
вох 6	Magnetic amplifiers, 1948-1959		
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Container	Contents			
вох 6	Magnetic applications for electrostatic precipitators, 1949, 1961			
BOX 6	Marathon Oil Co., 1966			
BOX 6	Materials, 1961-1968			
BOX 6	Odor control, 1966-1968			
BOX 6	Ozone data and notes, 1953-1967			
BOX 6	Particle size and charge, 1946-1951			
BOX 6	Pioneers in engineering, science, and technology, 1954, undated			
BOX 6	Plasma technology and theory, 1961-1962			
	(2 folders)			
BOX 6	Precipitator efficiencies versus average corona power, 1951-1957			
BOX 6	Princeton, N.J., 1964			
BOX 6	Rapping, 1962			
BOX 7	Research and development			
BOX 7	Budgets, 1958-1965			
BOX 7	Management and planning, 1961-1968			
BOX 7	Research and Development Department			
BOX 7	Fiscal year 1967-1968			
BOX 7	Objectives and results in the market place, 1967-1968			
BOX 7	Personnel, 1967			
BOX 7	Products and projects, 1967-1968			
BOX 7	General, 1956-1966			
now 7	(2 folders)			
BOX 7	Philosophy and planning, 1961-1968			
BOX 7	Salaries, 1962-1967			
BOX 7	Resistivity, 1962-1966			
BOX 7	Robinson, Myron, 1960-1968 (3 folders)			
вох 8	Selenium rectifiers, 1948			
BOX 8	Silicon controlled rectifier, 1963-1965			
BOX 8	Sparks and corona, 1946-1951			
BOX 8	Static electric charge neutralization, 1964-1968			
BOX 8	"S'T'D Pwr Sup. ppt," 1943-1953			
20110	(2 folders)			
BOX 8	Sucrest Corp., particle charge measurements, 1968			
BOX 8	Survey-line type modulators, circa 1943			
BOX 8	Tall stacks, 1968			
BOX 8	"To Do Lists," 1964-1966			
BOX 8	Transformer heating and tank design, 1947			
BOX 8	Transistors, 1960			
вох 8	Ultrasonics, 1961-1965			
вох 8	U.S. Magnet and Alloy Corp., 1962			
BOX 8	Velocity tables, undated			
вох 8	Water pollution, 1967			
вох 8	Welsbach Corp., ozone oxidation of sulfur dioxide (SO ₂), 1965-1968			
BOX 9	Contract and consulting service, 1961			
	(4 folders)			
BOX 9	Correspondence, 1953, 1961-1968			

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BOX 9	Log notes, 1962			
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BOX 9	Amplifier circuits and designs, 1961			
BOX 9	Amplifier test circuits and data, 1960			
BOX 9	Charging reactor and pulse transformer designs, 1961			
BOX 9	Current transformer designs and summary sheets, 1961			
BOX 9	Design methods for surveying chokes, 1961			
BOX 9	General properties and core calculations, 1960			
BOX 9	Instrument transformers, 1954-1961			
BOX 10	Magnetic circuit design charts, data, and graphs, 1960-1961			
BOX 10	Reactor designs and data, 1960-1961			
BOX 10	Transformer and choke design and data, 1953-1961			
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BOX 10	Notebook of business and professional expenses, 1961-1968			
BOX 10	Patents			
BOX 10	General, 1951-1964			
BOX 10	Ideas and notes, 1961-1969			
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BOX 11	Photographs and slides, 1962-1968			
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BOX 11	Progress reports			
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BOX 13	Nos. 24-50, 1950-1953			
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BOX 14	163, high temperature and high pressure			
BOX 14	Frenchtown Porcelain Co., high-voltage bushing design and cable, 1962-1963			
BOX 14	High-temperature electrostatic precipitation, 1962-1968			
BOX 14	Hot precipitator fly ash basic design data, 1966			
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BOX 15	Thermal ionization, 1962-1968			
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BOX 15	310, gas flow, 1962-1964			
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BOX 15	800-96, electrified bag filter, 1952-1967			
	(4 folders)			
BOX 15	810-12-03, "1500 MA rectifier set," 1964-1965			
BOX 16	810-12-07, "TR Dev., 1000 MA Set, 460 V. Line," 1965-1966			
BOX 16	810-16, electric field adsorption, sulfur dioxide (SO ₂), and corona chemistry, 1964-1965			

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BOX 16	812-01, high-temperature fly ash precipitator, 1963-1966			
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BOX 16	AC field particle charging system and impulse corona, 1946-1947			
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BOX 16	Crystal accelerometer MKI-sensitivity, 1951-1953			
BOX 17	Current limiting reactor			
BOX 17	Application, data, and reports, 1963-1965			
	(3 folders)			
BOX 17	Designs, 1965-1966			
BOX 17	"G.O. 2773, Kansas City Power and Light Co., Ladue, Mo.," 1964-1968			
BOX 17	"G.O. 2793, Atlantic City, N.J.," 1965			
BOX 17	Electrostatic liquid cleaner			
BOX 17	"Electrostatic Filtration of Insulating Liquids," conference paper, Annual International Conference of Doble Clients, Boston, Mass., 1965-1966			
BOX 17	Hydraulic fluid cleaning, 1962			
BOX 17	Liquid-liquid and liquid-solid separations, 1962			
BOX 17	Memoranda and reports, 1962-1965			
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BOX 24-34 Recon Systems and Precipitator Technology, 1965-1973

The Recon Systems and Precipitator Technology series highlights Hall's career from 1969 to 1972 when he addressed air pollution control at both companies. Hall was vice president and a consultant at Recon Systems, a scientific and engineering consulting firm specializing in air, solid waste, and water pollution control problems and systems. He worked closely with Norman J. Weinstein, founder of the company, and this is reflected in the series. The bulk of the series comprises Hall's technical reports as a scientific consultant at Recon Systems on the topics of dust emission control, electrical discharges, electrostatic precipitators, fly ash precipitator designs, high-voltage power supplies, incinerator designs, pulser circuit, solid and liquid waste management, and sulfur dioxide (SO₂) and nitrogen oxide (NO□) removal. Hall notably prepared a comprehensive market investigation on desulfurizing plants in the United States for Steinkohlen-Elektrizität Aktiengesellschaft (STEAG) of Germany, and this work is included in the series. Hall's work for Precipitator Technology, an air pollution company run by Jacob Katz, is mainly reflected in the technical reports from 1972 to 1973. Later in their careers, Hall and Katz would collaborate and lecture throughout the United States on the engineering, maintenance, and operation of electrostatic precipitators, and related material can be found in the Writing and Lecture File

Material types include background data and calculations, blueprints, consulting agreements, correspondence, drawings, graphs, handwritten and typed technical reports, memoranda, notes, research material, and other supporting papers.

Arranged alphabetically by topic or type of material.

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BOX 24	Chemical and Engineering News, 1969
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Recon Systems and Precipitator Technology, 1965-1973

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вох 34-162	H. J. Hall Associates, 1972-2001			
	The H. J. Hall Associates series chronicles Hall's activities as president of his own science consulting firm from 1972 until 2001 where he consulted on all phases and facets of electrostatic precipitation and air pollution control systems. With his broad and in-depth knowledge of electrostatic precipitators. Hall was able to work with clients in oil refineries.			

Herbert J. Hall Papers

knowledge of electrostatic precipitators, Hall was able to work with clients in oil refineries,

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power generation, and cement, paper, and steel industries. This series comprises the bulk of the collection, and the technical reports make up the majority of the series. Hall's technical reports cover a range of topics including aerosol physics; ammonia (NH₃) conditioning; electrostatic precipitation application, design, maintenance, and operation; gas conditioning systems and gas flow dynamics; vendor bid analyses; high-voltage power supplies; mechanical collectors; rapping; scrubbers; stark opacity problems; and sulfur dioxide (SO₂) removal technology. The series includes final reports from 1983 to 2001 and working files containing background material and drafts of technical reports. Final reports from 1972 to 1982 are in the 2023 Addition.

Material types include administrative records, blueprints, brochures, calculations, charts, consulting agreements, correspondence, data, diagrams, drawings, handwritten and typed technical reports, lists, memoranda, newspaper clippings, notes, photographs, printed matter, research material, and other papers.

Arranged alphabetically by topic or type of material.

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The Environmental Products and Services Company (EPSCO) series documents Hall's involvement with this company in the 1980s and 1990s. The company was founded by William J. Armiger Jr. and consisted of a group of independent consultants who

pooled their talents to treat large air pollution control and electrostatic precipitation problems. Hall led projects and studies and was referred to as the "dean of electrostatic precipitation" in final EPSCO reports. Technical reports from H. J. Hall Associates were usually incorporated into EPSCO reports for clients. Hall worked closely with Willliam J. Armiger Jr., Philip B. Crommelin Jr., J. Albert Hudson, Jack R. McDonald, and Bill D. Pfoutz on the application, design, and operation of electrostatic precipitators in the electric utility industry. The series showcases EPSCO and Hall's involvement with the hot side to cold side conversion of electrostatic precipitators. In the 1970s, the hot side precipitator concept was developed and thought to be the answer to high-resistivity coals. Eventually, many precipitators began to fail due to inadequate structural design fuel analysis or undersized equipment. Hall and other EPSCO consultants provided inspections, performance predictions and modifications, and recommendations for hot side to cold side conversion of electrostatic precipitators. This series also chronicles Armiger's founding of EPSCON, the engineering and installation company created to complement EPSCO, and further documents the merger of EPSCON with F.L. Smidth & Co. of Denmark into EPSCON-FLS.

Material types include blueprints, brochures, consultant agreements, correspondence, data, drawings, graphs, memoranda, newspaper clippings, notes, photographs, printed matter, proposals, research material, studies, technical reports, and other papers.

Arranged alphabetically by topic or type of material.

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Environmental Products and Services Company, 1952-2001

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Writing and Lecture File, 1947-2002 BOX 172-185

The Writing and Lecture File contains lectures, speeches, and writings reflecting the breadth of Hall's contributions to the areas of air pollution control and electrostatic precipitation. The papers and publications file consists primarily of a chronological file with drafts, notes, and published editions of scientific papers and technical reports. The lectures and seminars file includes a chronological file with drafts, notes, research material, and papers presented at conferences. Also included are topical files containing background data, notes, and research material relating to lectures and seminars presented by Hall. Reflected in the series are Hall and Jacob Katz's collaborations on electrostatic precipitation seminars, which they presented throughout the United States from 1981 to the late 1990s. Thomas R. Keeler later joined them and presented along with Katz on the operation and maintenance of electrostatic precipitators while Hall focused on the technical aspects.

Material types include bibliographies, blueprints, conference proceedings, consulting agreements, correspondence, charts, drawings, graphs, photographs, speeches, supporting material for lectures, reports, and other printed matter.

Arranged by format and thereunder alphabetically or chronologically.

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	The 2023 Addition contains material initially removed from the collection for conservation purposes and complements the rest of the collection. All papers have undergone mold remediation and artifacts have been properly housed. This series contains final reports from the H. J. Hall Associates consulting firm from 1972 to 1982 and cover the time span not reflected in the reports in the H. J. Hall Associates series. Reports generally pertain to Hall's analyses of the design and operation of electrostatic precipitators and include recommendations for improving and upgrading performance at various industrial facilities and power plants. Material in the series highlights Hall and his Research-Cottrell colleagues' efforts to document research and development activities relating to the evolution of new technology and hardware at Research-Cottrell from 1947 to 1966. Also included are two reports by Harry J. White prepared while at the Radiation Laboratory; Hall's contribution appears in the report on condenser charging in line type modulators. Hall's accomplishments are further reflected in patents, résumés, and other printed matter mentioning his achievements from 1962 to 1993. Material types include administrative records, articles, blueprints, calculations, charts, correspondence, drawings, notes and jottings, patents, photographs, printed matter, progress and technical reports, résumés, and other papers. Arranged and described according to the series from which items were initially removed and therein alphabetically by topic or type of material.
BOX 269	Research-Cottrell and Research Corporation
BOX 269	Description, operation, and maintenance instructions for Cottrell-ette precipitator, 1967

Container	Contents
вох 269	High-pressure and high-temperature electrostatic precipitation, 1950-1966 (2 folders)
BOX 269	Industrial gas cleaning, 1963-1966
BOX 269	Memoranda, 1962-1967
BOX 269	Projects and research
BOX 269	812-12-03, "1500 MA Rectifier Set," 1955-1972
	(2 folders)
BOX 269	Pulse energization
BOX 269	Department of Health, Education, and Welfare, 1962-1965
BOX 269	Low-level pulser system, 1962-1967
BOX 269	Patents and references, 1954-1957, 1965-1969
BOX 269	Projects
BOX 269	41, commercial pulser design, 1952
BOX 269	284-01, pulse energization program, 1962-1963
BOX 270	810-17, impulse tester, 1966-1967
BOX 270	D-3, "15 KW pulser development," 1950-1952
	(2 folders)
BOX 270	Pulse transformers, 1947-1950
BOX 270	Pulser precipitation, 1963-1968
BOX 270	Solid-state pulser development, 1963-1969
BOX 270	Technical memorandum, 1951-1952, 1961-1962
BOX 270	Transformer designs, 1947-1949
BOX 270	Waterside Generating Station, New York, N.Y., 1950-1952
BOX 270	Reports, 1967-1968
	(3 folders)
BOX 271	Reports, 1967-1968
BOX 271	Research and development activities in the period 1947-1966
BOX 271	Draft report and outlines, 1966
BOX 271	Financial data, 1963-1966
вох 271	Growth and trend factors in electrostatic precipitation and industrial gas cleaning, 1950, 1959-1966
071	(2 folders)
BOX 271	Major new equipment and system developments, 1963-1966, undated
nov 271	(2 folders)
BOX 271	Memoranda, 1966
BOX 272	Other air pollution companies, 1962-1963, undated
BOX 272	Patent activities and results, 1966 (2 folders)
BOX 272	Pilot plant investigations, 1965
BOX 272	Pioneer precipitator and industrial gas cleaning applications and equipment, 1962-1966
BOX 272	Published papers, 1946-1966 (4 folders)
вох 273	Technical papers and reports, 1947-1950, 1965-1966 (5 folders)
BOX 273	Silicon control rectifier
BOX 273	Main line automatic control, 1965-1972
BOX 273	Transformer, 1956-1963

Container	Contents
вох 273	Technical memoranda and papers, 1966-1967
	(2 folders)
BOX 274	Recon Systems
BOX 274	Board of directors meeting, 1969
BOX 274	Consolidated Edison Co. of New York, 1970-1974
	(2 folders)
BOX 274	Correspondence, 1969-1972
BOX 274	Introduction packet, 1970-1985
BOX 274	Partial listing of projects, circa 1969
BOX 274	Precipitation rectifier control systems, 1969
BOX 274	Press releases, 1970
BOX 274	Technical reports
BOX 274	1969
	(3 folders)
BOX 274	1970
BOX 275	1970
BOX 275	1971
	(4 folders)
вох 275	1972
	(2 folders)
вох 276	1972
	(2 folders)
BOX 276	United Air Specialists, Inc., 1969-1970
вох 276	H. J. Hall Associates
BOX 276	Clients, undated
BOX 276	Company experience and expertise, 1978, undated
BOX 276	Correspondence, 1973-1998
	(4 folders)
BOX 276	Invoice time data, 1981-1985, 1997
BOX 276	Office information and location, 1980, undated
BOX 277	Pennsylvania Electric Co., Keystone Station, Shelocta, Pa., opacity problem, 1982-1985
	(2 folders)
BOX 277	Public Power Corp., Engineering and Construction of Thermoelectric Projects Department, 1987
	(2 folders)
вох 277	Technical reports and papers
BOX 277	Chronological lists, 1972-1982
BOX 277	Final reports and papers, compilation
BOX 277	1972
BOX 277	1973
	(3 folders)
BOX 278	1973
	(4 folders)
вох 278	1974
	(3 folders)
BOX 279	1974
	(2 folders)

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Container	Contents
вох 279	1975
BUA 2/9	(5 folders)
вох 280	1975
BOX 280	1976
BOA 200	(7 folders)
вох 281	1976
BOX 281	1977
BOA 201	(7 folders)
вох 282	1978
BOX 202	(5 folders)
вох 282	1979
BOX 202	(2 folders)
вох 283	1979
BOX 205	(2 folders)
вох 283	1980
BON 203	(5 folders)
BOX 284	1981
2011	(7 folders)
вох 285	1982
2011 200	(4 folders)
вох 285	1987
BOX 285	Topical reports and papers
BOX 285	American Electric Power Service Corp., 1977-1983
2011 200	(3 folders)
вох 286	Combustion Engineering, 1975-1976
2011200	(2 folders)
вох 286	Fluid-Ionics Systems, wet electrostatic precipitators, 1971-1982
вох 286	Paper mills, 1973-1991
BOX 286	Pennsylvania Electric Co., 1972-1976
	(4 folders)
вох 287	St. Joe Minerals Corp., upgrading hot roaster precipitators, 1976-1977
	(2 folders)
вох 287	Working file
вох 287	1986
	(6 folders)
вох 288	1986
	(3 folders)
вох 288	1987
	(5 folders)
BOX 289	1988
	(3 folders)
BOX 289	1989
	(6 folders)
BOX 290	1991
	(3 folders)
BOX 290	Environmental Products and Services Company
BOX 290	Company information packet and flyer, 1987, undated
вох 290	Correspondence and memorandum, 1992-1996

Container	Contents
вох 290	EPSCON-FLS, 1990-1995
	(2 folders)
вох 290	Meetings, 1991-1996
BOX 291	Projects and reports
BOX 291	Alabama Power Co., Gorgas Steam Plant, Parrish, Ala., 1985-1986
	(3 folders)
вох 291	Baltimore Gas and Electric Co., Herbert A. Wagner Generating Station, Curtis Bay, Md., 1990
BOX 291	Carolina Power and Light Co., Roxboro Electric Generating Station, Roxboro, N.C., 1986
BOX 291	Final reports
BOX 291	1987
	(3 folders)
BOX 292	1987
	(6 folders)
BOX 292	1988
	(2 folders)
BOX 293	1989
	(3 folders)
BOX 293	1990
	(6 folders)
вох 293	1993
вох 294	J. T. Deely Station, San Antonio, Tex., 1981-1988
	(4 folders)
вох 294	Northern Indiana Public Service, Rollin M. Schahfer Generating Station, Wheatfield, Ind., 1989
205	(2 folders)
вох 295	Wisconsin Power and Light Co., Columbia Energy Center, Portage, Wis., 1987-1989 (3 folders)
вох 295	Seminar, EPSCO Hot-Cold Workshop, Pine Mountain, Ga., 1988
	(3 folders)
BOX 295	Writing and Lecture File
BOX 295	Lectures and seminars
BOX 295	Chronological file, 1987
	(2 folders)
BOX 296	Electrostatic precipitation seminars
BOX 296	Lectures and background material
BOX 296	1980-1993
	(7 folders)
вох 297	1994-circa 1995, undated
	(2 folders)
вох 297	Reference material, 1990-1992
	(3 folders)
BOX 297	Papers and publications
BOX 297	Chronological file
BOX 297	1947-1966
BOX 298	1967-1983
	(5 folders)
BOX 298	List of publications, 1968

2023 Addition, 1910-1999

Container	Contents
вох 298	Subject File
BOX 298	Acid rain and air pollution control, 1980-1991
BOX 270	(2 folders)
BOX 299	Acid rain and air pollution control, 1980-1991
30X 299	Ash resistivity and pulse energization, 1996
30X 299	Automatic voltage control, 1984
ox 299	Belco Pollution Control Corp., sulfur trioxide (SO ₃) system, 1986
BOX 299	Beltran Associates electrostatic precipitator, 1972-1973, 1988
30X 299	Biomass combustion, 1987-1995
BOX 299	Boilers and combustion process, 1981-1985
BOX 299	Coal gasification, 1971
BOX 299	Coal-oil mixtures and coal-water slurries, 1979-1982
BOX 277	(2 folders)
BOX 299	Consultants and consulting guide, 1975-1980
BOX 299	Conversion units, undated
BOX 299	Current limiting reactor, 1963-1965, 1973-1981
BOX 299	Electric Power Research Institute, 1974-1975
BOX 299	Electron beam process, 1973-1988
BOX 299	Electrostatic liquid cleaner, 1963-1970
BOX 299	Electrostatic precipitation and gas cleaning, 1971-1972
BOX 300	Flue gas desulfurization, 1984
вох 300	Fluidized-bed particulate removal, 1969-1992 (2 folders)
BOX 300	High-carbon precipitator data, 1975
300 aox	High-intensity ionizer, 1975-1979
300 Box	Lehigh University, Bethlehem, Pa.
300 Box	Fly ash resistivity, 1973-1975
300 Box	Solid waste management, 1970-1972
BOX 300	Low sulfur (S) coal installation, 1976
BOX 300	Lucidyne Inc., 1984
вох 300	Model study, gas flow distribution, 1953-1985
200	(2 folders)
BOX 300	NaTec Resources, Inc., 1990-1994
BOX 300	Ozone, 1962-1972
вох 301	Pulse energization, 1965-1973
nov 201	(2 folders)
BOX 301	Research-Cottrell study, dust resistivity and design, 1997
BOX 301	Resistivity temperature graph, undated
BOX 301	Statistics, undated
301 301	South Carolina Public Service Authority generating stations, 1979-1981, 1991 (3 folders)
BOX 301	Southern Research Institute, survey of European electrostatic precipitators, undated
301 Box 301	TelTech Resource Network Corp., 1987-1999
301 Box 301	Union Carbide Corp., Linde Division, high-intensity ionizer, 1977
301 Box 301	Water pollution, 1970
BOX 301	Wet scrubbing for sulfur oxide (SO) removal, 1970
BOX 301	Wheelabrator Corp., 1966-1967

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Container	Contents
вох 302	Wheelabrator-Lurgi, Inc., 1968
BOX 302	Miscellany
BOX 302	Accomplishments and resumés, 1962-1993
	(4 folders)
BOX OV 1	Commemorative paper weight containing flue dust sample, 1910, undated <u>See Container OV</u> <u>1, same heading</u>
BOX OV 1	Glacier silt sample, Alaska, 1993 See Container OV 1, same heading
вох 302	Ideas and action items, 1970-1972
вох 302	Line type modulators, pulse forming network, and rectifier circuits, Radiation Laboratory, 1941-1946
	(2 folders)
BOX 302	Patents, 1968-1971
BOX OV 1	Volcanic ash souvenir, Mount Saint Helens, Wash., 1980 See Container OV 1, same heading
BOX OV 1	Volcanic ash souvenir, Mount Saint Helens and Spirit Lake, Wash., 1980 <u>See Container OV</u> 1, same heading
BOX OV 1	Oversize, 1910-1993
	The Oversize series contains a commemorative paper weight, glacier silt, and volcanic ash souvenirs. Volcanic ash samples are from the eruption of Mount Saint Helens, Washington, and a commemorative paperweight contains flue dust removed from the first electrostatic precipitator on a copper smelter in 1910.
	Arranged and described according to the series, containers, and folders from which the items were separated.
	2023 Addition
	Miscellany
BOX OV 1	Commemorative paper weight containing flue dust sample, 1910, undated
BOX OV 1	Glacier silt sample, Alaska, 1993
BOX OV 1	Volcanic ash souvenir, Mount St. Helens, Wash., 1980
BOX OV 1	Volcanic ash souvenir, Mount St. Helens and Spirit Lake, Wash., 1980