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Attn Richard Price, Researcher
Library and Archives
John Heinz History Center
1212 Smallman St.
Pittsburgh, PA 15222

Heinz Library

Feb. 23, 2007

Mr. Price,

Could I trouble you to send the following documents?

Series 1 - Box 17 - Folders 16 and 17

Series 3 - Box 53 - Folder 1 - files concerning H.P. Davis

Series 8 - Box 82 - Folder 10

Series 10 - Box 124 - Folder 6

Series 15 - Box 189 - the document "Principles and Practices of Network Radio
Broadcasting: Testimony of David Sarnoff before the Federal Communication
Commission," Washington, DC, Nov. 1938


You indicated in the attached email that the total cost for these documents is \$80.00.
Enclosed is a check for the same.

If you have any questions, please contact me at 703-761-2807 or susan@cwv.com.

Many thanks in advance,


Susan Burgess

George Westinghouse Museum
Wilmerding PA

Applica - 800-231-9786 
west consumer electronics

544 6986

Rashida

800-599-7569 - White Westinghouse

	done	Senator John
All radio - Pittsburgh		Henes Pitt
Robert Stakeley		Regional
		history
		center
412-454-6368		
Ed Reis - Exec Dir W Mus.		

Westinghouse Electric Corporation, 1865-2000 (1920-1985, bulk dates)

Historical Society of Western Pennsylvania Archives

MSS # 424

222 boxes (0.5 and 1 ft boxes, 1- 222); 100.5 liner feet

Scope and Content Note:

The majority of the materials contained in this collection pertain to Westinghouse Electric Corporation products and activities in the western Pennsylvania area from the start of the company in 1886 to the mid-1980s. However, the bulk of the materials date from 1920 to the mid-1980s. These materials came from the offices at Gateway Center (Pittsburgh, PA) and the Research and Development Center in Churchill, PA. They have been arranged in 16 "series" or broad subject categories. The largest series are Administrative, Products, Publications, and Research and Development Center.

The Scope and Content Note page numbers below indicate where a short description of the materials contained in a particular series can be found. The Container List page numbers indicate where a complete listing of all folder headings in that series can be found.

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Biographical Sketch of George Westinghouse (1846-1914)

The Westinghouse Electric Company was founded in Pittsburgh, Pennsylvania in 1886 by George Westinghouse Jr. George's father, George Westinghouse Sr., owned a machine shop in upstate New York that manufactured agricultural equipment, mill machinery, and small steam engines. George Sr. married Emaline Vedder in 1830 and they resided in Central Bridge, Schoharie County, New York. George Jr. was born there on Oct. 6, 1846, the eighth of ten children. In 1856 the family moved to Schenectady, New York where George attended school. When George was 14, he began working in his father's business after school. He and his father had negotiated a starting wage, but his father gave him opportunities for raises based on the work he produced. He had a mind inclined to inventing at an early age and at 15 had produced a small rotary engine.

The Civil War began and George enlisted in the Army in 1863. He served in the Infantry and Cavalry from 1863 to 1864 and later joined the Navy as an assistant engineer from 1864 to 1865. After the war he attended Union College in Schenectady, New York. However, his college experience lasted only four months because he was not interested in foreign languages and English rhetoric and always had his mind on one invention or another.

He returned to work at the family business and his rotary engine. In 1865 he received his first patent for his work on this engine. When he was restless in Schenectady, his father would send him on short business trips. In 1866 George was riding a train for one of these trips when a two car derailment ahead of his train led to a two hour wait for the passengers. Watching the railroad men work on the derailed train, George thought of a better way to put the cars back on the tracks. At home he worked out his ideas, but his father was unwilling to loan him money for an invention outside the threshing industry. Only 20 years old, George found help from two local businessmen and was soon selling his car-replacers and reversible steel frogs (a railroad track switching mechanism). Two years later, when business was slow, the two businessmen decided to end their partnership with George. He decided to travel to Pittsburgh where he had heard about a new foundry that could produce the steel for his railroad frogs cheaper than the mills in New York.

He soon had a contract with Anderson and Cook to manufacture his equipment. He had also met the young Pittsburgh entrepreneur Ralph Baggaley, and the two of them formed a partnership to develop George's next invention- the airbrake. The air brake was finally tested in 1868 and became the basis for the founding of the Westinghouse Air Brake Company in 1869. His work to improve railroad signaling devices led to the founding of Union Switch and Signal in 1881. Overall, his inventions would lead to 361 patents and 61 companies.

George married Marguerite Erskine Walker from Roxbury, N.Y. on August 8, 1867. Although George and his wife moved to Pittsburgh in 1868, it was not until 1871 that they bought the home referred to as "Solitude" in the Homewood vicinity of Pittsburgh. They also maintained a summer home called "Erskine Park" in Lenox, M.A., and a winter home in Washington, D.C. George Jr. died on March 12, 1914 and Marguerite died a few months later on June 23. They are both buried in Arlington National Cemetery in Washington, D.C.

The couple had one son, George Westinghouse III, who was born on May 20, 1883. George III was educated at Yale and later married Evelyn Violet Brocklebank in Cumberland England in 1909. He worked for Westinghouse Air Brake in Wilmerding briefly, and then moved to Vancouver Island, British Columbia. His wife Evelyn died in 1943. He died in 1962. They had 6 children (3 boys and 3 girls). They named one son George Thomas Westinghouse (born in

1911 in Pittsburgh). Another namesake is a great-grandson George Westinghouse IV. He was born on June 1, 1947 and lives in Atlanta, Georgia.

Westinghouse Electric Corporation Historical Sketch

The Westinghouse Electric Company was started in 1886 with a workforce of 200 men in a small plant in Garrison Alley, Pittsburgh, PA. The name was changed to Westinghouse Electric and Manufacturing Company in 1889 and to Westinghouse Electric Corporation in 1946.

The Company was founded to build electrical equipment for a new type of distribution system that George Westinghouse modeled after the distribution system for natural gas. With men such as William Stanley and Nikola Tesla as employees, the Westinghouse Electric Company produced many new types of commercial and industrial equipment for the generation, transmission, and application of electricity. Their early equipment included the first transformer in the U.S., generating stations, meters, motors, and transmission lines.

Although the Company produced both direct and alternating current machines, George Westinghouse became an early proponent of alternating current and was eager to prove its advantages over the direct current system. In 1891 the company built the first high voltage transmission line in California. In 1893 Westinghouse won the contract to provide incandescent lights for the World's Columbian Exposition in Chicago. The display that the Company produced was considered to be the greatest display of incandescent lighting at the time in the world. The Fair not only helped publicize the Westinghouse name, it also proved the safety of the new Alternating Current method to the public.

The Company grew and in 1895 moved to East Pittsburgh to expand its facilities. The new plant comprised over two million square feet on forty acres of land. In 1900 they produced the first steam generator for the Hartford Electric and Light Company. By 1915 the Westinghouse Electric International Company was established to distribute its products worldwide.

During the first half of the 20th century, Westinghouse Electric and Manufacturing Company had a period of rapid growth and diversity of products. Among the new additions were household appliances, broadcasting, nuclear power, defense contracts, and transportation equipment. Major Westinghouse developments in these fields follow.

Transportation- Westinghouse electrified the New York, New Haven, and Hartford Railroad in 1906. The Company invented the first automatic electric substations for railroads in 1917. Westinghouse also produced many powerful electric locomotives, including the first diesel-electric locomotive rail car in the U.S. in 1929. Westinghouse was also famous for producing people-movers, elevators, and subway equipment.

Appliances- The Westinghouse Electric and Manufacturing Company produced the first electric range in 1917. The electric clothes iron, coffee percolator, and waffle iron soon followed. In 1934 it opened the first all-electric home- the "Electric Home of Tomorrow"- in Mansfield, OH. Its first home Air Conditioning units were sold in 1937. Westinghouse produced home appliances until 1972, when the Major Appliance Division was sold.

Broadcasting- The first commercially licensed radio station was developed by Westinghouse engineers in 1920. Called KDKA, it's first broadcast was the Harding-Cox election results. Westinghouse engineers also developed the first all-electric television cathode ray tube from 1929-1931. A precursor to satellite television, Westinghouse introduced

Stratovision in 1945. Westinghouse broadcasting grew to include 11 radio stations and five television stations around the country.

Nuclear- The first industrial machine of its kind, the Atom Smasher was erected at the Westinghouse Research and Development Center in 1937. By 1941 Westinghouse was producing pure uranium. On December 10, 1948 Westinghouse won a contract from the Navy and the Department of Energy to develop, design, construct, test, and operate a land-based prototype of a water-cooled reactor power plant suitable for marine propulsion. It was called the Naval Nuclear Propulsion Program. The Bettis Atomic Power Laboratory was established as a government-owned, contract operated facility for this purpose in 1949. The engine and propulsion equipment for the first nuclear powered submarine, the *Nautilus*, were built by Westinghouse Bettis and launched in 1954. Three years later, Westinghouse Nuclear Power Division adapted this technology for commercial uses and built the generating plant for the first commercial-scale nuclear power facility in Shippingport, PA. In 1961 Westinghouse Astronuclear Laboratory was awarded a government contract to design and build a Nuclear Engine for Rocket Vehicle Application. The Bettis Atomic Power Laboratory was sold to Bechtel Bettis Inc. in 1999.

Defense- Westinghouse Defense contracts range from helmet liners to nuclear propulsion equipment for spacecraft, but most of the contracts dealt with radar, electric systems, and nuclear technology. During World War II, the Company received production awards for its contributions to the war effort.

Electronics- ANACOM, a general-purpose analog computer was developed in 1948. Westinghouse engineers also developed molecular electronics in 1959.

Fueling these developments was an active Research and Development Laboratory. In 1895 it started as three rooms called the "electrical laboratory." When the company moved to East Pittsburgh in 1895, each department had its own research laboratory. All research was combined in 1904 as a distinct research department. In 1910 the first building specifically for research was erected at the East Pittsburgh plant. In 1916, the research department moved to a newly built laboratory in Forest Hills, PA. In 1955, the research center moved to a new laboratory in Churchill, PA. The Churchill laboratory added two more buildings and eventually became the Research and Development Center. This site would be the final site for research at Westinghouse and by 1974 would come to include eight major buildings, including a cafeteria, auditorium, and library. The Research and Development Center was also called the Science and Technology Center.

During the 1960s and early 1970s, Westinghouse Electric Corp. continued to expand their business into a more diversified conglomerate by adding financial and real estate services to the company name. At its peak, there were 135 divisions within Westinghouse Electric. Financial troubles led the company to sell some of these divisions over the next ten years and in 1987 the company was restructured into 23 business units. However in the early 1990s there were more financial problems with real estate investments and the Westinghouse Credit Corporation. Despite these problems Westinghouse Electric bought CBS in 1995. Two years later, on December 1, 1997, the company changed its name to CBS and relocated to New York. Under CBS the three businesses that stayed in Pittsburgh were called Westinghouse Electric Company or WELCO. They comprised of non-nuclear energy systems, government operations, and process control.

Collection Level Scope and Content Note:

The majority of the materials contained in this collection pertain to Westinghouse Electric Corporation products and activities in the western Pennsylvania area from the start of the company in 1886 to the mid-1980s. However, the bulk of the materials date from 1945 to the mid-1980s. These materials came from the offices at Gateway Center (Pittsburgh, PA) and the Research and Development Center in Churchill, PA. They have been arranged in 15 "series" or broad subject categories. The largest series are Administrative, Products, Publications, and Research and Development Center.

This collection contains information on a small portion of its many employees. It also contains very few unpublished materials about nuclear power.

Separations:

This collection also contains oversize materials, slides, film, photographs, and negatives. Separate finding aids have been made for each of these formats.

Books of general or historical interest from the Research and Development Library have been separated to the main HSWP Library collection. A list of these books can also be found at the end of this finding aid as Addendum I on page 118. Among these books is a set of bound Westinghouse Magazine and Westinghouse News (1914-1982). The bound volumes of the Westinghouse News from 1947- 1968 also contains issues from specific facilities such as:

- Athens News (Athens, GA)
- Buffalo Division News (Buffalo, NY)
- Electrical Guardian (Newark, NJ)
- Elevator News (Jersey City, NJ)
- Lamp Post (Bloomfield, NJ)
- Outdoor Lighting Department Times (Cleveland, OH)
- Muncie Extra High Voltage News (Muncie, IN)
- Nuclear Reactions (Atomic Power Divisions, Pittsburgh, PA)
- Raleigh Meter Digest (Raleigh, NC)
- Research Developments (Research and Development Center, Pittsburgh, PA)
- Semiconductor (Youngwood, PA)
- Sharon News (Sharon, PA)
- SP Sales News (Specialty Products Field Sales, Pittsburgh, PA)
- Steam Division News (Lester, PA)
- Tube Topics (Elmira, NY)
- WCC News (Westinghouse Credit Corporation, Pittsburgh, PA)
- WESCO News (Westinghouse Electric Supply Company, Pittsburgh, PA)

The Library also has a set of bound Westinghouse Engineer magazines (1941-1975). An index for articles and authors in all of these magazines is available in the library.

Statement of Provenance:

Archives Accession # 1998.0209 Gift of the Westinghouse Corporation. Deed of Gift signed by G. Reynolds Clark on December 17, 1996.

Funding to process this collection was generously given by the Pennsylvania Historical and Museum Commission through the Archives and Records Management program.

Special thanks to the History Center volunteers and members of the Westinghouse SURE organization who volunteered their time to help process this collection:

Nancy Carlson, Gary DeLorenzo, Jim Dravillas, Pauline Edison, Robert Floreak, Ed Gerstenhaber, Larry Koster, Michelle Kubiak, Fredrick Pement, John Peters, Jane Pokorski, and Paul Topolosky.

Series Scope and Content Notes

Series I: Administrative (1881-1997)

This series is arranged alphabetically by department or topical folder heading. It contains administrative information (such as annual reports, financial and management information) and **department records** (such as the Sales and Graphics departments). (Note: Records of the Education Department are found in the Education series (series 2) due to their size.) There are also **several folders of newspaper and magazine articles** which discuss Westinghouse Electric Corporation in general or from a management viewpoint. This series also contains the records of subsidiary companies that Westinghouse operated of a service (rather than product) nature, i.e. **Westinghouse Broadcasting Company** and Westinghouse Credit Bureau.

A large group of records in this series **pertain to radio broadcasting**. These materials contain three interesting groups of documents. The first group is a collection of correspondence between Westinghouse radio stations about materials, employees, equipment, finances, and contracts. Most of these letters date from the early 1930s. The correspondence also contains topical groups such as letters from Horace Lahnes, a lawyer in Washington, D.C. who helped Westinghouse with the Federal Radio Commission, and the Transmitter Tube Committee. When

Westinghouse established shortwave stations for international broadcasting in the early 1940s, many listeners wrote to the stations in Pittsburgh and Boston. These letters were labeled "Mail Bag" and come from listeners in places such as South America, Cuba, Australia, Africa, and Alaska.

The second group of materials under Radio Broadcasting is a set of scripts from a radio show by Ted Malone in 1946. As part of the celebration of what would be George Westinghouse, Jr.'s 100th birthday, he broadcast interviews with Westinghouse employees from various plants. Lastly, the "Musical Americana" folder contains advertisements, programs, and tickets from KDKA's recordings of the "musical program in appreciation of Things American."

Series II: Education (1891-1998)

This series has been arranged alphabetically by topical folder headings. The majority of the materials in this series pertain to the continuing education programs and services provided by the Westinghouse Electric Corporation to its employees, but some of the material in this series was produced by Westinghouse for the education and benefit of the public.

The Annual Reports were produced by the Education Department of Westinghouse Electric. The Extension Course materials were used during new employee orientation. The Graduate Lists in this series document the names of graduates from all training programs- from technical to management courses. The Style Guides are materials that were produced by the Company to assist employees with business writing and presentations. The Westinghouse Club/Educational Center was organized in 1904 to "contribute to the social, educational, and physical interests" of all Westinghouse employees. The Westinghouse Technical Night School provided technical training to anyone who needed "training opportunities." The Scrapbook contained in this series is a collection of news clippings and photographs pertaining to the activities of the Westinghouse apprentices, mostly their sports teams, from 1936 to 1952.

A summary of Westinghouse's educational programs can be found in Addendum I on page 119.

Series III: Employees (1885-2000)

This series is split into two sub-series. The General sub-series contains general information about Westinghouse employees as a group- mainly their benefits, activities, and strikes. It is arranged alphabetically by topical folder headings. It also contains the Industrial Relations Statistic books (1907- 1958) which are yearly reports that were produced by the Industrial Relations department. These reports document and analyze yearly statistics collected by the department about Westinghouse Electric employees. The collected statistics range from age and nationality to home ownership and reason for quitting. (For specific data about the employees of the East Pittsburgh plant, see the Facilities series, Series V.)

The second sub-series contains information about individual employees. These materials are arranged alphabetically by the last name of the employee and grouped into folders. Most of the information about these employees comes from a section of the Research and Development Center's Technical Bulletin called "Have You Met?" Accordingly, most of the employees listed in this series worked at the Research and Development Center. There are five employees for which more than one folder was required:

Chubb, Lewis W.- Director of the Research and Development Laboratory from 1930-1948. He worked at Westinghouse for 42 years and had 200 patents. He was an engineer who played a significant role in the development of commercial radio. He also won both the Benjamin S. Lamme and John Fritz Medals.

Hutcheson, John A.- Appointed Director of the Research and Development Laboratory in 1949 and Westinghouse Vice President in 1950. He started working at Westinghouse in 1926 and contributed greatly to the establishment of a new Research and Development facility in 1956.

Mechlin, George F.- Vice President of the Research and Development Laboratories from 1973-1987. He was also appointed as a Westinghouse Vice President in 1972. He started work with Westinghouse in 1949 on nuclear and oceanographic projects.

Ruch, Charles- Director of Employee Communications. After his retirement in 1980, Ruch became the volunteer corporate historian. He helped establish the George Westinghouse Museum in Wilmerding, PA and was well known for his characterization of George Westinghouse, Jr. at company events. The majority of his correspondence relates to reference

questions he received in his capacity as volunteer historian. A database of this correspondence is available in the library.

Slepian, Joseph- Appointed Associate Director of the Research and Development Laboratory in 1938 and winner of the John Scott, Benjamin S. Lamme, and Edison Medals. He worked at Westinghouse from 1916-1956 and had 204 patents. He was part of the team that worked on the first atomic bomb.

Series IV: Exhibitions (1895-1965)

This series is arranged chronologically. It consists of Westinghouse materials from numerous fairs including the World's Fairs of 1939 and 1964-1965, both held in New York. In it are brochures, booklets, articles, and correspondence about the Westinghouse Electric exhibits and buildings. Among many popular Westinghouse attractions at the 1939 World's Fair were the Tower of Light, Elektro the Mechanical Man, and the Time Capsule. Also in 1939, Westinghouse produced a film titled "The Middleton Family at the World's Fair." This full-color, hour long movie was filmed at the Westinghouse building on the grounds of the World's Fair, and depicted the experience of a typical American family at the World's Fair. Among the materials for this event are a script and promotional materials. Advertising posters for the film are stored in oversize drawers.

Series V: Facilities (1895-1996)

This series contains both collective and specific information about Westinghouse Electric Corporation manufacturing and service facilities and division headquarters. This series contains information specifically about facilities, not the products produced there. All product information will be found in the Products series (series IX). In addition, information about the Research and Development/ Science and Technology Center has been filed under its own series due to the size and complexity of the materials.

In this series, a few general folders contain comprehensive lists or directories of facilities and contacts within them. Also in this general subseries is the "Special Section" folder which contains small facility-specific booklets that were inserted into the general company employee handbook. They are too numerous for individual folders and therefore have been collected into this one folder.

Materials in the specific facility folders are mostly brochures, directories, and maps. They are arranged alphabetically by geographic location or name of the facility (East Pittsburgh, Gateway, etc.). (In most cases, the name of the facility was its location.) Individual international facilities are filed by the name of the country in which they operated (such as United Kingdom or China).

There are also oversized maps of the East Pittsburgh facility stored in the oversize drawers.

Series VI: George Westinghouse, Jr. (1865-1997)

This series contains biographical information about the founder of the Westinghouse Electric Corporation, George Westinghouse, Jr., and is arranged alphabetically by folder title. Articles about the life of George Westinghouse, Jr. and his contributions to society will be found here as well as a number of short biographies written about him. Information about memorials dedicated to him, awards received, his patents, residences, and descendants will also be found in this series. Of particular interest are two folders of employees' reminiscences of George Westinghouse, Jr. collected in 1935.

Series VII: Histories (1902-1989)

This series consists of speeches, articles, and publications written about the Westinghouse Electric Corporation in general. These histories are so general that they do not fit into a product, facility, or other series. Many of these materials are of a commemorative nature, recounting the history of the Corporation and its achievements. Therefore, this series also contains information about the Westinghouse anniversary celebrations. This series is arranged differently from other series in the collection, in that it is arranged chronologically by the date the material was written. This was done in order to aid users who are looking for histories written at a certain chronological time, rather than a specific title of the history. However the title of each history (when available) is listed as the folder heading for reference as well. These titles may also help the user gain a slightly more specific idea about the subject of the material in the folder.

Series VIII: Press Releases (1929-1988)

This series consists of official press releases made by the Westinghouse Electric Corporation about a wide range of topics including products, employees, facilities, and research. They are arranged chronologically. Photographs were attached to many of these press releases, but for preservation reasons the photographs have been separated from the document and cataloged separately. Photographs can be identified through the PR number listed at the end of each press release document. Included in this series is also a card catalog index of press releases from 1955-1975 that provides the topic, date, and corresponding photographs for each press release.

Series IX: Products (1886-1997)

This is one of the largest series in the collection and it contains information about products manufactured by Westinghouse Electric. (Information regarding plants that manufactured specific products will not be found here, but in the Facilities series, Series V.)

This series is divided into two subseries: General and Specific. This was necessary because some of the materials in this series are bound catalogs that contain information about many different products and therefore could not be placed into one product group. The General subseries contains these bound *catalogs* that include everything that Westinghouse Electric manufactured- from motors to light bulbs and appliances. The 1892 catalogs are narrative in style, with few images of the products, while the 1893 catalog consists of product photographs only. Customers could then request more information about a product from the Company. The 1920 general catalog is the first to combine narrative and image as well as list the price of the products.

Also in the General subseries are other manuals that cover a broad range of products. The *General Order Manual* outlines the proper procedures that employees should use when submitting a purchase order and when dealing with a government contract, in particular with the War Department. The *Power Department Technical Data* book contains technical data about machines produced by the Power Department- generators, turbines, reduction gears, air ejectors, and condensers. The *Resale Commercial Data* books were produced to ensure company-wide knowledge of contracts with appliance and machinery manufacturers that used Westinghouse Electric products in their appliances and machines. Knowledge of these contracts would then

improve the technical support services that Westinghouse provided to these companies, and also help Westinghouse pinpoint fundamental problems with their products. Lastly, the *Stock Identification Record* contains information on every product Westinghouse Electric produced. It contains a short description of the product, its identification number, and its schedule number.

The Specific subseries is broken down into 18 broad product groups and contains catalogs, advertisements, brochures, articles, and correspondence about specific Westinghouse products. In most cases, this subseries is arranged alphabetically by topical folder headings. Further notes about specific arrangements and products will be listed under the name of the broader product group.

Series X: Publications (1904-1996)

This series consists of internal and external materials published by the Westinghouse Electric Corporation. In this series you will not find:

- publications concerning specific products or events for which series have been established in this collection (i.e.- Electric Railroad Equipment, WWII, etc.).
- publications produced by organizations other than Westinghouse Electric Corporation- such as the Westinghouse Machine Company or the American Institute of Electrical Engineers. These will be found in the Related Companies and Organization series under the name of the company or organization that published the document.
- publications from the Research and Development/ Science and Technology Center. These have been filed in the Research and Development/ Science and Technology series due to their nature and quantity.

Most of the internal publications in this series are employee newsletters from specific departments, facilities, or divisions. These materials are filed alphabetically by the title of the publication, although the location or name of the department, facility, or division is also provided in the folder heading. Employee publication titles are listed in italics to distinguish them from publications made for the public. The newspapers from the Westinghouse Technical Night School- the *Tech Owl* and the *Alumni Association Newsletter*- are also included in this series. Oversized original editions of 1947 and 1948 Tech Owls are stored in oversize drawers.

This series also contains publications distributed to Westinghouse customers, visitors, and the general public. These publications usually describe a general overview of the corporation, its products, and research. In contrast to the employee publications, they are usually printed on glossy paper with color photographs, and use a more formal writing style.

Series XI: Related Companies/Organizations (1881- 1998)

This series is organized alphabetically by the title of the company or organization. The companies and organizations represented here have some connection with the Westinghouse Electric Corporation, but the materials are not technically part of the Electric Corporation's records. Materials from other Westinghouse companies, such as the Westinghouse Air Brake Company and the Westinghouse Machine Company, will be found here- as well as materials about the George Westinghouse Museum, the Westinghouse SURE retiree organization, and even General Electric. Also filed here are publications concerning issues related to the business of Westinghouse Electric- such as materials from professional organizations and journals. These materials may have been collected for one of two reasons: a Westinghouse employee authored one of the articles, or the Company owned a subscription to the journal.

Series XII: Reprints (1901-1950)

This series contains articles from professional journals that had been clipped and saved by the Westinghouse Library staff. The articles are mostly technical in nature and pertain to products that Westinghouse produced. They have been divided into 28 general subject categories and arranged alphabetically by these categories.

Series XIII: Research and Development/ Science and Technology Center (1917-1998)

This series is arranged alphabetically by topical folder heading or division, and is divided into 6 subseries. The first five subseries contain information relating to the Center as a whole. The first subseries consists of the Center's *annual reports* and presentations made by the Center to the Westinghouse Electric Board of Directors.

The second subseries contains information about the *facilities* of the Research Center. It documents the building and dedication of the 1956 facility in Churchill Borough, as well as the establishment of a facility in Belgium.

The third subseries consists of articles and presentations about the *history* of research at Westinghouse Electric. It is arranged chronologically by the date of the presentation or publication of article to facilitate a more general search of this subseries.

The fourth subseries- *Organization*- contains information about the internal workings of the Center. It is comprised of directories, strategic plans, and presentations about future goals and managerial issues. The Organization and Activities brochures give a brief overview of the structure and research of the Center.

The fifth subseries- *Publications*- contains materials published specifically for the R&D/S&T Center. Some of the publications are produced for internal purposes (i.e.- employee newsletters), and some were used for visitors, customers, and the general public.

The last subseries contains information specific to projects and products in each division within the Center, usually product brochures and division publications. It is arranged alphabetically by the title of the division and more information about the composition of these divisions will be listed with the Container Listing. The organizational charts and descriptions provided in the "Organization and Activities" brochure of the 1970s served as the basis for identification of these divisions.

Series XIV: Speeches (1968-1980)

This small series is arranged chronologically by the date the speech was made. The title of the speech, the presenter, and in some cases the event are recorded in the folder heading. The speeches in this series occurred from 1960-1980 and were mostly given by members of the senior management.

Series XV: Westinghouse Library (1905-1993)

This series consists of books taken from the Research and Development/ Science and Technology Center's Library. They are technical in nature and have been retained in the collection because they either mention a Westinghouse product or were written by a Westinghouse employee. The books are arranged alphabetically by title. Author and publication information is also given.

Series XVI: World War II (1941-1995)

This series is separated into two sub-series. The Topical sub-series is arranged alphabetically by subject folder headings. These materials document Westinghouse Electric's effort to educate their employees about health, production, and conservation issues through company published guide books and programs. It includes information about clubs and campaigns organized to promote this information, such as the Health for Victory Club and the More Kilowatt Hours for Victory campaign. The series also contains information about the war production awards and post-war rehiring procedures. Posters for this sub-series are stored in oversize drawers.

The second sub-series consists of reports on many divisions' wartime activities. These reports were requested from all divisions in 1946 to document the contribution of Westinghouse to the Allied war effort. The information in these reports is generally of a historical, rather than technical, nature.

Container Listings

Series I: Administrative (1881-1997)

This series is arranged alphabetically by department or topical folder heading. It contains administrative information (such as annual reports, financial and management information) and department records (such as the Sales and Graphics departments). (Note: Records of the Education Department are found in the Education series (series 2) due to their size.) There are also several folders of newspaper and magazine articles which discuss Westinghouse Electric Corporation in general or from a management viewpoint. This series also contains the records of subsidiary companies that Westinghouse operated of a service (rather than product) nature, i.e. Westinghouse Broadcasting Company and Westinghouse Credit Bureau.

A large group of records in this series pertain to radio broadcasting. These materials contain three interesting groups of documents. The first group is a collection of correspondence between Westinghouse radio stations about materials, employees, equipment, finances, and contracts. Most of these letters date from the early 1930s. The correspondence also contains topical groups such as letters from Horace Lahnes, a lawyer in Washington, D.C. who helped Westinghouse with the Federal Radio Commission, and the Transmitter Tube Committee. When

Westinghouse established shortwave stations for international broadcasting in the early 1940s, many listeners wrote to the stations in Pittsburgh and Boston. These letters were labeled "Mail Bag" and come from listeners in places such as South America, Cuba, Australia, Africa, and Alaska.

The second group of materials under Radio Broadcasting is a set of scripts from a radio show by Ted Malone in 1946. As part of the celebration of what would be George Westinghouse, Jr.'s 100th birthday, he broadcast interviews with Westinghouse employees from various plants. Lastly, the "Musical Americana" folder contains advertisements, programs, and tickets from KDKA's recordings of the "musical program in appreciation of Things American."

Box 1

Folder 1	Age Bias Lawsuit	1993
Folder 2	Air Mail Routes	1934
	Annual Reports	
Folder 3	1931-1940 (partial)	
Folder 4	1946-1948	
Folder 5	1950-1953	
Folder 6	1955-1959	
Folder 7	1960-1963	
Folder 8	1965-1969	
Folder 9	1970-1974	
Folder 10	1975-1979	

Box 2

Folder 1	1980-1984	
Folder 2	1985-1989	
Folder 3	1990-1994	
Folder 4	1995-1996	
Folder 5	Apparatus Service Division Capabilities	1973
	Articles	
Folder 6	1892-1946	

Box 3

Folder 1	1952-1988	
Folder 2	1991-1998	
Folder 3	Associated Companies list	c1920
Folder 4	Association of Edison Illuminating Companies	1912-1932
Folder 5	Board of Directors	1965
Folder 6	Business Environment Seminar	1962

Box 4

Folder 1	Business Practices in Multinational Operations Speech	1972
Folder 2	Bylaws	1964

Communications

Folder 3	Advertisement	1993
Folder 4	Conference Directory	1989
Folder 5	Employee communication conference	1957
Folder 6	Employee communication conference	1958
Folder 7	Employee communication guides	1957-1976
Folder 8	Employee suggestions	1973
Folder 9	Fortune 500 contest	1981
Folder 10	"Great Moments in Westinghouse" series	1963
Folder 11	guide	1969
Folder 12	"Looking back" column articles	1993-1995
Folder 13	Meeting Report	1978
Folder 14	Organizational chart	1969-1972
Folder 15	Pittsburgh Area Coordinators' meeting	1974
Folder 16	Productivity Improvement Booklet	1988
Folder 17	Project 73	1973
Folder 18	Report	Undated

Box 5

Folder 1	Training Manual	1965
Folder 2	Union story	1974
Folder 3	Western Hemisphere Program	1979-1980
Folder 4	What We've Learned from the Ad Reviews	c1960
Folder 5	Creed, Purpose and Strategy	1967-1972
Folder 6	Department of Defense Clearance	1990
Folder 7	Directory	undated
Folder 8	Directory	1968
Folder 9	Distribution Engineering Group report	1931
Folder 10	Division Managers' Coloring Book	1962
	Employee Annual Reports	
Folder 11	1938-1949	
Folder 12	1950-1954	
Folder 13	1955-1959	

Box 6

Folder 1	1960-1965	
Folder 2	1982	
Folder 3	Employee communications	1945-1952
Folder 4	Energy Systems and Nuclear Fuel Business Unit	1989
Shelf vol. 1	Engineering Memo Number Assignments (vol. I)	1920-1950
Shelf vol. 2	Engineering Memo Number Assignments (vol. II)	1950-1953
	Financial	
Folder 5	Analyst Seminar	1972
Folder 6	Annual Meeting	1968
Folder 7	Articles	1989-1993
Folder 8	Comparative Statement of Operations	1930-1931
Folder 9	Comparison with Other Billion Dollar Club Companies	1953-1956

	Folder 10	Comparison with GE	1906-1960
		Excess Profits Tax Relief Application	
	Folder 11	Vol. 1	1940-1943
Box 7	Folder 1	Vol. II	1940-1943
	Folder 2	Exhibit Vol. 1	1940-1943
Box 8	Folder 1	Exhibit Vol. II	1940-1943
	Folder 2	Exhibit Vol. III	1940-1943
	Folder 3	Exhibit Vol. IV	1940-1943
Box 9	Folder 1	Foreign Trade	1970-1971
	Folder 2	Growth Report	1958
	Folder 3	History, 1891-1908	1913
	Folder 4	Investors' Guide	1977
	Folder 5	Investors' Guide	1980
	Folder 6	Investors' Guide	1983
		Ledgers	
	Shelf vol. 3	1886-1887 Chicago Balance Sheets (trial)	
	Shelf vol. 4	1888 Chicago Balance Sheets	
		(United States Electric Lighting Co.)	
	Shelf vol. 5	1888 Chicago Balance Sheets	
	Shelf vol. 6	1888-1889 Chicago	
	Shelf vol. 7	1889-1893 Accounts receivable and payable	
	Shelf vol. 8	1895-1897 Assets	
	Shelf vol. 9	1908-1924 Subsidiary ledger #1	
	Shelf vol. 10	1930-1944 Sales Records	
	Shelf vol. 11	1935-1939 Taxes	
Box 10	Folder 1	No-Charge Termination Settlements	1945
	Folder 2	Orders, Income and Share Earnings	1953-1971
	Folder 3	Pay Roll Office correspondence	1881-1898
		Procedures	
	Folder 4	Part I	1960-1979
	Folder 5	Part II	1960-1979
	Folder 6	Shareholder Reports	1991-1997
	Folder 7	Shop Orders (25Y1000- 25Y2998)	undated
	Folder 8	Statement	1908-1909
	Folder 9	Statistic Books, Quarterly and Annual	1950-1974
	Folder 10	Statistic Cards, Quarterly and Annual	1950-1968
	Folder 11	Stockholder letter	1891
	Folder 12	Timekeeping and Payroll Manual	1941
	Folder 13	"Who Owns Westinghouse"	1945

Box 11

Folder 1	Global Manufacturing and Service Capabilities Report	1983
Folder 2	Government Affairs Graphics Department	1963-1972
Folder 3	Catalog	1952-1982
Folder 4	Ed Redings Booklet	undated
Folder 5	Envelopes	undated
Folder 6	Forms	undated
Folder 7	History	1988
Folder 8	Letterhead	undated
Folder 9	Misc. Products	undated

Box 12

Folder 1	Product Labels	undated
Folder 2	Signs	undated
Folder 3	Trademarks	1900-c1980
Folder 4	Group W	1970
Folder 5	Headline News Communication Human Resources	1995
Folder 6	New Concept Committee	1977
Folder 7	Transformation	1993
Folder 8	Hygiene and Safety Manual	1986
Folder 9	Industrial Relations Counselors Service	1957
Folder 10	Industrial Systems Organization	c1962
Folder 11	Institute for Resources Development	undated
Folder 12	International Technology Transfer Business (licensing)	1985
Folder 13	Japanese operations Management	1945-1950
Folder 14	ACEC Presentation to Policy Committee	1974
Folder 15	AEIC Address	1974
Folder 16	Board of Advice Report Comparison with General Electric	1962
Folder 17	Part I	1949-1960

Box 13

Folder 1	Part II	1949-1960
Folder 2	Part III	1949-1960
Folder 3	Corporate Organization Changes, 1958-1975	c1975
Folder 4	Corporation Analysis	1945
Folder 5	Discipline and Enforcement of Rules (Task Force "A")	1970-1972
Folder 6	Executive Forum Presentation	1977
Folder 7	Guidebook	1957-1960
Folder 8	Human Values Speech	1979
Folder 9	Identical Pricing hearing	1961
Folder 10	Mailing List	1980

Box 14	Folder 11	Management of Change Workshop	c1970
	Folder 1	Management Council Meeting	1964
	Folder 2	Management Council Meeting	1965-1966
	Folder 3	Management Council Meeting	1967-1969
	Folder 4	Management Council Meeting	1970-1971
	Folder 5	Personnel Changes	1993
	Folder 6	Reorganization Job Descriptions	1987
	Folder 7	Reorganization Division Managers' Meeting	1969
	Folder 8	Survey	1957
Box 15	Folder 9	Survey (by Division Managers)	1961
	Folder 1	Survey (of East Pittsburgh Divisions)	1964
	Folder 2	Toward a Definition of Westinghouse Today	1976
	Folder 3	TURK Group Reports	1971-1974
	Folder 4	"What Management Gives for What it Gets"	1945
	Folder 5	Wilcox Union-free Doctrine	undated
	Folder 6	Management Appeal Grievance Committee (Tester "C" job)	1969
	Folder 7	Manufacturing Headquarters	1959
	Folder 8	Material Disposition Report	c1981
	Folder 9	Materials Salvage	1930
	Folder 10	National Electric Week	1964
	Folder 11	Non-current Apparatus and Renewal Part Center (Homewood)	1977
	Folder 12	Office Supplies Catalog	1924
	Folder 13	Office Supplies Catalog	1980
	Folder 14	Organizational Chart	1992
	Folder 15	Organizational history of companies (general)	c1940
Box 16	Folder 1	Organization Manual	1981
	Folder 2	Organization and Planning Program	c1952
	Folder 3	"Organizational Evolution of Westinghouse, 1936-1986" speech	1985
	Folder 4	Patent Office	1923-c1950
	Folder 5	Patent Office Disclosure Records	1943-1960
	Folder 6	Policy, Executive Air Travel	1969
	Folder 7	Power Systems Personnel Relations Managers Presentation	1978
	Folder 8	Principle Products Analysis 1952-1982	1982
	Folder 9	Product Quality Contests	1949
	Folder 10	Productivity and Quality Center	1993

Box 17

Public Relations

Folder 1	Advertisements	c1900-1986
Folder 2	Advertising Council Meeting Remarks	1973
Folder 3	"Centuries of Progress" script	1985
Folder 4	Corporate Reorganization Announcement	1969
Folder 5	"Journey to Greatness" script	1989
Folder 6	"More Power to America"	1960
Folder 7	"Power of a Name" booklet	c1920
Folder 8	Staff Meeting Report	c1950
Folder 9	Solar Energy and Energy Priorities Paper	1975
Folder 10	"This is Westinghouse" script	undated
Folder 11	"Westinghouse- Building a Better World Through Technology, Partnership, And Innovation" script	1996
Folder 12	Westinghouse sign	1991
Folder 13	"Westinghouse- What is It?" script	undated

Radio Broadcasting

Folder 14	1956 Presidential Campaign	1956
Folder 15	Annual Report	1948
Folder 16	Articles	undated
Folder 17	Articles	1920-1938
Folder 19	Broadcast Museum	1988-1997

Box 18

Folder 1	Congressional Testimonies	1969-1973
	Correspondence	
Folder 2	Boston, MA (WBOS Mail Bag)	1939
Folder 3	Boston, MA (WBOS Mail Bag)	1940
Folder 4	Boston, MA (Station WBZ)	1924-1932
Folder 5	Boston, MA (Station WBZ)	1932-1933
Folder 6	Boston, MA (WBZ Technicians)	1941-1943

Box 19

Folder 1	CBS Shortwave Agreement	1941
Folder 2	Chicago, IL (Station KYW)	1932
Folder 3	Chicago, IL (KYW move)	1932
Folder 4	Chicago, IL (Station KYW)	1932-1933
Folder 5	Chicopee Fall, MA	1933-1935

Box 20

Folder 1	Federal Radio Commission (and FCC)	1933-1940
Folder 2	Fessenden Memorial Association	1963
Folder 3	International Shortwave Broadcasting	1941-1943
Folder 4	Lahnes, Horace	1933
Folder 5	Management (general)	1940-1941
Folder 6	Music Clearances	1940-1941
Folder 7	National Association of Broadcasters	1933

Folder 8	National Association of Performing Artists Contract	1940-1941
Box 21		
Folder 1	National Broadcasting Company	1933-1943
Folder 2	NBC Shortwave Agreement	1941
Folder 3	Newark, NJ	1925-1937
Folder 4	New York, NY (Station WMCA)	1931-1963
Folder 5	Pittsburgh, PA (Station KDKA/Hq)	1921-1931
Folder 6	Pittsburgh, PA (Station KDKA/Hq)	1932
Folder 7	Pittsburgh, PA (Station KDKA/Hq)	1932-1933
Box 22		
Folder 1	Pittsburgh, PA (Station KDKA/Hq)	1934-1981
Folder 2	Pittsburgh, PA (WPIT Mail Bag)	Jan-June 1940
Folder 3	Pittsburgh, PA (WPIT Mail Bag)	July-Oct 1940
Box 23		
Folder 1	Pittsburgh, PA (WPIT Mail Bag)	Nov-Dec 1940
Folder 2	RCA Victor Company, Inc.	1932
Folder 3	Programming (general)	1943
Folder 4	Springfield, MA (Station WBZA)	1923-1932
Folder 5	Springfield, MA (Station WBZA)	1932-1933
Box 24		
Folder 1	Time Spot Sales	1943
Folder 2	Toledo, OH	1931-1933
Folder 3	Transmitter Tube Committee	1930-1931
Folder 4	Transmitter Tube Committee	1932
Folder 5	Transmitter Tube Committee	1934
Folder 6	Transmitter Tube Committee	1935
Folder 7	Frequency Measuring Service	1933
Folder 8	John Charles Thomas Favorite Songs	1945
Folder 9	John Nesbitt "The Great Pyramid"	1946
	KDKA	
Folder 10	5 th Anniversary	1925
Folder 11	8 th Anniversary	1928
Folder 12	17 th Anniversary	1937
Folder 13	25 th Anniversary	1945
Folder 14	35 th Anniversary	1955
Folder 15	40 th Anniversary	1960
Folder 16	50 th Anniversary	1970
Folder 17	65 th Anniversary	1985
Folder 18	70 th Anniversary	1990
Folder 19	75 th Anniversary	1995
Folder 20	Articles	1924-1996
Box 25		
Folder 1	Commuter Computer	1973
Folder 2	Donald G. Little oral history	1952
Folder 3	Financial	c1937

Folder 4	Herald Test to Australia	1925
Folder 5	Historical Marker	1990-1997
Folder 6	Histories	c1945-c1974
Folder 7	"It Started Hear"	1970
Folder 8	license	1920
Folder 9	License transfer to Westinghouse Radio Stations, Inc.	1940
Folder 10	Musical America	1940-1941
Folder 11	Project History (1920 shack Recreation)	undated
Folder 12	Radio Broadcasting News	1922
Folder 13	Time Capsule	c2000
Folder 14	KYW (Chicago) Federal Radio Commission Appeal Court Record	1930
Box 26		
Folder 1	KYW (Chicago) Program schedule	1922
Folder 2	Marconi Memorial Dedication	1952
Folder 3	Miscellaneous Westinghouse Stations	1931-1946
Folder 4	National Association of Broadcasters Conference	1943
Folder 5	National Association of Broadcasters Convention	1964
Folder 6	Organizational Memberships	1943
Folder 7	Ted Malone Scrapbook Script	c1946
Ted Malone Scripts		
Folder 8	#2- Joe Meier- Lima, OH	1946
	#3- Joe Desch- Bloomfield, NJ	1946
	#4- James Cole- Newark, NJ	1946
	#5- John Vaccaro- Sharon, PA	1946
	#6- Jim McPoland- Pittsburgh, PA	1946
Folder 9	#7- Daniel Irwin- Trafford, PA	1946
	#8- Al Compton- Philadelphia, PA	1946
	#9- John Hewlett- Jersey City, NJ	1946
	#10-Elvina Musgrove- Mansfield, OH	1946
	#11- Joseph Wozniak- Springfield, CT	1946
Folder 10	#12- Joe Binkowski- Sunbury, PA	1946
	#13- Letitia Paroline- Baltimore, MD	1946
	#14- Katherine Brown- Fairmont, WV	1946
	#15- Eddie Avdette- Springfield, MA	1946
	#16- Myrtle P. Laughlin- Sharon, PA	1946
Folder 11	#17-Douglas Leslie- Baltimore, MD	1946
	#18- Phyllis Miller- Fairmont, WV	1946

	#19- Jeffrey Hatton- Lima, OH	1946	
	#20- Joe Sullivan- Philadelphia, PA	1946	
	#21- Clade Hammett- Mansfield, OH	1946	
Folder 12	"Top of the Evening"	1944	
Folder 13	WBZ	1935-1960	
Folder 14	Westinghouse Salute	undated	
Folder 15	World War II	1943-1944	
Folder 16	World War II	1945	
Folder 17	WRS (Philadelphia, PA)	1943	
Folder 18	Receivership Hearing Proceedings	1907-1908	
Box 27			
	Records Management		
Folder 1	Archival Program	1969	
Folder 2	Burham, Donald C. Papers Inventory	c1990	
Folder 3	Central Library	c1920-1949	?
Folder 4	Charlie Ruch collection inventory	undated	
Folder 5	Correspondence	1956-1981	
Folder 6	KDKA	1967	
Folder 7	Information Management Manual	1981	
Folder 8	Inventories	1975-1984	
Folder 9	Library at Orlando, FL	1983	
Folder 10	National Archives Case Files	1973	
Folder 11	Report	1980	
Folder 12	Society of American Archivists Workshop	1981	
Folder 13	State Survey	1985	
Folder 14	Survey	1957	
Folder 15	Westinghouse Broadcasting Co.	1975	
Folder 16	Westinghouse Historical Collection		
	Guide	1982-1984	
Folder 17	Restructuring (acquisitions)	1872-1915	
Folder 18	Restructuring (acquisitions and divestitures)	1982-1995	
Box 28			
	Sales Department		
Folder 1	Appliances	1967	
Folder 2	Appliance and Radio Organization structure	1957	
Folder 3	Appliances, TVs, and Stereos	1955-1962	
Folder 4	Articles	1956	
Folder 5	Aviation Gas Turbine Division	1955	
Folder 6	Corporate Sales Manual	1963-1973	
Folder 7	Engineering Presentation at meeting	1931	
Folder 8	Exhibit Properties Catalog	1948-1956	
Folder 9	Industrial Market Report	1991	
Folder 10	Industry Products	1974	
Folder 11	Limits of Authority Report	1974	
Folder 12	Manuals	1936	
Folder 13	Marketing Communications Directory	1965	

Box 29

Folder 1	Marketing Managers Meeting	1971
Folder 2	Presentation	c1960
Folder 3	Public Systems Memo	1969
Folder 4	Spring Campaign	1939
Folder 5	Telemarketing	c1989
Folder 6	Training Manual	undated
Folder 7	Turbine Generators	c1986
Folder 8	Security Analysts Meeting	1990
	Service Department	
Folder 9	Conservice Maintenance Guides	1943
Folder 10	Powercasting	c1965
Folder 11	Product Services Capabilities	1981
Folder 12	Special Services Division	1966-1976
Folder 13	Supervisor's Handbook (Transportation and Generator Division)	1955
Folder 14	Television-Radio Division History	c1958
Folder 15	Thermo King	c1990
Folder 16	Time Study Man	1952
Folder 17	"Total Quality"	c1988
Folder 18	Urban Systems Development Corporation	1968
	Visual Communications	
Folder 19	Acquisition/Divestiture/Reorganization Script	1986
Folder 20	Booklet	c1980
Folder 21	Genigraphics Slide Guide	c1979
Folder 22	Motion Pictures	undated
Folder 23	"Pittsburgh...Through the Eyes of its Artists" script	1968
	Westinghouse Broadcasting Company	
Folder 24	1952 Election Coverage	1952
Folder 25	"Benny (Goodman) in Brussels"	1958
Folder 26	CBS Partnership and history	1995
Folder 27	National Association of Broadcasters	1969

Box 30

Folder 1	Radio Management Meeting	1960
Folder 2	"These Other Americans"	1963
Folder 3	"Westinghouse Presents"	1961-1962
	Westinghouse Broadcasting Company, Programming Department	
Folder 4	Budget	1955-1963
Folder 5	Correspondence	1957-1959
Folder 6	Correspondence	1960-1961
Folder 7	Correspondence	1962-1963
Folder 8	Westinghouse Canada Limited	1978
Folder 9	Westinghouse Credit Corporation	undated
	Westinghouse Engineer, a study of	

Folder 10	November 1956 readership	1956
Folder 11	May 1965 readership	1965
Folder 12	September 1965 readership	1965
Box 31		
	Westinghouse International	
Folder 1	Annual Report	1944-1946
Folder 2	Annual Report	1947
Folder 3	Annual Report	1948
Folder 4	Annual Report	1949
Folder 5	Annual Report	1950
Folder 6	articles	1972
Folder 7	background information	1987
Folder 8	brochure	1947
Folder 9	China, Report on Electrical Manufacturing Industry Development in	1944
Folder 10	"E" Award (export excellence)	1963
Folder 11	Europe map	1973
Folder 12	European Reports	1941
Box 32		
Folder 1	Manufacturing Capabilities	1978
Folder 2	operations presentation	1946
Folder 3	Philippine Power Program Report	1947-1948
Folder 4	Philippine Power Program group photo album (use copy)	1947
Folder 5	Soviet Government, Power Trains for	1943
Folder 6	Westinghouse Learning Corporation	1971
Folder 7	Westinghouse Magazine correspondence	1943

Series II: Education (1891-1998)

This series has been arranged alphabetically by topical folder headings. The majority of the materials in this series pertain to the continuing education programs and services provided by the Westinghouse Electric Corporation to its employees, but some of the material in this series was produced by Westinghouse for the education and benefit of the public.

The Annual Reports were produced by the Education Department of Westinghouse Electric. The Extension Course materials were used during new employee orientation. The Graduate Lists in this series document the names of graduates from all training programs- from technical to management courses. The Style Guides are materials that were produced by the Company to assist employees with business writing and presentations. The Westinghouse Club/Educational Center was organized in 1904 to "contribute to the social, educational, and physical interests" of all Westinghouse employees. The Westinghouse Technical Night School provided

technical training to anyone who needed "training opportunities." The Scrapbook contained in this series is a collection of news clippings and photographs pertaining to the activities of the Westinghouse apprentices, mostly their sports teams, from 1936 to 1952. A summary of Westinghouse's educational programs can be found in Addendum I on page 119.

Box 33

Folder 1	Accident Safety	1941-1967
Folder 2	Amber Club, Philadelphia (speech)	1914
	Annual Reports	
Folder 3	1945	
Folder 4	1946	
Folder 5	1947	
Folder 6	1948	
Folder 7	1949	
Folder 8	1950	
Folder 9	1951	
Folder 10	1952	
Folder 11	1953	

Box 34

Folder 1	1954
Folder 2	1955
Folder 3	1956
Folder 4	1957

Box 35

Folder 1	1958
Folder 2	1959
Folder 3	1960
Folder 4	1961

Box 36

Folder 1	Apprentice/Hire data	1891-1960
Folder 2	Apprentice School book	1945
Folder 3	Apprentice Scrapbook (original)	1936-1952
Folder 4	Apprentice Scrapbook (use copy)	1936-1952
Folder 5	Apprentice Training data	1959
Folder 6	Apprenticeship Agreement	1906-1907
Folder 7	Carnegie Tech Partnership	1937
Folder 8	Certificates	undated
Folder 9	Course Planning Materials	1903-1920
Folder 10	Discussion Club	1921
Folder 11	Educational Assistance Program	undated
Folder 12	Engineering School Banquet	1924
Folder 13	Extension Course on history of company	c1923
Folder 14	Extension Course on history of company	1925
Folder 15	Extension Course on history of company	1929

Box 37

Folder 1	Extension Course on history of company (c.2)	1929
Folder 2	Farm Youth Activities booklet	undated
Folder 3	George Westinghouse Award in Engineering Education	1947
Folder 4	George Westinghouse Gold Medal	1953
Folder 5	George Westinghouse Scholar "Notes"	c1945
Folder 6	George Westinghouse Scholarships (to Carnegie Institute of Technology Graduate Lists)	c1940-1997
Folder 7	by department	1936-1960
Folder 8	chronologically	1943-1962
Folder 9	chronologically	1969-1978
Folder 10	Graduate Student Course letter	1928
Folder 11	Graduate Student Training Program Application Booklet	c1955
Folder 12	Junior Achiever (Turtle Creek Valley, PA)	1969
Folder 13	Lecture Service "Westinghouse- the Institution"	1922
Folder 14	Management Development Training, "Westinghouse Policy Course"	1960

Box 38

Folder 1	Management Training Course, "Expense and Cost Control"	1948
Folder 2	Office Technology and Information Service (OTIS) Training Course Catalog	1992
Folder 3	Power Use Service Department publications	1949-1952
Folder 4	Programs for Advanced Study	c1960
Folder 5	School Service booklets	1943-1952
Folder 6	School Service and Special Projects Department	c1951
Folder 7	Science Talent Search	1985-1998
	Style Guides	
Folder 8	Duplication	undated
Folder 9	Planning Meetings	1990
Folder 10	Presentations and Proposals	1967-1985
Folder 11	Report Writing	1928
Folder 12	Report Writing	1969-1970
Folder 13	Report Writing	1978-1980
Folder 14	"Technical Training for Engineers" (by B. Lamme)	1916
Folder 15	War Memorial Scholarship	1922-c1927
	Westinghouse Club/Educational Center	
Folder 16	Articles	1910-1911
Folder 17	Dinner Program	1911
Folder 18	Electric Club Journal correspondence	1929
Folder 19	"Essential Qualities and Rewards of Salesmanship" speech	1910
Folder 20	First meeting photograph correspondence	1938

Box 39

Folder 1	Industrial Organization Lectures	1940-1941
Folder 2	Industrial Organization Series	1941-1942
Folder 3	Male Chorus articles	c1939
Folder 4	"The Spirit of the Westinghouse Organization" speech	1926
Folder 5	Symphony Orchestra history	1948
Folder 6	Yearbook	1910-1911
Folder 7	Westinghouse Engineering School for Mechanical And Electrical Engineering Graduates	1929
Folder 8	Westinghouse Family Scholarship	1991
Folder 9	Westinghouse Target Schools list	1990-1991
	Westinghouse Technical Night School	
Folder 10	Alumni Banquet Programs	1954-1964
Folder 11	Commencement Address	1915
Folder 12	Commencement Program	1942
Folder 13	Course Catalog	1951-1952
Folder 14	General Information	1947-c1997
Folder 15	Graduate Rooster	c1947
Folder 16	Register of Engineering Apprentices	1902-1910
Folder 17	Tech Owl Yearbook	1927
Folder 18	Tech Owl Yearbook	1928
Folder 19	Tech Owl Yearbook	1929
Folder 20	Tech Owl Yearbook	1930
Folder 21	Westinghouse Welding School	c1942

Series III: Employees (1885- 2000)

This series is split into two sub-series. The General sub-series contains general information about Westinghouse employees as a group- mainly their benefits, activities, and strikes. It is arranged alphabetically by topical folder headings. It also contains the Industrial Relations Statistic books (1907- 1958) which are yearly reports that were produced by the Industrial Relations department. These reports document and analyze yearly statistics collected by the department about Westinghouse Electric employees. The collected statistics range from age and nationality to home ownership and reason for quitting. (For specific data about the employees of the East Pittsburgh plant, see the Facilities series, Series V.)

The second sub-series contains information about individual employees. These materials are arranged alphabetically by the last name of the employee and grouped into folders. Most of the information about these employees comes from a section of the Research and Development

Center's Technical Bulletin called "Have You Met?" Accordingly, most of the employees listed in this series worked at the Research and Development Center. There are five employees for which more than one folder was required:

Chubb, Lewis W.- Director of the Research and Development Laboratory from 1930-1948. He worked at Westinghouse for 42 years and had 200 patents. He was an engineer who played a significant role in the development of commercial radio. He also won both the Benjamin S. Lamme and John Fritz Medals.

Hutcheson, John A.- Appointed Director of the Research and Development Laboratory in 1949 and Westinghouse Vice President in 1950. He started working at Westinghouse in 1926 and contributed greatly to the establishment of a new Research and Development facility in 1956.

Mechlin, George F.- Vice President of the Research and Development Laboratories from 1973-1987. He was also appointed as a Westinghouse Vice President in 1972. He started work with Westinghouse in 1949 on nuclear and oceanographic projects.

Ruch, Charles- Director of Employee Communications. After his retirement in 1980, Ruch became the volunteer corporate historian. He helped establish the George Westinghouse Museum in Wilmerding, PA and was well known for his characterization of George Westinghouse, Jr. at company events. The majority of his correspondence relates to reference questions he received in his capacity as volunteer historian. A database of this correspondence is available in the library.

Slepian, Joseph- Appointed Associate Director of the Research and Development Laboratory in 1938 and winner of the John Scott, Benjamin S. Lamme, and Edison Medals. He worked at Westinghouse from 1916-1956 and had 204 patents. He was part of the team that worked on the first atomic bomb.

Subseries: General

Box 40

Folder 1	Alexion Alliance Retirees	1993
Folder 2	American Federation of Labor	1903
Folder 3	Annual Picnic	1887
Folder 4	Association of Westinghouse Salaried Employees	1945-1951
	Benefits	
Folder 5	Disability Benefits	1945
Folder 6	Employee Security Program	1959-1966

Folder 7	Health Insurance	1942-1989
Folder 8	Incentive Compensation Plan	1953-1955
Folder 9	Life Insurance	1942-1976
Box 41		
Folder 1	Pension Plans	1929-1979
Folder 2	Relief Department	1915-1945
Folder 3	Salary Key Sheets	1941-1942
Folder 4	Savings and Investment Plans	1967
Folder 5	Unemployment Compensation	1953
Folder 6	W.E.G.A. Beneficial Fund	1965
Folder 7	Bulletin Boards, Kennedy "In Memoriam"	1963
Folder 8	Declaration of Dedication	1976-1996
	Family Day	
Folder 9	Planning Guides	1948-1980
Folder 10	Souvenirs	1950-1976
Folder 11	George Westinghouse Award for Outstanding Engineering Achievement	1984-1985
Folder 12	Housing	1925-c1927
Box 42		
	Industrial Relations	
Folder 1	Statistic Book	1919-1923
Folder 2	Statistic Book	1924-1927
Folder 3	Statistic Book	1928-1935
Folder 4	Statistic Book	1936-1938
Box 43		
Folder 1	Statistic Book	1939-1940
Folder 2	Statistic Book	1941-1942
Folder 3	Statistic Book	1928-1942
Folder 4	Statistic Book	1943-1947
Box 44		
Folder 1	Statistic Book	1948-1952
Folder 2	Statistic Book	1948-1952
Folder 2	Statistic Book	1953-1956
Folder 4	Statistic Book	1957-1959
Folder 5	Lay-offs	1994-1995
Folder 6	Lunch Club	1946
	Military Service	
Folder 7	Draft Correspondence	1950
Folder 8	List of Draft Classes	1941-1965
Folder 9	Service Records Information	c1945
Box 45		
Folder 1	Pamphlets	1942-1944
Folder 2	Veteran's Reinstatement Plan	1944
Folder 3	WW I Service Rolls	c1919
	Order of Merit Award Winners	
Folder 4	undated	

Folder 5	1935-1940	
Folder 6	1942-1952	
Folder 7	1981-1987	
Folder 8	Nomination Essays (A-L)*	1975-1994
Folder 9	Nomination Essays (M-Z)*	1975-1994
*(Addendum III: list of nomination essays, page 123)		

Box 46

Folder 1	Passages (retiree newsletter) correspondence	1990
Folder 2	Pistol Match (interplant)	1950
Folder 3	Retired Employees Association of Florida Yearbook	1993-1994
Folder 4	Retired Employees Dinner	1944
Folder 5	Retiree Correspondence	1985
Folder 6	Safety Regulations books	1934-1942
Folder 7	Salary Administration manual	1952
Folder 8	Service Records, Charts, and Award	1949-c1986
Folder 9	Share Purchase Plan	1948-1957
Folder 10	Roster	1886-1913
Folder 11	Sing-a-long booklets	undated

Box 47

Folder 1	Special News Bulletins from Administration Statistics	1992-1994
Folder 2	1907-1928	
Folder 3	1929-1935	
Folder 4	1936-1939	
Folder 5	1940-1958	
Folder 6	Stock Option Program Strikes	1948-c1995
Folder 7	1914	
Folder 8	1946 (East Pittsburgh)	

Box 48

Folder 1	1947-1954 (Philadelphia, PA)
Folder 2	1951-1954 (East Pittsburgh)
Folder 3	1952-1954 (Nuttall Works, Pittsburgh, PA)
Folder 4	1953-1954 (Beaver, PA)
Folder 5	1953-1954 (Misc. locations)
Folder 6	1953-1954 (Springfield, MA)
Folder 7	1954 (Columbus, OH)
Folder 8	1954 (Elmira, NY)
Folder 9	1954 (Hampton, SC)
Folder 10	1954 (Irwin, PA)
Folder 11	1954 (Kansas City)
Folder 12	1954 (Metuchen, NJ)
Folder 13	1954 (Sharon, PA)
	1955-1956 (East Pittsburgh)
Folder 14	Arbitration and Agreements

Folder 15	Articles	
	Correspondence	
Folder 16	To Communities	
Folder 17	To Employees	
Folder 18	To Union Employees, August-November	
Folder 19	To Union Employees, December-March	
Box 49		
Folder 1	Executive	1955
Folder 2	Executive	1956
Folder 3	IUE Materials	
Folder 4	Westinghouse and IUE Promotional Material	
Folder 5	Timeline	
Folder 6	"Westinghouse News"	
	1962 (East Pittsburgh)	
Folder 7	Articles	
Folder 8	Correspondence and Legal Documents	
Folder 9	Public Statements and Speeches	
Folder 10	Settlement Terms	
Folder 11	1979 (East Pittsburgh- Benefit Improvements)	
Box 50		
Folder 1	Strike Kit	1969
Folder 2	Strike Manual	1969
Folder 3	UE Article	1992
Folder 4	Suggestion Award Dinner	1946
Folder 5	Union Agreements	1948-1973
Folder 6	Union Labor Fact Sheet	1985
Folder 7	University of Pittsburgh ties	undated
Folder 8	United States Expatriate Manual	1975
Folder 9	Veteran Employee Association	1916
Folder 10	Welcome booklet	1957
Folder 11	Westinghouse Credit Corporation	1959
Folder 12	Westinghouse Electric International Company Old Timers list	1994
Folder 13	Westinghouse Football Night	1971
Folder 14	Westinghouse Retirees for Volunteer Action	undated
Folder 15	Westinghouse Song Scores	1939-1985
Folder 16	Westinghouse Workers Defense Committee, 1916	1973
Folder 17	Women's Chorus	1949
Folder 18	Work/Family Task Force	1991

Subseries: Individuals

Box 51

Folder 1	Articles from Westinghouse News	1930
Folder 2	Authors	1911-c1980
Folder 3	business cards	undated
Folder 4	Index to published articles by employees	1954
Folder 5	Officers (partial list)	undated
Folder 6	A-B	1925-1990
	Acker, Frank E.	1985
	Albert, Daniel	1956
	Allen, C.E.	1925
	Alter, Wilhelm	1925
	Anderson, Arthur E.	1959-1973
	Angello, Stephen J.	1966
	Anthony, Charles E.	1981
	Archer, David H.	1967
	Armand, Louis	1957
	Arntzen, Clyde E.	1966
	Aspden, R.G.	1971
	Auxier, Robert W.	1948
	Ayers, David L.	1982-1986
	Bates, Robert C.	1971
	Barpal, Isaac	1988
	Bauer, Jack A.	1978
	Bechtold, James	1955
	Beckfield, J.C.	undated
	Beese, N.C.	1954
	Begley, Robert T.	1975-1981
	Berg, Daniel	1966
	Berkeley, W.H., Jr.	c1958
	Blasier, R.D.	undated
	Blaushild, Ronald M.	1990
	Blazak, Theodore E.	1977
	Bleikamp, Robert P.	1978
	Bober, E.S.	1971
	Brace, Porter H.	1949-1955
	Brandt, Gerry B.	1981
	Bratton, Raymond J.	1976
	Brody, T.P.	1970
	Brown, Jack T.	1968-1984
	Burgman, Hebert A.	1979-1986
	Burnham, D.C.	1964-1971
	Byers, H.D.	1939
	Byrne, F.P.	1971

	Burnham, D.C.	
	Correspondence	
Folder 7	1966-1967	
Folder 8	1968-1973	
Folder 9	Jan-Mar 1974	
Folder 10	June-Aug 1974	
Box 52		
Folder 1	Sept-Nov 1974	
Folder 2	Dec- Jan 1974-1975	
Folder 3	Ca-Chubb	1927-1984
	Castle, Peter M.	1984
	Carlson, Gerald L.	1978
	Carlson, W.G.	1972
	Carr, W.J.	1974
	Chadwick, Roy	1956
	Cheek, Chase	1982
	Chubb, Lewis W.	1927-1952
	Chubb, Lewis W.	
Folder 4	Patent Forms	1913-1915
Folder 5	Patent Forms	1916-1921
Box 53		
Folder 1	Cl-Du	1919-2000
	Clark, Gordon Reynolds	1991
	Clark, William G.	1985
	Coates, William	1979
	Cohen, Paul	1989
	Coltman, John W.	1948-1970
	Compton, Arthur	1919-1931
	Conrad, Frank	1938-2000
	Cookson, Alan	1980
	Cope, H.W.	1929
	Craig, F.E.	1929
	Creech, W.B.	1940
	Croop, E.J.	1975
	Dakin, Thomas W.	1967-1978
	Danforth, Doug D.	c1975-1988
	Davis, Bill	1926
	Davis, H.P.	1990
	Davison, S.M.	1939-1940
	Day, William M.	1979
	DeCubas, J.L.	1971
	Deis, Daniel W.	1987
	Dick, W.A.	1935
	Dodds, Ethan I.	1986
	Dostal, C.A.	1939
	Down, Michael G.	1982

what does
this contain?
why is date so
late?

		Dorman, George	1992
		Duckett, E.J.	1973
Folder 2	E-F		1904-1985
		Edelman, L.E.	1974
		Edison, David M.	1976
		Edison, Gordon E.	c1967
		Elikan, Leonard	1970
		Elsey, Howard M.	1949
		Emmerich, Werner S.	1965-1973
		Engel, Joseph S.	1985
		Eschholz, O.H.	c1930
		Evans, J.M.	1974
		Evans, Marshall K.	1976
		Evans, R.D.	1940
		Fax, David H.	1979
		Feduska, William	1970
		Feichtner, John D.	1981
		Fink, Joel H.	1972
		Fischer, A.H.	1965
		Fischer, E.G.	1974
		Forejt, David A.	1969-1983
		Fox, Donald K.	1975-1983
		Fox, Russel E.	1964
		Frame, C.C.	undated
		Francombe, M.H.	1972
		Freeman, James H.	1969
		Freidel, William	1919
		Frenger, R.F.	1936
		Frenyear, Thomas C.	1904
		Furness, Betty	undated
Folder 3	G-He		1885-1995
		Gabrielse, Steven E.	1977
		Garbuny, M.	1973
		Gainer, G.C.	1974
		Garbuny, M.	1973
		Gaul, Roy D.	1968
		Gaulard, L.	1885
		Gavert, Roy V.	c1975
		Grant, W.W.	1939
		Grekila, Richard B.	1970
		Grove, D.J.	1973
		Gulbransen, Earl A.	1964-1971
		Guy, C.H.	1939-1940
		Gyugyi, Laszlo	1983
		Hagg, Arthur C.	1967
		Hamilton, Donald R.	1968

	Handy, Robert M.	1968
	Hanes, Lewis F.	1977-1985
	Hanna, Clinton R.	1948-1953
	Harder, Edwin L.	undated
	Hare, J.K.B.	undated
	Harper, L.G.	1973
	Harmon, Bill	1933
	Harrison, Donald E.	1969-1984
	Harvey, Francis J.	1995
	Haun, Robert D.	1966
	Heberlein, Joachim V.R.	1982
	Heikes, Robert R.	1964
	Heinricks, Ernest H.	1938-1959
	Hendry, Al J.	c1975
	Heyne, Carl J.	1987
Folder 4	Hi- Hun	1948-1990
	Hickam, William M.	1973-1989
	Higgins, Edward R.	1990
	Hill, Charles F.	1948
	Hirayama, Chikara	1976
	Holdbrook, Ronald G.	1977
	Hollein, David A.	1990
	Holmgren, J.D.	1974
	Homa, Beverly A.	undated
	Hooke, Robert	1966
	Horn, Les	1965
	Horrigan, W.L.	1974
	Hughes, William P.	1970
	Hulm, John K.	1964-1988
	Hummert, George T.	1983
	Humphreville, Thomas N.	1979
	Hundstad, Richard L.	1977
Folder 5	Hutcheson, John A.	1946-1962
	Correspondence	
Folder 6	1944-1947	
Folder 7	1948-1950	
Box 54		
Folder 1	1951-1954	
Folder 2	1955-1957	
Folder 3	1958-1959	
Folder 4	1960	
Folder 5	1961-1962	
Folder 6	I-LaC	1889-1989
	Ivey, Henry F.	1970-1974
	Jeeves, T.A.	1966
	Jones, Andrew R.	1985

	Jones, Clifford K.	1968
	Jones, Frederick M.	undated
	Jones, Kenneth A.	1993
	Jordan, Michael H.	1993-1997
	Keller, Eldon L.	1984
	Kelley, John C.R.	1955-1965
	Kennedy, R.	1889
	Kerr, Walter C.	1910
	Kilderry, Ken W.	1979
	Kinter, Samuel M.	1989
	Kirby, Robert	1975
	Kirschbaum, H.S.	1974
	Klemens, P.G.	1966
	Knox, W.E.	c1962
	Kossowsky, Ram	1980
	Kostallos, J., Jr.	1973
	Kovacik, William P.	1980
	Kramer, Lloyd B.	1965
	Kuno, Ernest L.	c1988
	LaCroix, Robert E.	1976
Box 55		
Folder 1	Lamme, B.S.	1915-1984
Folder 2	LaMo-McV	1938-1993
	LaMont, L.C.	1938-1940
	Lange, William J.	1967
	Lego, Paul E.	1993
	Lessman, Gerold G.	1978-1983
	Liberman, Irvin	1987
	Lindsay, William T.	1966
	Long, Arthur H.	1978
	Longini, Richard	1959
	Longuemare, R. Noel	c1993
	Love, Carl G.	1981
	Lowry, Lewis W.	1979
	Lowy, Robert M.	1971
	Lund, L.H.	c1942
	Malmberg, Paul R.	1978
	Mandel, Alan F.	1987
	Manjoine, M.J.	1974
	Male, Alan T.	1971
	Mason, Ruric C.	1948-1950
	Massaro, Anthony A.	1980
	Mathias, Robert A.	1969-1983
	Mazelsky, Robert	1967-1986
	McGinnis, Jerry	1963
	McNab, Ian R.	1983

	McNall, J.W.	1974
	McVickers, Jack C.	1977
	Mechlin, George F.	
Folder 3	articles and speeches	1978-1982
	correspondence	
Folder 4	1970-1974	
Folder 5	1975	
Folder 6	1976	
Folder 7	1977	
Folder 8	1978	
Box 56		
Folder 1	January-May 1979	
Folder 2	June-December 1979	
Folder 3	January-July 1980	
Folder 4	August-December 1980	
Folder 5	January-May 1981	
Folder 6	June-December 1981	
Folder 7	January-July 1982	
Box 57		
Folder 1	August-December 1982	
Folder 2	January-May 1983	
Folder 3	June-December 1983	
Folder 4	January-June 1984	
Folder 5	July-December 1984	
Folder 6	1985	
Box 58		
Folder 1	1986	
Folder 2	January-May 1987	
Folder 3	Mee-N	1944-1996
	Meess, Jack D.	1967
	Meier, Joseph F.	1984
	Melamed, N.T.	1974
	Melissaratos, Aris	1992-1994
	Merrick, Frank A.	c1944
	Miller, Robert C.	1968
	Moberly, L.E.	1971
	Mole, C. John	1977-1987
	Monteith, Alexander C.	1980
	Moon, David M.	1977
	Moreland, James B.	1976
	Musa, Raymond S.	1970
	Muss, Daniel	1975
	Nadai, Arpad L. (see also Folder 5)	1946-1958
	Nathanson, H.C.	1973

	Nelkin, Arthur	1965
	Nelson, Charles J.	1996
	Neuner, James A.	1986
	Noll, Charles L.	1990
	Northrup, Herb	1988
	Numero, Joseph A.	1991
Folder 4	Nadai, Arpad L. (articles, in German and English)	1911-1945
Folder 5	O-Rot	1925-1996
	Oates, Robert M.	1982
	Obermesser, Clovis F.	1979
	Ockerman, Paul H.	1979
	Olson, Richard D.	1969-1975
	Ostrofsky, Morris	1955
	Page, D.J.	1971
	Palmer, Sidney C.	1954
	Panson, Armand J.	1976
	Pantaleoni, Guido	undated
	Park, George R.	1944
	Parker, James H.	1967
	Patterson, W.H.	1925
	Pauley, Ann	1992
	Pavlik, Norman M.	1983
	Peterson, Rudolph E.	1956-1966
	Phillips, D. Colin	1980
	Pinckard, W.R.	1943
	Pittman, Paul F.	1967
	Poland, Gwen	undated
	Porter, Thomas F.	1977
	Price, Gwilym A.	1946-1952
	Putkovich, Rudy P.	1967
	Reynolds, Fred	1994
	Riedel, E. Paul	1975
	Rigdon, Lawrence D.	1941
	Roberts, Donald R.	1985
	Rogers, Dow A.	1968
	Roidt, R. Michael	1986
	Root, Frank	1949
	Rosa, John	1967
	Rosenberg, Leo	1983-c1985
	Rotelli, David	1996
Box 59		
	Ruch, Charles	
Folder 1	articles	1986-1990
Folder 2	as George Westinghouse, Jr.	1986-1987
	Correspondence (*index available)	
Folder 3	undated	

Folder 4	1962-1979	
Folder 5	1980	
Folder 6	1981	
Folder 7	1982	
Folder 8	1983	
Box 60		
Folder 1	1984	
Folder 2	1985	
Folder 3	1986	
Folder 4	1987	
Box 61		
Folder 1	1988-1	
Folder 2	1988-2	
Folder 3	1989-1	
Folder 4	1989-2	
Folder 5	1990-1	
Box 62		
Folder 1	1990-2	
Folder 2	1991-1	
Folder 3	1991-2	
Box 63		
Folder 1	1992-1	
Folder 2	1992-2	
Folder 3	1993-1	
Folder 4	1993-2	
Box 64		
Folder 1	1994-1	
Folder 2	1994-2	
Folder 3	1995-1	
Folder 4	1995-2	
Folder 5	1996-1	
Box 65		
Folder 1	1996-2	
Folder 2	1997-1	
Folder 3	1997-2	
Folder 4	1998	
Folder 5	Expense Reports	1986-1994
	Notebooks	
Folder 6	1981-1985	
Box 66		
Folder 1	1986-1989	
Folder 2	1989-1993	
Folder 3	Personal Notes	undated
Folder 4	Review copy of <u>Westinghouse</u>	1996
Folder 5	Safety Observer Program	1989
	Thank Yous	

Folder 6	undated	
Folder 7	1985	
Folder 8	1986	
Folder 9	1987	
Folder 10	1988	
Box 67		
Folder 1	1989	
Folder 2	1990	
Folder 3	1991	
Folder 4	1992	
Folder 5	1993	
Folder 6	1994	
Folder 7	1995	
Folder 8	1996	
Folder 9	Rum-Sla	1887-1993
	Rumbels, R.M	1936
	Runk, Robert H.	1967
	Sabol, George P.	1984
	Sadlow, Chester A.	1966
	Sampson, R.N.	1970
	Sands, H.S.	1926
	Saunders, Howard E.	1982
	Saviers, Fred	undated
	Scala, Luciano C.	1978
	Schmid, A.	1887-1889
	Schneeberger, Robert J.	1976
	Schumacher, Bert W.	1976
	Scott, Charles F.	1902-1934
	Scott, Howard	1948
	Sekerka, Robert F.	1968
	Seymour, James O.	1984
	Shallenberger, O.B.	1887
	Shiring family	1990
	Shoupp, William E.	1964-1981
	Silcott, Edward N.	1993
	Skinner, C.E.	c1950-1982
	Slade, Paul G.	1977
	Slepian, Joseph	
Folder 10	Articles	1943-1965
Folder 11	Biographical Information	1910-1956
Folder 12	Correspondence	1914-1965
Box 68		
Folder 1	Edison Medal	1947-1948
Folder 2	Figuring book	1915-1917
Folder 3	Inventor Cards and Patent Forms	1917-1958
Folder 4	List of Research Reports and Patent	

	Suggestions	1952
Folder 5	Notes	1917-1918
Shelf vol. 12	Patent disclosure book	1919
Folder 6	Reports	1918-1919
Folder 7	Slet-Ta	1956-1993
	Sletten, Andreas M.	1967
	Smith, J. David	1978
	Somers, Edward V.	1965
	Spewock, Met	1975
	Stanley, William Jr.	1885-1988
	Stark, Doug D.	c1975
	Steinbruegge, Kenneth	1984
	Stern, Ted	undated
	Stickler, Ronald	1970
	Sucov, E.W.	1972
	Sun, Kuan-Han	1965
	Sutherland, James F.	c1993
	Swiss, Jack	1956-1965
	Szabo, Andrew I.	1979
	Szikai, George C.	1965
	Szymanowski, H.W.	1972
	Taft, Jeffery D.	1985
Folder 8	Taylor, Hobart Jr.	1966-1974
Folder 9	Tesla, Nikola	1889-1996
Box 69		
Folder 1	Th-U	1926-1987
	Thomas, D.E.	1973
	Thomas, Lloyd C.	1926-1928
	Thomas, R. Noel	1982
	Thompson, Francis T.	1966
	Timoshenko, Stephen P.	1974-1986
	Tong, L.S.	1986
	Toulon, Pierre M.G.	1958
	Triezenberg, David M.	1983
	Trosky, William J.	1984
	Tuba, I. Stephen	1969
	Ulrey, Dayton	1987
Folder 2	V-Z	1941-1994
	Vaill, Ronald E.	1985
	Vercellotti, L.C.	1972
	Visser, C. Ken	1975
	Vogl, T.P.	1971
	Wagner, Charles F.	1951
	Walker, Alec H.B.	1965
	Watson, James F.	1992
	Watson, Robert A.	1994

Weaver, James R.	1941
Weaver, L.A.C.	1983
Weiner, George W.	1965-1984
Welchert, Richard M.	1984
Wells, Robert L.	1964
Wells, Joseph M.	1981
Werner, Fredrick E.	1966-1982
Wessel, Edward T.	1976
Westinghouse, Henry Herman	1972
Wexler, Aaron	1956
Whaley, P.V.	1940
Wilcox, George L.	c1975
Wilson, Willett	undated
Witzke, Ray	1976
Wolfe, Peter N.	1966
Wood, Susan	1980-1986
Wright, Dexter V.	1969
Wurts, A.J.	undated
Wutzke, Steven A.	1983
Yensen, Trygve D.	1988
Yeoman, F.A.	1972
Yessel, Charles	undated
Yochum, Leo W.	c1988
Young, William E.	1970
Zener, Clarence	1953-1986
Zervins, A.	1974
Zworykin, V.	1942-1994

Series IV: Exhibitions (1895-1965)

This series is arranged chronologically. It consists of Westinghouse materials from numerous fairs including the World's Fairs of 1939 and 1964-1965, both held in New York. In it are brochures, booklets, articles, and correspondence about the Westinghouse Electric exhibits and buildings. Among many popular Westinghouse attractions at the 1939 World's Fair were the Tower of Light, Elektro the Mechanical Man, and the Time Capsule. Also in 1939, Westinghouse produced a film titled "The Middleton Family at the World's Fair." This full-color, hour long movie was filmed at the Westinghouse building on the grounds of the World's Fair, and depicted the experience of a typical American family at the World's Fair. Among the materials for this event are a script and promotional materials. Advertising posters for the film are stored in oversize drawers.

Box 70

Folder 1	1893, World's Columbian (Chicago, IL)	1934-1993
Folder 2	1895, Cotton States and International (Atlanta, GA)	1895
Folder 3	1895, Cotton States and International, Dixie magazine	1895
Folder 4	1933, Chicago World's Fair	1933
Folder 5	1936, Texas Centennial Central (Dallas, TX)	1937
Folder 6	1939, Golden Gate (San Francisco, CA) 1939, New York World's Fair	1939
Folder 7	1938-1939	
Folder 8	1939-1997	
Folder 9	Middleton Family	1939
Folder 10	operating equipment information	1940
Folder 11	publicity correspondence	1938-1940
Folder 12	time capsule 1964-1965, New York World's Fair	1938-1984
Folder 13	1963-1965	
Folder 14	fact book	1965
Folder 15	Time Capsule Selection Committee Report	1965

Series V: Facilities (1895- 1996)

This series contains both collective and specific information about Westinghouse Electric Corporation manufacturing and service facilities and division headquarters. This series contains information specifically about facilities, not the products produced there. All product information will be found in the Products series (series IX). In addition, information about the Research and Development/ Science and Technology Center has been filed under its own series due to the size and complexity of the materials.

In this series, a few general folders contain comprehensive lists or directories of facilities and contacts within them. Also in this general subseries is the "Special Section" folder which contains small facility-specific booklets that were inserted into the general company employee handbook. They are too numerous for individual folders and therefore have been collected into this one folder.

Materials in the specific facility folders are mostly brochures, directories, and maps. They are arranged alphabetically by geographic location or name of the facility (East Pittsburgh, Gateway, etc.). (In most cases, the name of the facility was its location.) Individual

international facilities are filed by the name of the country in which they operated (such as United Kingdom or China).

There are also oversized maps of the East Pittsburgh facility stored in the oversize drawers.

Box 71

Subseries: General

Folder 1	Booklet	c1901
	Directories	
Folder 2	1931	
Folder 3	1946	
Folder 4	1955-1961	
Folder 5	1978-1991	
	Lists of facilities	
Folder 6	1913	
Folder 7	1940-1948	
Folder 8	"Quick Facts" for individual facilities	1964
Folder 9	"Special Section" for Employee Manuals	undated

Subseries: Specific

Folder 10	Apparatus Service Division Directory (Pittsburgh)	1978
Folder 11	Attica Works (NY)	undated
Folder 12	Baltimore, MD	1948-1954
Folder 13	Beaver, PA (Standard Control Division)	c1952
Folder 14	"Castle" (Headquarters, Wilmerding, PA)	1912-1993
	China	
Folder 15	Product Contract Specifications	undated
Folder 16	Training Program	1981
Folder 17	Collins Avenue (Pittsburgh, PA)	1959
Folder 18	Columbus, OH	1953
	East Pittsburgh	
Folder 19	75 th Anniversary	1970
Folder 20	Articles	1895-1993
Folder 21	brochures	c1956-c1968
Folder 22	Central Library	1940

Box 72

Employee Statistics Datasheets

Folder 1	1921-1926
Folder 2	1927-1933
Folder 3	1933-1940
Folder 4	1941-1946
Folder 5	1947-1952
Folder 6	1953-1956
Folder 7	1956-1958
Folder 8	1959-1960

Box 73

Folder 1	Executive Council Dinner	1929
Folder 2	Facility Information	1926-1987
Folder 3	Feeder Division	1950
Folder 4	Flood Control	1957
	George Westinghouse Bridge	
Folder 5	1930-1933	
Folder 6	1934-1935	
Folder 7	1936-1993	
Folder 8	Dedication Scrapbook	1932
Folder 9	Histories	c1945-1989
Folder 10	Keystone Commons	1989-1996
Folder 11	Large Rotating Apparatus Plant	c1980
Folder 12	Maps	1952-1987
Folder 13	Organizational Chart	1957
Folder 14	UniVac System	1957
Folder 15	East Springfield, MA	c1935-1954
Folder 16	Garrison Place (Pittsburgh, PA)	1990-1994
	Gateway Center (Pittsburgh, PA)	
Folder 17	Art Work	1970-1971
Folder 18	Articles	1967-1998
Folder 19	Design Maintenance	1971
Folder 20	Directory	1980
Folder 21	Directory	1991
Folder 22	Directory	1995
Folder 23	Opening	c1968
Folder 24	Personal Computer Procedures	1989
Folder 25	Hanford (Richland, WA)	undated
Folder 26	Homewood, PA	1926
Folder 27	Indianapolis, IL	1954

Box 74

Folder 1	Lester, PA	c1980-1983
Folder 2	Metuchen, NJ (Radio-Television Division)	c1953
	Newark Works (Newark, NJ)	
Folder 3	budget	1956
Folder 4	correspondence	1954
Folder 5	history	1928
Folder 6	New West Urban Renewal Co. Trial	1996
Folder 7	Nuclear International- Europe	1974-1983
Folder 8	Orlando, FL (Steam Turbine-Generator Division)	undated
Folder 9	Repair Plants	1986
Folder 10	Sandusky, OH (Small Motor Division)	1954
Folder 11	Sharon, PA (Transformer Division)	c1956
Folder 12	South Philadelphia (Tinicom Twp, PA)	c1948
Folder 13	Sunbury, PA (Television-Radio Division)	1952
Folder 14	Sunnyvale, CA (Hendy Iron Works- Marine Div.)	c1950-1995

Folder 15	Trafford, PA (Micarta Division) United Kingdom	1954
Folder 16	London Offices	undated
Folder 17	Metropolitan- Vickers	1919-1994
Folder 18	Ottermill Chilton Electrics (Hungerford)	1973
Folder 19	Trafford Park (Manchester)	undated
Folder 20	Washington, D.C. directories	1970-1971
Folder 21	West Mifflin, PA (Transportation Division)	1971
Folder 22	Westinghouse-Norwalk (Norwalk, NJ)	undated
Folder 23	WINCO (Westinghouse Idaho Nuclear Co, Inc.)	1986-1990

Series VI: George Westinghouse, Jr. (1865-1997)

This series contains biographical information about the founder of the Westinghouse Electric Corporation, George Westinghouse, Jr., and is arranged alphabetically by folder title. Articles about the life of George Westinghouse, Jr. and his contributions to society will be found here as well as a number of short biographies written about him. Information about memorials dedicated to him, awards received, his patents, residences, and descendants will also be found in this series. Of particular interest are two folders of employees' reminiscences of George Westinghouse, Jr. collected in 1935.

Box 75

Folder 1	140 th Birthday speech by D.D. Danforth	1986
Folder 2	150 th Birthday celebration	1996
Folder 3	"About George Westinghouse and the Polyphase Electric Current" by A. Robertson	1943
Folder 4	American Society of Mechanical Engineers Commemoration	1937
Folder 5	"Anecdotes and Reminiscences" by the American Society of Mechanical Engineers	1939
Folder 6	Articles	1905-1929
Folder 7	Articles	1930-1969
Folder 8	Articles	1970-1997
Folder 9	Awards Received	1940-1957

Box 76

Folder 1	Biographical Video Script	undated
Folder 2	Birthplace	1936
Folder 3	Centennial Forum	1946
Folder 4	Centennial, "Scenes from a Great Life" booklet	1946
Folder 5	*Correspondence	c1890-1913
Folder 6	Correspondence about George Westinghouse, Jr.	1914-1997

Folder 7	Descendants	1900-1996
Folder 8	Documentary Materials (1)	c1987
Folder 9	Documentary Materials (2)	c1987
Box 77		
Folder 1	Documentary Materials (3)	c1987
Folder 2	Erskine Park residence (Lenox, MA)	1992
Folder 3	family tree	undated
Folder 4	"George Westinghouse" by Public Relations	c1960
Folder 5	"George Westinghouse, 1846-1914"	1946
Folder 6	George Westinghouse Days Festival (Wilmerding)	1988-1996
Folder 7	"George Westinghouse: His Life and Achievements" by F. Crane	1925
Folder 8	"George Westinghouse: The Man" by C. Horrocks	1914
Folder 9	"George Westinghouse: A Tribute" by A. Warren	undated
Folder 10	Glen Eyre (railcar)	c1992
Folder 11	"History of the Air Brake" by G. Westinghouse, Jr.	1910
Folder 12	McKinley Memorial Bust	1919-1920
Shelf vol. 13	Obituaries	1914
Folder 13	Patents	1865-1918
Folder 14	Patents in Estate (list)	1915
Folder 15	Reminiscences of, Vol. I, A-J (USE COPY)	1935-1936
Folder 16	Reminiscences of, Vol. I (original)	1935-1936
Box 78		
Folder 1	Reminiscences of, Vol. II, K-Z (USE COPY)	1935-1936
Folder 2	Reminiscences of, Vol. II (original)	1935-1936
Folder 3	Reminiscences and Golden Jubilee history project	
	Correspondence	1932-1939
Folder 4	Schenley Park Memorial	c1920-1995
Folder 5	Smithsonian Book of Invention	1978
Folder 6	Speeches by	1903-1911
Folder 7	S.S. George Westinghouse	undated
Folder 8	"The Time Thomas Edison Was Wrong" by T. Phares	1979
Folder 9	Union College, Nott Memorial Exhibit	1996
Folder 10	Washington, D.C. residence	undated
Folder 11	Westinghouse, PA	c1946
Folder 12	"Years of Greatness" by A. Boretz	undated

Series VII: Histories (1902-1989)

This series consists of speeches, articles, and publications written about the Westinghouse Electric Corporation in general. These histories are so general that they do not fit into product, facility, or another series. Many of these materials are of a commemorative nature,

recounting the history of the Corporation and its achievements. Therefore, this series also contains information about the Westinghouse anniversary celebrations. This series is arranged differently from other series in the collection, in that it is arranged chronologically by the date the material was written. This was done in order to aid users who are looking for histories written at a certain chronological time, rather than a specific title of the history. However the title of each history (when available) is listed as the folder heading for reference as well. These titles may also help the user gain a slightly more specific idea about the subject of the material in the folder.

Box 79

Folder 1	Chronologies and Lists of Achievements	1906-1986
Folder 2	Correspondence	1920-1995
Folder 3	General histories (articles and untitled)	1939-1992
Folder 4	Speeches (general and untitled)	c1930
Folder 5	undated- "The Westinghouse Story: The Dreams of a Man"	
Folder 6	c1902- "Westinghouse Electric and Manufacturing Company"	
Folder 7	c1914- "The 1907 Panic" by E.H. Heinrichs	
Folder 8	c1914- "Westinghouse Electric and Manufacturing Company" from <i>Corporate Promotions and Reorganizations</i>	
Folder 9	c1915- "Westinghouse Achievements in the Early Years of its History" by B.G. Lamme	
Folder 10	c1918- "Systems, Methods, Processes, Apparatus, and Schemes in which the Westinghouse Company has led in design or application"	
Folder 11	c1920- Timeline and Reference cards	
Folder 12	c1923- "Brief Account of the Early Days of the Westinghouse Electric and Manufacturing Company"	
Folder 13	1923- "Westinghouse Electric and Manufacturing Company and Subsidiary Companies"	
Folder 14	1923- "Westinghouse: the Organization"	

Box 80

Folder 1	1924- "Early Days in the Westinghouse Shops" by Charles F. Scott	
Folder 2	1924- "Forty Years Ago"	
Folder 3	1924- "The Westinghouse Electric and Manufacturing Company: Its Engineering and its Engineers" by C.F. Skinner	
Folder 4	1925- "Brief Account of the Early Days of the Westinghouse Electric and Manufacturing Company"	
Folder 5	1925- "Historic Highlights in the Development of the Electrical Industry"	
Folder 6	c1925- "The Westinghouse Electric and Manufacturing Company"	
Folder 7	1927- "Achievements of the Westinghouse Electric and Manufacturing Company in the Electric Power Industry"	

Folder 8	c1927-	"Westinghouse Achievements"
Folder 9	1927-	"Influence of Electricity on District"
Folder 10	1929-	"Early History of the Westinghouse Electric and Manufacturing Company"
Folder 11	1929-	"Westinghouse Electric and Manufacturing Company, History of"
Folder 12	c1930-	"Westinghouse, Pioneer" script
Folder 13	1931-	"Part of Westinghouse in Modern Engineering"
Folder 14	1931-	"Some Recollections of Half a Century" by E.S. McClelland, Sr.
Folder 15	1931-	"Ten Years with Westinghouse Electric and Manufacturing Company"
Folder 16	1931-	"Westinghouse- Two Generations of Progress"
Folder 17	1933-	Westinghouse Engineering Developments in 1932
Folder 18	1936-	"Adventures in Power"
Folder 19	1936-	"Calling the Roll of Fifty Years"
Folder 20	1936-	"Fifty Years in Electric Power Generation"
Folder 21	1936-	"Fifty Years of Westinghouse Research"
Folder 22	1936-	"The First Fifty Years"
Box 81		
Folder 1	1936-	Golden Jubilee Program
Folder 2	1936-	"A Half Century of Engineering Progress" (<i>Electric Journal</i> article)
Folder 3	c1936-	"My Visit to the Westinghouse Plant"
Folder 4	1936-	Notes on Fifty Years of Industrial Relations
Folder 5	1936-	"The Spirit of Westinghouse" (play by Boston Sales Office)
Folder 6	1936-	"Westinghouse Celebrates First 50 Years"
Folder 7	1936-	"Westinghouse: Past, Present and Future"
Folder 8	1937-	<i>Mechanical Engineering</i> article (untitled)
Folder 9	1938-	"The Story of Nine Years"
Folder 10	1938-	Untitled
Folder 11	1939-	"These Ten Years"
Folder 12	c1940-	"Memories of the Research Lab" by H.H. Galleher
Folder 13	1946-	"Pittsburgh Section"
Folder 14	1950-	"Through the Years with Westinghouse"
Folder 15	1951-1954,	"Atoms to Zirconium"
Folder 16	1952-	"This is Your Company"
Folder 17	1953-	"Fifty Years of Progress with Canada, 1903-1953"
Folder 18	1953-	"George Started Something"
Folder 19	1954-	"Notes on the History of Engineering Journalism at Westinghouse"
Folder 20	1961-	75 th Anniversary Newsletter
Folder 21	1961-	"Seventy-fifth Anniversary Program"
Folder 22	1969-	Untitled
Folder 23	1971-	"The Westinghouse Story"
Folder 24	1976-	90 th Anniversary Celebration
Folder 25	c1976-	"Westinghouse Electric Corporation"

Folder 26	1976-	Westinghouse News Anniversary Issue
Box 82		
Folder 1	1985-	"Organizational Evolution of Westinghouse"
Folder 2	1985-	"Westinghouse Electric Corporation"
Folder 3	1986-	Centennial Awards
Folder 4	1986-	Westinghouse Centennial Celebration
Folder 5	1986-	Westinghouse Centennial Review notes
Folder 6	1989-	"Historic Pittsburgh 1886"
Folder 7	1989-	"Westinghouse Electric Corporation" from <i>International Directory of Company Histories</i>

Series VIII: Press Releases (1929-1988)

This series consists of official press releases made by the Westinghouse Electric Corporation about a wide range of topics including their products, employees, facilities, and research. They are arranged chronologically. Photographs were attached to many of these press releases, but for preservation reasons the photographs have been separated from the document and cataloged separately. Photographs can be identified through the PR number listed at the end of each press release document. Included in this series is also a card catalog index of press releases from 1955-1975 that provides the topic, date, and corresponding photographs for each press release.

Box 82		
Folder 8	Index	1930-1955
Folder 9	Photograph Captions	undated
Folder 10	Undated	
Folder 11	1929	
Folder 12	1932	
Folder 13	1936	
Folder 14	1938-1939	
Box 83		
Folder 1	1940-1945	
Folder 2	1946-1948	
Folder 3	1950-1952	
Folder 4	1953-1955	
Folder 5	1955-1956 (strikes)	
Folder 6	1956-1957	
Folder 7	1958	
Folder 8	1959	
Folder 9	1960	
Folder 10	1961	

Box 83A

Index for 1955-1975

Box 84

Folder 1	1962-1963
Folder 2	1964
Folder 3	1965
Folder 4	1966
Folder 5	1967
Folder 6	1968
Folder 7	1969

Box 85

Folder 1	1970
Folder 2	1971(1)
Folder 3	1971(2)
Folder 4	1972
Folder 5	1973
Folder 6	1974
Folder 7	1975
Folder 8	1976
Folder 9	1977
Folder 10	1982
Folder 11	1985-1986
Folder 12	1988

Series IX: Products (1886-1997)

This series contains information about products manufactured by Westinghouse Electric. Information regarding plants that manufactured specific products will not be found here, but in the Facilities series.

This series is divided into two subseries: General and Specific. This was necessary because some of the materials in this series are bound catalogs that contain information about many different products and therefore could not be placed into one product group. The General subseries contains these bound *catalogs* that include everything that Westinghouse Electric manufactured- from motors to light bulbs and appliances. The 1892 catalogs are narrative in style, with few images of the products, while the 1893 catalog consists of product photographs only. Customers would then request more information about a product from the Company. The 1920 general catalog is the first to combine narrative and image as well as list the price of the products.

Also in the General subseries are other manuals that cover a broad range of products. The *General Order Manual* outlines the proper procedures that employees should use when submitting a purchase order and when dealing with a government contract, in particular with the War Department. The *Power Department Technical Data* book contains technical data about machines produced by the Power Department- generators, turbines, reduction gears, air ejectors, and condensers. The *Resale Commercial Data* books were produced to ensure company-wide knowledge of contracts with appliance and machinery manufacturers that used Westinghouse Electric products in their appliances and machines. Knowledge of these contracts would then improve the technical support services that Westinghouse provided to these companies, and also help Westinghouse pinpoint fundamental problems with their products. Lastly, the *Stock Identification Record* contains information on every product Westinghouse Electric produced. It contains a short description of the product, its identification number, and its schedule number.

Subseries: General

Box 86

Folder 1	Aesthetic Design	1930
Folder 2	"Electricity for Machine Driving"	1898
Folder 3	Engineers Technical Book	1910
Folder 4	Erecting Engineering Data	c1907
Folder 5	Factory Testing	1917-1928
Shelf vol. 14	Fields book #1 (first machines produced and ordered)	c1889
	General Catalogs	
Folder 6	1888 (copy)	
Folder 7	1892	
Folder 8	1892 (c.2)	
Folder 9	1893	

Box 87

Folder 1	1920
Folder 2	1921-1922
Folder 3	1921-1922 (c.2)
Folder 4	1923-1924
Folder 5	1925-1927
Folder 6	1928-1930

Box 88

Folder 1	1931-1932	
Folder 2	1931-1932 (c.2)	
Folder 3	1939-1940	
Folder 4	1939-1940 (c.2)	
Folder 5	General Order Manual	1945

Folder 6	Price List	1889
Folder 7	Resale Commercial Data (Appliance Manufacturers)	1925-c1926
Folder 8	Resale Commercial Data (Machinery Manufacturers)	c1926
Box 89		
Shelf vol. 15	Samples and Testing record book	1898
Folder 1	Stock Identification Record	1929
Folder 2	Testing	1942
Box 90		
Folder 1	Wholesale Electrical Apparatus catalog	1941

Subseries: Specific

This sub-series contains catalogs, advertisements, brochures, articles, and correspondence about specific Westinghouse products. In most cases, this subseries is arranged alphabetically by topical folder headings. Further notes about specific arrangements and products will be listed under the name of the product group.

Box 90

	Alternating Current	
Folder 2	AIEE article abstract	1895
Folder 3	"Alternating Current Development in America" by William Stanely	1912
Folder 4	American Organization of the Manufacture Of Alternating-Current Apparatus	undated
Folder 5	Anniversary Materials	1911-1958
Folder 6	articles	1887-1949
Folder 7	articles	1950-1998
Folder 8	articles about safety of AC	1889-1890
Folder 9	autovalve arrester	undated
Folder 10	"The Beginning of Electric Power"	undated

Box 91

Folder 1	Black Canyon Hydroelectric Project 50 th Anniversary (PBS documentary)	1985
Folder 2	"The Coming of Alternating Current" (by B.G. Lamme)	c1910
Folder 3	"Contributions of Westinghouse to the Alternating Current System"	1929
Folder 4	correspondence	1936-1942
Folder 5	Electric Chair articles	1889-1990
Folder 6	Electric Duel article	1889
Folder 7	Great Barrington, MA test	1886
Folder 8	IEEE and Surge Protection ('Lightning Arresters')	1941-1950
Folder 9	instruments	1933-1934
Folder 10	frequency standardization	1997

Folder 11	fuse blocks	1900-1904
Folder 12	legal aspects	1886-1889
Folder 13	long distance transmission correspondence	1905
Folder 14	meters	1905-1976
Folder 15	"Merchandising the Kilowatt"	1929
Folder 16	New York, New Haven, and Hartford Railroad electrification	1982
Folder 17	Niagara Falls Power Station	1886-1982
Box 92		
Folder 1	Ottawa, Canada	1937
Folder 2	Polyphase System installation list	1898
Folder 3	Pomona Water Power Plant	1955
Folder 4	Rectifiers (Ignitron)	undated
Folder 5	Sales book entries	1890-1891
Folder 6	Surge Testing	1947
Folder 7	Telluride, CO transmission, 1890	1957-1991
Folder 8	"Westinghouse Alternating of Electrical Lighting" article	1887
Folder 9	"Westinghouse Contributions to the Alternating Current"	1934-1949
Appliances		
Folder 10	Air Conditioners	1938-1975
	Catalogs	
Folder 11	1966	
Folder 12	1970	
Folder 13	1971	
Box 93		
Folder 1	1974	
Folder 2	Clothes Washer and Dryer	c1950-1988
Folder 3	Coca-Cola coolers	1936
Folder 4	Coffeemaker	c1950
Folder 5	commercial	1933-1934
Folder 6	Dishwasher	1966
Folder 7	"Electric Home of Tomorrow"	1936
Folder 8	Electric Knife	undated
Folder 9	Fan catalogs	1909-1969
Folder 10	Fan instructions	1909-1940
Folder 11	Food Mixer	1953
Folder 12	Freezer	1947-1952
Folder 13	Heating	1919-1957
Folder 14	history (of appliance engineering)	1984
Box 94		
Folder 1	Irons	1919-c1930
Folder 2	Kitchen Colors	c1960
Folder 3	Kitchen Planning	1949
Folder 4	Luminous Radiator	1914

Folder 5	Range	1919-1966
Folder 6	Refrigerator	c1930-1974
Folder 7	Renewal Parts	1931
Folder 8	Sewing Machine	1917-c1926
Folder 9	Skillet	undated
Folder 10	Speed Cooker	1951
Folder 11	Stereo	1961-1971
Folder 12	Stratovision (television broadcast)	1965-1966
Box 95		
Folder 1	Television	1927-1989
Folder 2	Television, F.C.C. reports	1950
Folder 3	Toasters	undated
Folder 4	Vacuum Cleaner	undated
Folder 5	Waffle Iron	1985
Folder 6	Water Cooler	1934
Folder 7	White-Westinghouse Catalog	c1980

Automobile

These folders contain articles about a Westinghouse automobile manufactured in LeHavre, France around 1902-1907 and about a vertical parking machine made by Westinghouse in 1931. The third folder contains a report on how the Company can enter the automotive electric component industry.

Folder 8	articles	1954-c1980
Folder 9	vertical parking machine, 1931	1988
Folder 10	"Westinghouse and the Automotive Industry"	c1953

Bryant (Division of Westinghouse)

Folder 11	Circuit Protection Products	1974
Folder 12	Wiring Products	1973-1976

Control Systems

These products were automatic control systems for machinery. They include equipment such as relays, trouble shooting devices, limit switches, starters, and breakers. One oversized 'Numerical Control System' catalog from 1968 in oversize drawer. See also: Motor and Control Price books in Motor group.

Folder 13	CAM Controllers	1929-1940
Folder 14	Catalog	1975

Folder 15	Control Development Report	1925-1926
Folder 16	"Control Engineering, Drum Controller Data, Wiring Diagrams"	1929
Box 95A		
Folder 1	Control Engineering Hand Book (pages 2000-11100)	1929
Box 96		
Folder 1	"The Development of the Switchboard" By B.P. Rowe	undated
Folder 2	Electro/Center system	1973
Folder 3	Interposing Logic System	1976
Folder 4	Klydongraph	undated
Folder 5	Mini-Master Station	1976
Folder 6	Miscellaneous	1972-1983
Folder 7	Numa-Logic	1975
Folder 8	Sensor and Control Capabilities	c1970
Folder 9	Spencer disk thermostat	1943
Folder 10	Total Service	c1970
Folder 11	Veritrak 75	undated

Electric Railway Equipment

This grouping contains information about both passenger and freight electric locomotives and equipment. The Foreign folder includes information about British and German Westinghouse equipment, as well as Swiss and French railway products. The French booklet is written in French.

There are also many publications in this grouping. Publications about general railroad electrification (effects, equipment, and problems) have been separated from the collection and given to the library. Where duplicates of these books exist, the duplicate has been kept in the archival collection, along with the other publications that deal solely and specifically with Westinghouse Electric products. They are listed alphabetically by their titles, which are written with quotation marks.

For more information about locomotive engines, see Engines, Generators, and Motors groups.

Folder 12	50-Ton Locomotive	1924
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Folder 13	"50 Years of Westinghouse in Transit Development"	1936
Folder 14	"The ABC of the Electric Car"	1925
Folder 15	advertisements	1920-1940
Folder 16	"All in a Days Work"	1930
Folder 17	American Electric Railway Association Conference Exhibit	1913-1930
Folder 18	American Transit Association Convention	undated
Folder 19	Armatures	1900-1903
Folder 20	articles	1902-1987
Folder 21	Baldwin-Westinghouse Locomotives	1903-1915
Box 97		
Folder 1	Baldwin-Westinghouse Locomotives	1920-1931
Folder 2	"Brief Outline of the Development and Progress of the Electric Railway Industry"	1923
Folder 3	"Cars and Car Equipment"	1920
Folder 4	"Cars and Car Equipment"	1927-1930
	Catalogs	
Folder 5	1983	
Folder 6	1894-1896	
Folder 7	1917-1929	
Folder 8	Catenary Lines	1905-1908
Box 98		
Folder 1	Circuit Breakers	1902-1904
Folder 2	"The Cleveland Railway"	1924
Folder 3	Controller parts and price list	1921-1928
Folder 4	Controls	1896-1939
Folder 5	Correspondence	1912-1916
Folder 6	Cos Cob Power Plant	1993
Folder 7	"The Development of the Electric Locomotive"	1924
Folder 8	Diesel Electric Locomotives	undated
Folder 9	Diversers	1900-1902
Folder 10	"Economies in Railway Operation"	1912
Folder 11	"Eighty Rapid Transit Years"	undated
Folder 12	Electric Locomotive Data	1912-1926
Folder 13	"Electric Mine Locomotives and Motors"	1899
Folder 14	"Electric Railway Apparatus"	1893
Folder 15	"Electric Railway Equipment"	1929
Folder 16	"Electric Railway Power Apparatus"	1914
Folder 17	"Electric Street Car Equipment"	1896
Box 99		
Folder 1	"Electric Street Railway Motor"	1890
Folder 2	Electrification Data	1916
Folder 3	Electrification of Railroad as a war measure	1918

Folder 4	firsts	1946
Folder 5	Foreign (articles and equipment)	1906-c1983
Folder 6	Fuse Blocks	1902-1904
Folder 7	Generators	1895
Folder 8	Images	c1900
Folder 9	"Low Voltage Trolley Line Material"	1906-1907
Folder 10	Metromover	1986
Folder 11	Mine Trolleys	1941
Folder 12	motors	1916
Folder 13	"Multiple Unit Trains and HL Control"	1912
Folder 14	"Operating Results with PCC Cars"	1939
Folder 15	Parts	1907
Folder 16	"Progress in Electric Railway Transportation"	1927
Folder 17	"Railroads Make and Maintain Business" advertisements	1926
Folder 18	"Railway Equipment"	1910
Folder 19	Recent Improvements in Railway Apparatus	1911
Folder 20	Renewal Part Sales	1929-1932
Folder 21	Round House Turntable	1898
Folder 22	"The Safety Car"	1920
Box 100		
Folder 1	Single-Phase System	1904-1929
Folder 2	"Steam Railroad Electrification"	1906
Folder 3	Substation Equipment	1914-1923
Folder 4	"Testimonials Regarding Railway Apparatus"	1893
Folder 5	"Unit Switch Control Apparatus"	1912
Folder 6	"The Westinghouse Companies in the Railway and Industrial Fields"	1905
Folder 7	"Westinghouse Transit Expressway, South Park"	1966
Folder 8	WN Reduction Drive	1930-1933
Electric Vehicles		
Folder 9	articles	1976-1992
Folder 10	Catalogs	c1910
Folder 11	Coach	1925-1929
Folder 12	Correspondence	1939-1987
Folder 13	Golf Car	1973-1987
Folder 14	International Electric Vehicle Symposium	1969
Folder 15	Lotus	1964
Folder 16	Markette I and II	1967-1977
Engines		
Folder 17	articles	1903-c1940
Folder 18	correspondence	1928

Box 101

	Gas	
Folder 1		1899
Folder 2		1901-1904
Folder 3		1906-1911
Folder 4		1915
	Steam	
Folder 5		undated
Folder 6		1888
Folder 7		1890
Folder 8		1891
Folder 9		1893-1895
Folder 10		1899-1901
Folder 11		1902-1904

Box 102

Folder 1		1905-1906
Folder 2	Traction	1970

Generators

See also: Motors

Folder 3	A/C technical data	1920-1934
Folder 4	Conference with the Association of Edison Illuminating Companies	1954
Folder 5	Converters	1904-1911
Folder 6	Course (for Engineers' Club)	1972
Folder 7	Field Engineer notebooks	1913-1915
Folder 8	History (by B.G. Lamme)	c1913
Folder 9	Illinois Public Utilities	1941
Folder 10	Inner-cooled	1951-1988
Folder 11	Instruction books	1943-1945
Folder 12	Karlovitz- Halasz	1946

Box 103

Folder 1	Meeting minutes and reports	1950-1954
Folder 2	Milwaukee Harvester Co.	1896
Folder 3	Motor Generators	1921
Folder 4	Oklahoma Gas and Electric Co.	1968
Folder 5	Rotor Video script (for training in China)	1985
Folder 6	Tesla Polyphase System	c1900
Folder 7	Vertical (for waterwheel drives)	1918
Folder 8	Water	undated

Industrial Machines and Tools

Folder 9	AC Form Wound Machines	1974
Folder 10	articles	1911
Folder 11	Catalog	1946-1954

Folder 12	Construction Industry	c1980
Folder 13	DC Machines	1974
Folder 14	Drives	1904-1977
Box 104		
Folder 1	"Electricity in the Steel Industry"	1918
Folder 2	Fans	1921-1926
Folder 3	Firth-Stirling Co. (Demmler, PA)	1907
Folder 4	Forums and Speeches	1902-1941
Folder 5	Gear Motors	c1938-1960
Folder 6	Heating Equipment	1934-c1980
Folder 7	Homestead Steel Works	c1926
Folder 8	Induction Heating	1977
Folder 9	Inspection forms	undated
Folder 10	Limit Switches	1933-1937
Folder 11	Machine images	undated
Folder 12	Motors and Controllers	1907-1979
Folder 13	Painting Manual	1944
Folder 14	Petroleum Industry	c1980
Folder 15	"Power for Steel"	1944-1952
Folder 16	Pulp and Paper Industry	c1980
Box 105		
Folder 1	Steel Mills	1910-c1980
Folder 2	Textile Mills	1910
Folder 3	Thyristor Power Supplies	1976
Folder 4	Tool Stencils	1939
Folder 5	Unimation Robotic Systems	undated
Folder 6	US Steel	1959
Folder 7	Welding Electrodes	1976
Folder 8	Welding protection	undated
Lighting		
Folder 9	Arc lighting	undated
Folder 10	Atlantic City Auditorium and Convention Hall	1929
Folder 11	Commercial	1933-1934
Folder 12	Correspondence and articles	1974
Folder 13	Fluorescent	1940-1973
Folder 14	Lamp Division Fact Book	1981
Folder 15	Nernst Lamp	1901-1983
Folder 16	Planning and information booklets	1904-1958
Folder 17	Rectigon	1934
Folder 18	Sawyer-Man Lamps	1878-1904
Folder 19	Stopper-Lamp	undated
Folder 20	Street	1904-1922
Folder 21	Tungsten Lamps	1909
Folder 22	Westinghouse Lighting Institute (New York)	undated

Motors

The material on motors is arranged by type of motor. In addition, the Motor and Control Price books are product catalogs for all motors within a specific industry. See also: Generators and Control Systems groups.

Box 106

Folder 1	AC and DC (general)	1900-1981
Folder 2	Armatures	1943
Folder 3	Circuit Protection	1975
Folder 4	Drive Systems	1979
Folder 5	Efficiency	1977
Folder 6	Fractional- Horsepower	undated
Folder 7	Gearmotors and Speed Reducers	1934
Folder 8	Induction	1921
Folder 9	Industrial	1936-1976
Folder 10	Integral Horsepower	1974
Folder 11	Offshore Applications	undated
Folder 12	Punch Press	1928
Folder 13	Rayon Spinning	1949
Folder 14	Single Phase	1929
Folder 15	Starters	1971-1974
Folder 16	Synchronous	1942-c1980
Folder 17	Synchronous Condensers	1958
Folder 18	Two-Speed	1979
Folder 19	V-Belts	1933

Box 107

Motors (cont.)

Motor and Control Price Book (general)

Folder 1	1923
Folder 2	1924
Folder 3	1925
Folder 4	1923-1931

Box 108

Folder 1	Homewood Works	1929
Folder 2	Homewood Works	1929-1932
Folder 3	Machinery Manufacturers	1922-1926
Folder 4	Machinery Manufacturers (c.2)	1922-1926
Folder 5	Manufacturers/AC only	1923-1926
Folder 6	Metal and Woodworking	1922-1925

Box 109

Folder 1	Metal and Woodworking (c.2)	1922-1925
Folder 2	Pumps and Compressors	1922-1926

Box 110

Nuclear Power

*See also: R&D/S&T- Materials Science (Series 13)

Folder 1	Atom Smasher	1941
Folder 2	Bettis Medallion Award	1957
Folder 3	BR-3 Reactor	undated
Folder 4	Clinch River Breeder Reactor Project (Oak Ridge, TN)	1974
Folder 5	Clinch River Breeder Reactor Plant report	1974
Folder 6	D-Loop Testing	1985
Folder 7	Enterprise (marine)	1960
Folder 8	Floating power plants	1973
Folder 9	Florida Power & Light Co., Turkey Point Power Plant	1983
Folder 10	General articles	1943-1996
Folder 11	"Is the Challenge Gone?" by Charles Weaver	1966
Folder 12	Liquid Metal Fast Breeder Reactor	c1974
Folder 13	Long Beach Cruiser Ship	1959
Folder 14	Nautilus	1954-1961
Folder 15	NERVA (Nuclear Propulsion for Space)	c1970
Folder 16	Nuclear power plant sales	1959
Folder 17	Operation Crossroads (atomic bomb test)	1946
Folder 18	Pressurized Water Reactor Plants	1954-1986
Folder 19	Recycle Fuels Plant (Anderson, SC)	c1974
Folder 20	Safety	1973-1974
Folder 21	Savannah River Plant	undated

Box 111

Folder 1	Shippingport Atomic Power Station	c1957
Folder 2	Shippingport Atomic Power Station	1960
Folder 3	Shippingport publicity book	1957
Folder 4	Speech	1976
Folder 5	USS Skate	1957
Folder 6	Washington State (Hanford, WA)	undated
Folder 7	Wyoming Mineral Corporation (Bruni, TX plant)	1975
Folder 8	Yankee Atomic Electric Plant (MA)	c1958
Folder 9	Zirconium	1953

Petroleum

Folder 10	Advertising pamphlets	c1920
Folder 11	Articles	1926-1943
Folder 12	Handbooks	1928
Folder 13	Memo	1938
Folder 14	Product booklets	1938-c1970

Radio

These materials pertain only to radio equipment manufactured by Westinghouse Electric. For information about radio broadcasting, please see the Administrative series (series 1)- Radio Broadcasting.

Folder 15	Articles	1921-1990
Folder 16	General equipment	undated
Folder 17	HAM radio publications	undated
Folder 18	Oscillators	c1930-1944
Folder 19	Police equipment	1934
Folder 20	Railroad equipment	1946
Folder 21	Receivers	1919-1971
Box 112		
Folder 1	Transmitters	1940-1946

Rural Electrification

This grouping contains information regarding Westinghouse Electric's involvement in bringing electricity to rural areas of the country. The materials range from product information about specially designed 'farm motors' to promotional materials designed to provide information about electricity and its uses to rural residents. In addition, Westinghouse and the 4-H Club partnered to educate children about electricity through the "National Rural Electricity Program," providing play scripts, contests, and after school clubs. There are also oversize promotional and educational posters for this grouping stored in the oversize drawers.

Folder 2	4-H Electric Program	1936-1959
Folder 3	Advertisements	1919-1944
Folder 4	Appliances and Equipment	1940-1952
Folder 5	Articles	1925-1952
Folder 6	Automatic Electric Service Plant Instruction Book (B-2)	undated
Folder 7	Automatic Electric Service Plant Instruction Book (E-35, E-36, E-38)	undated
Folder 8	Catalogs	1925-1941
Folder 9	Correspondence	1930-1941
Folder 10	Dealer and Sales information	1926-1940
Folder 11	Light and Power Plant Instruction Book E-30	1922-1923

Box 113

Folder 1	E-60	c1925
Folder 2	E-63	c1925
Folder 3	E-66	c1925
Folder 4	E-83	undated
Folder 5	E-86	undated
Folder 6	E-88	undated
Folder 7	Lighting	1947-1951
Folder 8	Market Analysis	1930
Folder 9	Motors	1939-1949
Folder 10	Power Plants	1888-1938
Folder 11	Power Plant Lubrication Manuals	undated
Folder 12	Promotional Materials	undated
Folder 13	Promotional Materials	1927-1947
Folder 14	Renewal Parts	1926-1933
Folder 15	Rural Electrification Series	1942-1943
Folder 16	Service Manuals	1928-1934
Folder 17	Transformers and Transmission Lines	1920-1938
Folder 18	"Westinghouse Pictorial Farm Light Show"	c1930

Switchgears and Circuit Breakers

See also: Motor and Control books.

In addition to the material here, there are graphs and blueprints for dead front, submersible, weather-proof, and dust-tight circuit breakers from 1949 in oversize drawers. Also photographs of circuit calibration from 1948 (#55173, #55300, #56567).

Box 114

Folder 1	Articles and Correspondence	1918-1958
Folder 2	Bushing Tester	1935
Folder 3	Catalog	1939
Folder 4	Circuit Beakers	1933-1960
Folder 5	Circuit Breaker Data and Notes	1927-1947
Folder 6	Circuit Breaker Testing Laboratory	1926-1935
Folder 7	De-Ion Circuit Breaker	1929-1973
Folder 8	De-Ion Circuit Breaker instructions	1933-1954
Folder 9	Feeder-Voltage Regulators	1933-1934
Folder 10	Lightning Arresters	1923-1930
Folder 11	Lightning Arresters	1959

Box 115

Folder 1	IEEE and Surge Protection (Lightning Arrester)	1951-1958
Folder 2	Linestarters	undated
Folder 3	Metal-Clad	1933-c1960

Folder 4	Network Calculator	1930-1941
Folder 5	NOFUSE	1933
Folder 6	Oil Circuit Breakers	1908-1948
Folder 7	Panelboards	1926-1941
Folder 8	Rectifiers	c1934
Folder 9	Relays	1934
Folder 10	SF6 Circuit Breaker	1961-1970
Folder 11	Switchgear Data book	1929-1930
Folder 12	Switchgear Data book	1934
Folder 13	Switchgears	1949-1968
Folder 14	Symposium on High and Extra High Voltage Apparatus Utilizing SF6 (Russia)	1975

Transformers

Oversize 1954 blueprint stored in oversize drawers.

Box 116

Folder 1	Articles	1887-1965
Folder 2	Correspondence	1928-1935
Folder 3	Distribution Transformers	1933-1934
Folder 4	Enclosed	1949-1971
Folder 5	Miscellaneous	1925-1934
Folder 6	Service Center	undated
Folder 7	South Kensington Museum	1932

Turbines

This group contains many oversized blueprints stored in the oversized drawers. The Department of Defense Unit folder contains information about the subcontracted steam turbine generator unit that Westinghouse manufactured for the DOD at the South Philadelphia Works.

Folder 8	Coils	undated
Folder 9	Department of Defense Unit	undated
Folder 10	Gas	1944-1949
Folder 11	Hydrogen-cooled	1955-1965
Folder 12	Marine Steam Turbine	c1910-1912
Folder 13	PACE combined powerplant	undated
Folder 14	Patents	1945
Folder 15	Product Problems	1948-1950

Box 117

Folder 1	Steam	1900-1972
Folder 2	Steam Service Data	1936-1947

Folder 3	Steam Service Data	1961
Folder 4	Turbine-Generators	1929-1975

Miscellaneous

Due to the diversification of a corporation like Westinghouse, some products do not fall into the groupings established above. The information on the products listed below consist mostly of single advertisements or brochures. Oversize drawers contain information on welding symbols from 1940 and a brochure on electronic tubes that is undated.

Box 118

Folder 1	Architectural Systems Department	c1970
Folder 2	Automatic Material Handling System	1972
Folder 3	Barcodes	1991
Folder 4	Batteries	1977
Folder 5	Battleship shock tester	1997
Folder 6	boiler	undated
Folder 7	brushes	1929-1933
Folder 8	Bus System (vertical)	1976
Folder 9	Capacitors	1933-1934
Folder 10	Cylsonic Cleaning Unit	1974
Folder 11	Dome to Three Rivers Stadium	c1977
Folder 12	Electronics	1963
Folder 13	Elevators	1944-1952
Folder 14	Fire Engine (gasoline)	1954
Folder 15	Greenhouse (portable)	c1960
Folder 16	Hospital Isolation System	1974
Folder 17	Infra-Scan (Thermographic Inspection)	1976
Folder 18	Insulation System	c1975
Folder 19	J34 engine	1950-1995
Folder 20	Jumping disk	undated
Folder 21	Magnet Wire	undated
Folder 22	Marine catalog	1925
Folder 23	Melmac dinnerware	1960
Folder 24	Micarta Copper-clad Materials	1913-c1977
Folder 25	Missile (Polaris)	1961
Folder 26	Nameplates ("Westinghouse")	1947-1964
Folder 27	Oil Switches	1906
Folder 28	Oscillograph	undated
Folder 29	Oxygen Analyzer	1979
Folder 30	Ozonizer	1913

Box 119

Folder 1	Polyglas	c1960
Folder 2	Porcelain (insulators)	undated

Folder 3	Pumps	1960-1974
Folder 4	Radars	1968-1991
Folder 5	Rifle	1986
Folder 6	Saranade (talking doll)	undated
Folder 7	Static Ground Detector, 1904	1983
Folder 8	Sterilamp	1938
Folder 9	Telescopes	1966
Folder 10	Torpedoes (from <i>Battlefronts of Industry</i>)	1948
Folder 11	Ultrasonic Cleaning Equipment	1975
Folder 12	Univac	1958
Folder 13	Weather Satellite	1974
Folder 14	Welding	c1967
Folder 15	Wind Tunnel	1954
Folder 16	X-Ray	1948-1961

Series X: Publications (1904-1996)

This series contains only internal and external materials published by the Westinghouse Electric Corporation. In this series you will not find:

- publications concerning specific products or events for which series have been established in this collection (i.e.- Electric Railroad Equipment, WWII, etc.).
- publications produced by organizations other than Westinghouse Electric Corporation- such as the Westinghouse Machine Company or the American Institute of Electrical Engineers. These will be found in the Related Companies and Organization series under the name of the company or organization that published the document.
- publications from the Research and Development/ Science and Technology Center. These have been filed in the Research and Development/ Science and Technology series due to their nature and quantity.

Most of the internal publications in this series are employee newsletters from specific departments, facilities, or divisions. These materials are filed alphabetically by the title of the publication, although the location or name of the department, facility, or division is also listed. Employee publication titles are listed in italics to distinguish them from publications made for the public. The newspapers from the Westinghouse Technical Night School- the *Tech Owl* and the *Alumni Association Newsletter*- are also included in this series. Oversized original editions

of 1947 and 1948 Tech Owls are stored in oversize drawers. In addition, bound editions of the *Electric Journal* from 1930-1937 (missing 1934) have been separated to the Library.

This series also contains publications distributed to Westinghouse customers, visitors, and the general public. These publications usually describe a general overview of the corporation, its products, and research. In contrast to the employee publications, they are usually printed on glossy paper with color photographs, and use a more formal writing style.

Box 120

Folder 1	Newspaper production data	1973
Folder 2	ABC of Electronics at Work	c1944
Folder 3	<i>Alumni Association Newsletter</i>	1952-1955
Folder 4	Ammunition for the Firing Line, vol. I	undated
Folder 5	Ammunition for the Firing Line, vol. II	undated
Folder 6	<i>Astronotes</i> (Astronuclear Laboratory)	1964-1971
Folder 7	<i>Bath Lights</i> (Fluorescent and Vapor Lamp Div)	1974-1975
Folder 8	<i>Beaver Newsletter</i> (Distribution and Control Equipment)	1972-1976
Folder 9	The Best-Known Unknown Company in America	1990
Folder 10	<i>Between Us</i> (Trenton Lamp Plant)	1975-1976
Folder 11	The Big Comeback	1956
Folder 12	Big Things are Happening at Westinghouse	1956
Folder 13	Business Portfolio	1994-1995
Folder 14	Calendars	1978-1992

Box 121

Folder 1	<i>CAPA Scintillator</i> (Commercial Atomic Power)	1956-1957
Folder 2	<i>Casino Tech Bulletin</i>	1906
Folder 3	<i>Centennial Review</i>	1986
Folder 4	<i>Cheswick Reactor</i> (Cheswick, PA)	1966
Folder 5	<i>The Communicator</i> (Nuclear Components, Pensacola, FL)	1986-1988
Folder 6	<i>Conveyor</i> (Major Appliance Division, Mansfield, OH)	1974
Folder 7	<i>Corporate Update</i>	1992
Folder 8	<i>Correlations</i> (Corporate Relations)	1989-1990
Folder 9	<i>Cost Cutter</i> (Manufacturing)	1963
Folder 10	The Courage to Pioneer	c1946
Folder 11	<i>CPP Pulse</i> (Westinghouse Idaho Nuclear Co)	1986
Folder 12	<i>Distribution Apparatus News</i> <i>East Pittsburgh News</i>	1961
Folder 13		1968

Folder 14	1969	
Box 122		
Folder 1	January-June, 1970	
Folder 2	July-December, 1970	
Folder 3	1971	
	<i>Electric Club Journal</i>	
Folder 4	1904	
Folder 5	1904	
Folder 6	1905-1911	
Folder 7	1921-1923	
Box 123		
Folder 1	1924	
Folder 2	1928-1935	
Folder 3	1936-1937	
Folder 4	January-August, 1938	
Folder 5	September 1938- March 1939	
Folder 6	<i>Electric Service Division News</i>	1970
Folder 7	<i>Electric Utility News</i>	1964
Box 124		
Folder 1	Electrical Information Especially for Girls	1957
Folder 2	Electrical Living Homes	1950-1952
Folder 3	Electrical Living and How to Have It	1950
Folder 4	Electronics Digest	1945-1946
Folder 5	<i>EMD Challenger</i> (Electro-Mechanical Div.)	1988-1991
	<i>Engineering Achievements</i>	
Folder 6	1920-1931	
Folder 7	1923-1924	
Folder 8	1925-1926	
Folder 9	1927-1928	
Folder 10	1929	
Box 125		
Folder 1	1930	
Folder 2	1931	
Folder 3	1932	
Folder 4	1933	
Folder 5	1935	
Folder 6	Engineering Excellence	1984
	Engineering Progress	
Folder 7	1936-1937	
Folder 8	1938	
Folder 9	1939	
Folder 10	1940	
Folder 11	1942	
Box 126		
Folder 1	Environmental Performance Update	1994
Folder 2	Expanding Role of Electricity in Industry	c1976

Folder 3	Facts and Figures	1972
Folder 4	Flexarc Dial	1938-1940
Folder 5	Forty Years Ago	1924
	<i>Front Line</i>	
Folder 6	1983-1990	
Folder 7	1983-1984	
Folder 8	1985-1986	
Folder 9	1987-1988	
Folder 10	FYI	1981-1984
Box 127		
Folder 1	<i>Generation Technology Systems Division Newsletter</i>	1986
Folder 2	<i>Group W News</i> (Broadcast Div)	1986
Folder 3	<i>Hagan Recorder</i> (Orrville, OH)	1975
Folder 4	<i>Headquarters Magazine</i>	1987-1990
Folder 5	<i>Headquarters Monthly</i>	1986
Folder 6	<i>Highlander News and Briefs</i> (Wire Division, Abingdon, VA)	1975
Folder 7	Highlights of Westinghouse	1954
Folder 8	<i>Home Edition/NEWS Edition</i> (East Pittsburgh, Pittsburgh, PA)	1961-1963
Folder 9	<i>The Hotline</i> (Trenton Lamp Plant, Trenton, NJ)	1975
Folder 10	<i>Impact</i> (Engineering Services Division, Pittsburgh, PA)	1990
Folder 11	<i>Industry and Defense News</i> <i>Industry Service News</i> (Pittsburgh, PA)	1972-1973
Folder 12	1973-1976	
Folder 13	1977-1980	
Folder 14	<i>Instrumentation News</i> (Orrville, OH)	1971-1973
Folder 15	<i>Intercom</i> (Industry Products Communication)	1977-1991
Folder 16	<i>International Digest</i> <i>International News</i>	1982-1989
Folder 17	1980	
Folder 18	1981-1986	
Box 128		
Folder 1	Introduction to Westinghouse	undated
Folder 2	I think... of Tomorrow	c1968
Folder 3	<i>Jim Sheridan Letter</i>	1991
Folder 4	<i>Journal</i> (Large Turbine Division, Philadelphia, PA)	1971-1974
Folder 5	<i>Lamplighter</i> (Incandescent Lamp Division, Trenton, NJ)	1976
	<i>Large Rotating Apparatus News</i>	
Folder 6	1978	
Folder 7	1980	

Folder 8	1981	
	<i>LRA Magazine</i> (Large Rotating Apparatus)	
Folder 9	January- June, 1982	
Folder 10	August- December, 1982	
Folder 11	1983	
Folder 12	1984	
Folder 13	February- May, 1985	
Box 129		
Folder 1	June- December, 1985	
Folder 2	1986	
Folder 3	1987	
Folder 4	<i>Light Flashes</i> (Specialty Lamp Division, Reform AL)	1973-1975
Folder 5	<i>Light Notes</i> (Specialty Lamp Division, Richmond, KY)	1973-1975
Folder 6	<i>Little Rock News</i> (Incandescent Lamp Div, Little Rock, AZ)	1973-1975
Folder 7	Little Science Series (Westinghouse School Service)	1943-1953
Folder 8	<i>Management Newsletter</i>	1957-1974
Folder 9	Manual of Better Home Wiring	1944
Box 130		
Folder 1	Manufacturing	1961
Folder 2	<i>Marketing News</i> (Components and Materials Division, Pittsburgh, PA)	1972
	<i>Mix</i> (Industry and Defense Company)	
Folder 3	1974-1975	
Folder 4	1976-1977	
Folder 5	1978-1979	
Folder 6	1980-1982	
Box 131		
Folder 1	1983-1984	
Folder 2	1985-1986	
Folder 3	1987	
Box 132		
Folder 1	<i>New Horizon</i> (Charlotte Turbine Plant)	1990-1991
Folder 2	<i>News and Views</i> (Chatham Center, Pittsburgh, PA)	1988
Folder 3	<i>News Bulletin</i>	1976
	<i>News Digest</i>	
Folder 4	1986-1988	
Folder 5	1989	
Folder 6	1990	
Folder 7	1991-1995	
Folder 8	<i>News of Interest to Westinghouse</i>	1964-1988
Folder 9	Now Much of It Can Be Told	c1945

Folder 10	NTSD Matrix (Nuclear Technology Systems Division)	1986
Box 133		
Folder 1	Nuclear Energy Digest	1973
Folder 2	<i>Occasional Idea</i>	1931
Folder 3	<i>One Tuscarawas Road</i> (Distribution and Protection Components Division, Beaver, PA)	1985
Folder 4	<i>1001 Brinton Road</i> (Corporate Data Center, Pittsburgh, PA) <i>Pace</i> (Industry Services Division, Pittsburgh, PA)	1986
Folder 5	1981	
Folder 6	1982	
Folder 7	February- June, 1985	
Folder 8	July- December, 1985	
Folder 9	February- July, 1986	
Folder 10	August- December, 1986	
Folder 11	1987	
Folder 12	1988-1989	
Folder 13	1990-1993	
Box 134		
	<i>Passages</i> (News for Retirees)	
Folder 1	1985	
Folder 2	1986	
Folder 3	1987	
Folder 4	1988	
Folder 5	1989	
Folder 6	1990	
Folder 7	1991	
Folder 8	1992	
Folder 9	<i>Pensacola Division News</i>	1969
Folder 10	<i>Perspective</i> (Technical Information Dept.)	1965-1967
Folder 11	<i>Perspective</i> (Technical Information Dept.)	1968-1970
Folder 12	Pictorial Highlights of Engineering	undated
Folder 13	<i>The Point</i> (Westinghouse Building, Pittsburgh, PA)	1995-1996
Folder 14	Portraits of Power	1943
Box 135		
	<i>Power Circuit Breaker News</i> (East Pittsburgh, PA)	
Folder 1	November, 1977	
Folder 2	December, 1977	
Folder 3	January, 1978	
Folder 4	February, 1978	

Folder 5	April, 1978	
Folder 6	June- July, 1978	
Folder 7	<i>Pow-R-Line</i> (Distribution Equipment Div, St. Louis, MO)	1974-1975
Folder 8	<i>PoWeR Lines</i> (PWR Fuel Element Subdiv., Bettis Site)	1955-1956
Folder 9	<i>Power Systems News</i>	1968
Folder 10	<i>Printing Division Register</i>	1982-1983
Folder 11	<i>PSPD News</i>	1976
Folder 12	<i>Quality Magazine</i> (Water Reactor Divisions)	1984
Folder 13	<i>Quarterly</i> (Lester Power Generation Divisions, Philadelphia, PA)	1971-1972
Folder 14	Quick Facts about Westinghouse	1943
Folder 15	Recent Notable Achievements	1920
Folder 16	The Record of 1954	1954
Folder 17	<i>The Rectifier</i> (East Pittsburgh Works)	1937
Folder 18	<i>The Rectifier</i> (East Pittsburgh Works)	1938-1939
Folder 19	regional pamphlets	undated
Folder 20	<i>Relay-Instrument News</i> (Newark, NJ)	1969
Folder 21	<i>Repair Division News</i> (Pittsburgh, PA)	1969-1971
Folder 22	<i>Repair Division Newsletter</i> (Pittsburgh, PA)	1965-1966
Box 136	<i>Sales Letters</i> (East Pittsburgh, indexed in each volume)	
Folder 1	1905-1908	
Folder 2	1909	
Folder 3	1905-1908	
Folder 4	1910	
Box 137		
Folder 1	1911	
Folder 2	1912	
Folder 3	1913	
Folder 4	1914	
Folder 5	1915	
Box 138		
Folder 1	1916	
Folder 2	1917	
Folder 3	1917 (c.2)	
Folder 4	1918	
Folder 5	1919	
Folder 6	1922-1927	
Folder 7	<i>Sales Record</i>	1954-1961
Box 139		
Folder 1	<i>Sales Record</i>	1960-1961
Folder 2	<i>Sales Wedge</i> (Apparatus Sales Department, East Pittsburgh, PA)	1939
Folder 3	<i>Salina News</i> (Lamp Division, Salina, KS)	1973-1975

Folder 4	<i>Service</i>	1922
Folder 5	<i>Service Beacon</i> (Merchandise Service Department, Mansfield, OH)	1936-1940
Folder 6	<i>Shop Ideas</i> (East Pittsburgh, PA)	1943
Folder 7	<i>Signal</i> (Electrical Systems Division, Hunt Valley, MD)	1985
Folder 8	<i>SMD News</i> (Small Motor Div, Lima, OH)	1982
Folder 9	<i>Sooner News for Westinghouse People</i> (Central Residential Air Conditioning Division, Norman, OK)	1974
Folder 10	<i>Spotlight on Systems</i> (Industry Systems Divisions, O'Hara Township, PA)	1979
Folder 11	The Story of Westinghouse	c1953
Folder 12	<i>Sugar n' Spice</i>	1951
	<i>Switchgear News</i> (East Pittsburgh, PA)	
Folder 13	1977-1978	
Folder 14	1979-1980	
Box 140		
Folder 1	1981	
Folder 2	1982	
Folder 3	1983	
Folder 4	1984	
Folder 5	<i>Tampa Division News</i> (Tampa, FL)	1972-1974
Folder 6	TG Report (Turbine Generator Plant, Charlotte, NC)	1991
	<i>Tech Owl</i> (Student publication of the Westinghouse Technical Night School, East Pittsburgh, PA)	
Folder 7	1929-1948	
Folder 8	1953-1959	
Folder 9	<i>Tech Tips</i> (Power Semiconductor Division, Youngwood, PA)	undated
Folder 10	There is one thing you must be sure of...	c1990
Folder 11	<i>Thermo King News</i> (Minneapolis, MN)	1975-1978
Folder 12	This is Westinghouse	1957-1962
Folder 13	This is Westinghouse	1963-c1967
Box 141		
Folder 1	This is Westinghouse	c1970-c1980
Folder 2	<i>Tube Talk</i> (Specialty Metal Plant, Blairsville, PA)	1985-1986
Folder 3	<i>Tube Topics</i> (Electronic Tube Division, Elmira, NY)	1969
Folder 4	<i>Turbine News</i> (Charlotte, NC)	1976
Folder 5	<i>Turbine Topics</i>	1971
Folder 6	The Two at the Top	c1988
Folder 7	<i>United Fund News</i> (Pittsburgh, PA)	1971

	<i>Update</i> (Headquarters News, Pittsburgh, PA)	
Folder 8	1985	
Folder 9	1987-1991	
Folder 10	1993-1994	
Folder 11	<i>Veritrak Vibrations</i>	1975
Folder 12	Waste to Energy Technology	1984-1986
Folder 13	<i>WCC News</i> (Westinghouse Credit Corp., Pittsburgh, PA)	1973-1974
Folder 14	Welcome to Westinghouse	1944-1946
	<i>WENS Bulletin</i> (Westinghouse Editor's News Service)	
Folder 15	1976-1979	
Folder 16	1980	
Box 142		
Folder 1	1981	
Folder 2	1982-1986	
Folder 3	<i>WESCO News</i> (Westinghouse Electric Supply Company, Pittsburgh, PA)	1971-1972
Folder 4	<i>Western Star</i> (Paris Parts Plant, Paris, TX)	1973-1975
Folder 5	Westinghouse	1990
Folder 6	<i>Westinghouse Beacon</i> (Outdoor Lighting)	1971
Folder 7	<i>Westinghouse Circuit</i> (Defense and Electronic Systems Group, Baltimore, MD)	1972-1991
Folder 8	<i>Westinghouse Communicator</i> (Sales Dept.)	1966-1967
Folder 9	<i>Westinghouse Contest News</i>	1973
Folder 10	Westinghouse: Creating Added Value for a Changing World	c1985
Folder 11	<i>Westinghouse Defense News</i> (Linthicum, MD)	1987-1988
Folder 12	Westinghouse Division Managers' Coloring Book	1962
Folder 13	<i>Westinghouse Direction</i> (Business and Management Practices, Pittsburgh, PA)	1960-1961
Folder 14	Westinghouse Engineering Highlights	1945-1946
Box 143		
	<i>Westinghouse Gateway News</i> (Pittsburgh, PA)	
Folder 1	1971-1972	
Folder 2	1973-1974	
Folder 3	1975-1976	
Folder 4	1977-1978	
Folder 5	1979-1980	
Folder 6	1981	
Folder 7	<i>Westinghouse In Depth</i> (Ocean Research and Engineering Center, Annapolis,	

	MD)	1973-1974
Folder 8	Westinghouse International	1925-1931
Folder 9	<i>Westinghouse International News</i>	1971
Box 144		
Folder 1	Westinghouse Is	c1970
Folder 2	<i>Westinghouse Kentuckian</i> (Owensboro, KY)	1972-1975
Folder 3	<i>Westinghouse Lighting Times</i> (Interior Lighting Division, Vicksburg, MS)	1972-1975
Folder 4	<i>Westinghouse Lamp News</i>	1927
Folder 5	<i>Westinghouse Machine News</i> (South Philadelphia Works)	1919-1920
Folder 6	<i>Westinghouse Maintenance News</i> (East Pittsburgh, PA)	1935-1960
Folder 7	<i>Westinghouse Merchandising Service Bulletin</i> (Mansfield, OH)	1935-1936
Folder 8	<i>Westinghouse Meter News</i> (Raleigh, NC)	1976
	<i>Westinghouse News-</i>	
Folder 9	<i>Advanced Reactors Division</i> (Madison, PA)	1971-1976
Folder 10	<i>Air Arm Division</i> (Baltimore, MD)	1959-1963
Folder 11	<i>Ardmore Site, Forest Hills</i> (PA)	1973-1974
Folder 12	<i>Astronuclear Laboratory</i> (Large, PA)	1971-1974
Folder 13	<i>Bettis Atomic Power Laboratory</i> (West Mifflin, PA)	1971
Folder 14	<i>Bryant Division</i> (Bridgeport, CT)	1974-1975
Folder 15	<i>Commercial Industrial Air Conditioning Division</i> (Staunton, VA)	1972
	<i>East Pittsburgh Divisions</i> (PA)	
Folder 16		1971
Folder 17		1972
Box 145		
Folder 1		1973
Folder 2		1974
Folder 3		1975
Folder 4		1976
Folder 5		1977
Folder 6	<i>Electric Stairway and Hydraulic Elevator Division</i> (Gettysburg, PA)	1973
Folder 7	<i>Electronic Systems Support Division</i> (Cockeysville, MD)	1971-1973
Folder 8	<i>Electronic Tube Division</i> (Horseheads, NY)	1974-1975
Folder 9	<i>General Control and Apparatus</i>	

	<i>Repair (Chicago, IL)</i>	1975
Folder 10	<i>High Speed Elevator Division</i> (Jersey City, NJ)	1972-1974
Folder 11	<i>Incandescent Lamp Division</i> (Bloomfield, NJ)	1972-1975
Folder 12	<i>Major Appliance Division</i> (Columbus, OH)	1970
Folder 13	<i>Medium Speed Elevator Division</i> (Dover, NJ)	1973-1974
Folder 14	miscellaneous divisions	1972-1975
Box 146		
Folder 1	<i>Nuclear Energy Systems</i> (Monroeville, PA)	1972
Folder 2	<i>Overhead Distribution Transformer</i> <i>Division (Athens, GA)</i>	1974
Folder 3	<i>Relay-Instrument Division</i> (Newark, NJ)	1971-1972
Folder 4	<i>Semiconductor Division</i> (Youngwood, PA)	1975
Folder 5	<i>Sharon Transformer Division</i> (Sharon, PA)	1976
Folder 6	<i>Small Power Transformer Division</i> (South Boston, VA)	1974-1976
Folder 7	<i>Tele-Computer Center (Braddock</i> <i>Hills, PA)</i>	1976
Folder 8	<i>Turbine Components Plant</i> (Winston-Salem, NC)	1971-1972
Folder 9	<i>Water Reactor Division</i> (Monroeville, PA)	1973-1974
Folder 10	Westinghouse News for Retirees	1983-1984
Folder 11	Westinghouse Newsfront	1945-1946
Folder 12	Westinghouse: Its Organization and Operation	1923-1929
Folder 13	Westinghouse Past, Present, and Future	1936
Folder 14	<i>Westinghouse Printing News (Trafford, PA)</i>	1988-1992
Folder 15	Westinghouse Record (stockholder info)	1960
Folder 16	Westinghouse: the reliable generation	c1971
Folder 17	Westinghouse Retirees' News	1993
Folder 18	Westinghouse School Service	c1943-1952
Folder 19	Westinghouse Steam Division News	1960
Folder 20	Westinghouse Technology	1985-1987
Folder 21	Westinghouse Technology	1988-1990
Folder 22	<i>Westinghouse Tell-O-Scope (East Pittsburgh</i> <i>Division, PA)</i>	1944
Box 147		
Folder 1	Westinghouse Today	1975

Folder 2	Westinghouse Wartime Engineering	1943-1944
Folder 3	<i>Westinghouse Workers' Bulletin</i>	1928
Folder 4	Westinghouse World News (New York, NY)	1972-1973
Folder 5	<i>Westrain</i> (Educational Department)	1946
Folder 6	What is Westinghouse?	1952-1954
Folder 7	<i>Wonders of the Week</i>	1931
Folder 8	The World and Westinghouse	1964-1966
Folder 9	The World of Westinghouse	1964
Folder 10	<i>WRD News</i> (Water Reactor Divisions)	1985-1986
Folder 11	You Can Be Sure	c1980

Series XI: Related Companies/Organizations (1881- 1998)

This series is organized alphabetically by the title of the company or organization. The companies and organizations represented here have some connection with the Westinghouse Electric Corporation, but the materials are not technically part of the Electric Corporation's records. Materials from other Westinghouse companies, such as the Westinghouse Air Brake Company and the Westinghouse Machine Company, will be found here- as well as materials about the George Westinghouse Museum, the Westinghouse SURE retiree organization, and even General Electric. Also filed here are publications concerning issues related to the business of Westinghouse Electric- such as materials from professional organizations and journals. These materials may have been collected for one of two reasons: a Westinghouse employee authored one of the articles, or the Company owned a subscription to the journal.

Box 148

Folder 1	Adam, Meldrum, and Anderson Co. "Golden Jubilee of Electric Lighting"	1936
Folder 2	AEG Westinghouse Transportation Systems, Inc.	c1988
Folder 3	AFL- CIO	1975
Folder 4	Akron Daily Digest (Goodyear)	1996
Folder 5	Allegheny Power	undated
Folder 6	American Association for State and Local History	c1980
Folder 7	American Heritage of Invention and Technology	1988
*Folder 8	American Institute of Electrical Engineers, Panama Pacific Convention	1915
Folder 9	American Institute of Graphic Arts, Pittsburgh Chapter	1991
Folder 10	<i>The American Legion Magazine</i>	1975
Folder 11	American Management Association, "How to say what you mean"	1974
Folder 12	American Museum of Electricity (Niskayuna, NY)	1963
Folder 13	American Society of Mechanical Engineers	1955

Folder 14	American Telephone and Telegraph Company	1970
Folder 15	American Visuals Corporation	1939
Folder 16	American Writing Paper Company Regulations	undated
Folder 17	APICS Castle (Wilmerding, PA)	undated
Folder 18	Arden Trolley Museum	1982
Folder 19	Arj Corporation (Iran)	1972
Folder 20	Association of Engineers and Scientists	1946-1948
Folder 21	Bethlehem Steel	c1971
Folder 22	Bettis Atomic Power Laboratory	1948-1968
Shelf vol. 16	B.F. Sturtevant Company ledger	1867-1873
Shelf vol. 17	B.F. Sturtevant Company ledger	1886-1889
Folder 23	Broadcasters Hall of Fame (Akron, OH)	1994
Folder 24	Carnegie, Andrew (Skibo Castle)	1996
Folder 25	Carnegie Mellon University	1994-1995
Folder 26	CBS Annual Report	1997
Folder 27	CBS articles	1996-1998
Folder 28	CBS radio	1998
Folder 29	Center for the History of Electrical Engineering	1983-1996
Folder 30	Center for Middle Eastern Studies, University of Chicago	1970
Folder 31	Chamber of Commerce of Pittsburgh, city histories	1929-1934
Folder 32	Churchill Area Tour Guide	1979
Box 149		
Folder 1	Commonwealth Edison Company	1984
Folder 2	Con Edison Annual Report	1981
Folder 3	Cooper Industries, Inc.	1953
Folder 4	Coolspring Power Museum (Coolspring, PA)	1990-1992
Folder 5	Curtiss Museum (Hammondsport, NY)	undated
Folder 6	Doble Steam Car, 1925	1998
Folder 7	Duke Goldstone Motion Picture Services	1994
Folder 8	Duquesne Light Company	c1974
Folder 9	Economic Press, "Better Letters" series	undated
Folder 10	Edison, Thomas	undated
Folder 11	Edison, Thomas (by H. Sprague)	1947
Folder 12	Egyptian Radio (Journal of Egyptian State Broadcasting)	1938
Folder 13	Electric Power Research Institute (EPRI) Journal	1979
Folder 14	Electric Power Research Institute (Waltz Mill, PA)	1986
Folder 15	<i>Electric Railroad</i> magazine	1952
Shelf vol. 18	Electric Supply Company ledger (New York)	1881
Folder 16	<i>Electrical Engineer</i> <i>Electrical Engineering</i> (American Institute of Electrical Engineers)	1986
Folder 17	1932-1933	
Folder 18	1934	
Folder 19	1936	

Folder 20	1955	
Folder 21	<i>Electric World</i>	1895
Folder 22	<i>Electrical World</i>	1888
Folder 23	Elliot Services Co. (management information)	1943
Folder 24	ENRON Power Corporation	1994
Box 150		
Folder 1	<i>Factory</i> magazine, "What Industry Means to America"	1936
Folder 2	Ferraris, Professor (correspondence about)	1888
Folder 3	Ford, Henry (dynamo)	1929
Folder 4	Ford Museum and Archives	1928-1974
Folder 5	Foothill Electronics Museum (Los Altos, CA)	1982-1991
Folder 6	Friends of the Railroad Museum of Pennsylvania	1994
Folder 7	Fuel, Gas, and Electrical Engineering Company General Electric	1917
Folder 8	AC Lighting	1892
Folder 9	Advertisements	1920-1971
Folder 10	Annual report	1984-1985
Folder 11	Annual report	1994
Folder 12	Arc Lamps	1892-1898
Folder 13	Articles	1969-1987
Folder 14	Central Station Lighting	1891-1892
Folder 15	Cotton States and International Exposition catalogue	1895
Folder 16	Current Collection Tests	1923
Folder 17	"Edison and Electricity"	c1953
Folder 18	Employee Benefits	c1950
Folder 19	Instruction Books	1894-1904
Folder 20	"Menlo Park Reminiscences"	1938
Box 151		
Folder 1	Motors	1891-1925
Folder 2	"News"	c1965
Folder 3	Oil Tankers	1943
Folder 4	Photographic Collection catalog	c1990
Folder 5	Product Bulletins	1894-1896
Folder 6	"Review"	1918
Folder 7	Short Circuits and Symmetrical Components	1926
Folder 8	Skip Hoists	1930
Folder 9	Transformers	1894
Folder 10	World's Fair Press	1938
Folder 11	General Motors Corporation, "GM Folks" magazine George Westinghouse Museum (Wilmerding, PA)	1941
Folder 12	Articles	1988-1998
Folder 13	Correspondence	1986-1996
Folder 14	Critical Appraisal Report	1989

Folder 15	Docent Information	1988-1998
Folder 16	Greater Pittsburgh Museum Council	1989-1997
Box 152		
Folder 1	Meeting minutes	1988-1998
Folder 2	Newsletter	1988-1997
Folder 3	Operational Information	1987-1997
Folder 4	Records inventory	undated
Folder 5	School Program Feasibility study	1989
Folder 6	Tour scripts	undated
Folder 7	Grand Army of the Republic (use copies)	1894-1950
Folder 8	Hagley Museum and Library (Wilmington, DE)	1986-1990
Folder 9	Hall of Electrical History (Schenectady, NY)	1996
Folder 10	Hall of Fame for Great Americans Foundation	c1976
Folder 11	Hall of History Foundation, "The Current Commentary"	1996
Folder 12	Historical Electronics Museum	1980-1998
Folder 13	I Dream a World (art education organization)	c1990
Folder 14	Imo Industries	1989-1990
Folder 15	Institute of Electrical Engineers (prints) Institute of Electrical and Electronic Engineers	1929
Folder 16	<i>Industry Applications</i> magazine	1999
Folder 17	Repository directory	1977
Folder 18	<i>Spectrum</i> magazine	1987
Box 153		
Folder 1	International Technology Institute	1986
Folder 2	Iran Investment Conference II	1971-1972
Folder 3	Iranian Air Force	1972
Folder 4	Iranian Electronic Industries (Abol Fath Ardalan)	1973
Folder 5	<i>Iron Trade Review</i>	1926
Folder 6	John Scott Medal	c1918-1944
Folder 7	<i>Journal of Abnormal Psychology</i>	1915
Folder 8	Lackawanna and Wyoming Valley Railroad	1907
Folder 9	Leeds and Northrup Company	undated
Folder 10	Little Beaver Creek Valley Railroad of Darlington	1993
Folder 11	Marriott Marquis Hotel (New York City)	1985
Folder 12	Mercantile Trust Company	1907
Folder 13	Metropolitan Engineering Company	1915
Folder 14	Mohawk Valley Heritage Corridor <i>Update</i>	1995-1996
Folder 15	Museum of Broadcasting (New York, NY)	1984
Folder 16	Museum of Modern Art (New York)	1934
Folder 17	Myers, Dr. Harry, "The Value of Order"	1942
Folder 18	National Association of Manufacturers	1940
Folder 19	National Electric Week (National Electrical Contractors Association)	undated
Folder 20	National Inventors Hall of Fame	1990
Folder 21	National Retiree Volunteer Coalition Newsletter	1992-1993

Folder 22	National Underground Storage, Inc.	c1980
Folder 23	Overhead Conductor Electric Railway Company	1887
Folder 24	Pennsylvania Federation of Historical Societies	1988
Folder 25	Pennsylvania Federation of Museum and Historical Organizations	1991-1992
Folder 26	People's Electric Light Company	1949
Folder 27	Perry, Allen M., "Tentative History of the Electrical Industry"	1941
Folder 28	Peterson, Skolnick and Dodge Communication Consultants	1993
Folder 29	Philadelphia Company, 1884	1998
Folder 30	Philadelphia Electric Company	1952-1981
Folder 31	Phipps Conservatory Education News	1997
Folder 32	Pittsburgh Museum of Broadcasting	1992-1996
Folder 33	Pittsburgh Radio and Television Club	1993
Folder 34	Pomona Water Power Plant (Claremont, CA)	1955
Folder 35	Popular Culture Library, Bowling Green "Studio One"	1989
Folder 36	<i>The Progress</i> (Wilkinsburg newspaper)	1957
Folder 37	Recordak (in 1938 time capsule)	1965
Folder 38	Roland Reed Productions, Inc./RFG Associates, Inc.	c1981
Folder 39	Ruud Manufacturing Company	undated
Folder 40	Sawyer-Mann Electric Company	undated
Folder 154		
Folder 1	Socony Mobile	undated
Folder 2	"S&D Reflector" (Sons and Daughters of Pioneer Rivermen, Marietta, OH)	1984
Folder 3	Smithsonian Institution, Electrical Section	1984
Folder 4	Steel City Amateur Radio Club, "Kilo-Watt Harmonics"	1993
Folder 5	"Submarine Defense" by Lindell T. Bates	1918
Folder 6	Studebaker Brothers	undated
Folder 7	<i>Sugar</i> magazine (in Spanish and English)	1914-1919
Folder 8	SURE (Westinghouse retiree association)	1991
Folder 9	Swan, Joseph	1982
Folder 10	Telegraphic Journal and Electrical Review	1883
Folder 11	Tesla Electric Company (USE COPY)	1888
Folder 12	Tesla Electric Company (ORIGINALS)	1888
Folder 13	Tesla Memorial Society, Inc.	1993-1996
Folder 14	<i>Trains</i> magazine	1969
Folder 15	Union Switch and Signal	c1941
Folder 16	US Department of Commerce, "Safety Rules for Radio Installations"	1926
Shelf vol. 19	US Electric Lighting Company, contracts	c1880
Folder 17	<i>The US News</i>	1945
Folder 18	US Steel, Benjamin Fairless accepts John	

	Fritz Award (speech)	1952
Folder 19	University of Pittsburgh Senior Class book	1936
Folder 20	Veteran Employees' Association	1985
	Westinghouse Air Brake Company	
Folder 21	75 th Anniversary	1944
Folder 22	Air Compressor Books	1906-1912
Folder 23	Articles	1919-1991
Folder 24	Automobile Brakes	1937
Folder 25	Dividend check to George Westinghouse, Jr.	1896
Folder 26	Employee Outing	1907
Folder 27	Employee Record Cards	1897-1953
	*(Addendum IV: list of WABCO employee names, page 124)	
Box 155		
Folder 1	General Conference	1923
Folder 2	General Conference (c.2)	1923
Folder 3	Instruction Pamphlets	1920-1941
Folder 4	<i>News</i>	1919
Folder 5	<i>News</i>	1988
Folder 6	White, Irton apprenticeship materials	1927-1930
Folder 7	Westinghouse Brake and Signal Company Limited	1977-1978
	Westinghouse, Church, & Kerr	
Folder 8	1889	
Folder 9	1914-1917	
Box 156		
Folder 1	Westinghouse and Company (Schenectady, NY)	1917
Folder 2	Westinghouse Electric Company	1997
Folder 3	Westinghouse Foundation	1991-1997
Folder 4	Westinghouse Illuminating Company (Schenectady, NY)	1891-c1959
	Westinghouse Machine Company	
Folder 5	<i>The Bulletin</i> index <i>The Bulletin</i>	1906-1911
Folder 6	1906-1909	
Folder 7	1907-1908	
Folder 8	1909-1910	
Box 157		
Folder 1	1910-1914	
Folder 2	1912-1913	
Folder 3	1914	
Folder 4	Contract with Westinghouse Electric Co.	1915
Folder 5	History and Product Information	1905-1991
Shelf vol. 20	Ledger	1885-1894
Shelf vol. 21	Ledger	1903-1906
Shelf vol. 22	Ledger	1904-1905
Folder 6	Product Circulars	1909-1911

Folder 7	Product Circulars	1912-1914
Box 158		
Folder 1	Product Instruction Books	1909-1913
Folder 2	Westinghouse Memorial High School	1962
Folder 3	Westinghouse Union Battery Company (Swissvale, PA)	1921
Folder 4	Westinghouse X-Ray Company, Inc.	undated
Folder 5	White Consolidated Industries	1975-1991
Folder 6	WNEW (Metromedia New York radio station)	1984
Folder 7	Woods, Granville T.	undated

Series XII: Reprints (1901-1950)

This series contains articles from professional journals and conference programs that had been clipped and saved by the Westinghouse Library staff. The articles are mostly technical in nature and relate to products that Westinghouse produced. They have been divided into 28 general subject categories and arranged alphabetically by these categories.

Box 159

Folder 1	Bearings	1911-1935
Folder 2	Business	1911-1949
Folder 3	Capacitors	undated
Folder 4	Controls and Regulations	1911-1942
Folder 5	Distribution and Transmission	1907-1941
Folder 6	Electrical Engineering Applications	1901-1950
Folder 7	Electrical Engineering Fundamentals	1907-1942
Folder 8	Electronic Tubes and Applications	1927-1942
Folder 9	Furnaces	1916-1934
Folder 10	General	1904-1929
Folder 11	General	1930-1944

Box 160

Folder 1	Generators	1927-1950
Folder 2	German language	1906-1931
Folder 3	Insulators	1924-1944
Folder 4	Lighting	1904-1943
Folder 5	Marine Applications	1923-1943
Folder 6	Materials and Materials Processing	1928-1947
Folder 7	Meters and Instrumentation	1906-1942
Folder 8	Motors	1902-1948
Folder 9	Paper Industry	1911-1942
Folder 10	Radio	1926-1936

Box 161

Folder 1	Railroad Equipment	1910-1950
Folder 2	Relays	1910-1941
Folder 3	Steel and Mining Industry	1911-1940

Folder 4	Switchgears and Circuit Breakers	1910-1939
Folder 5	Transformers	1904-1940
Folder 6	Turbines	1910-1944
Folder 7	Urban Transportation	1904-1948
Folder 8	Welding and Brazing	1910-1950

Series XIII: Research and Development/ Science and Technology Center (1919- 1998)

This series is arranged alphabetically by topical folder heading or division and is divided into 6 subseries. The first five subseries contain information relating to the Center as a whole. The first subseries consists of the Center's *annual reports* and presentations made by the Center to the Westinghouse Electric Board of Directors.

The second subseries contains information about the *facilities* of the Research Center. It documents the building and dedication of the 1956 facility in Churchill Borough, as well as the establishment of a facility in Belgium.

The third subseries consists of articles and presentations about the *history* of research at Westinghouse Electric. It is arranged chronologically by the date of the presentation or publication of article to facilitate a more general search of this subseries.

The fourth subseries- *Organization*- contains information about the internal workings of the Center. It is comprised of directories, strategic plans, and presentations about future goals and managerial issues. This subseries also contains the results of a series of research studies done on the publicity efforts of the R&D/S&T Center. The Organization and Activities brochures give a brief overview of the structure and research of the Center.

The fifth subseries- *Publications*- contains materials published specifically for the R&D/S&T Center. Some of the publications are produced for internal purposes (i.e.- employee newsletters), and some were used for visitors, customers, and the general public.

The last subseries contains information specific to projects and products in each division within the Center, usually product brochures and division publications. More information about the composition of these divisions will be listed alphabetically by the name of the division. Organization of the departments into divisions during the late 1970s served as the basis for this arrangement.

Subseries: Annual and Board Reports

Box 162

Folder 1	1937
Folder 2	1959
Folder 3	1960
Folder 4	1962
Folder 5	1967
Folder 6	1972
Folder 7	1974
Folder 8	1978
Folder 9	1980
Folder 10	1981
Folder 11	1982
Folder 12	1983
Folder 13	1985
Folder 14	1988
Folder 15	1989
Folder 16	1990
Folder 17	1991

Subseries: Facilities

Box 163

Folder 1	Capital Expenditures Presentation	1969
Folder 2	Capital Expenditures Presentation	1971
Folder 3	Construction of new facility	1952-1956
Folder 4	Dedication of new facility	1956
Folder 5	Europe (Belgium)	1971-1978
Folder 6	European correspondence	1969
Folder 7	European Laboratory Evaluation	1971
Folder 8	Historical Landmark Designation	1987
Folder 9	Maps	1922-1948
Folder 10	Postcards	1968-1988
Folder 11	Research Library	1951-1958
Folder 12	Research Mini-Theater	undated
Folder 13	"The Role of Research Laboratories" by Zener	1956
Folder 14	Time Capsules	1939-1995

Subseries: Histories

Folder 15	1919- "The First Three Years of Westinghouse Scientific Research"
Folder 16	c1930- "Research"
Folder 17	1931- "Stories of Westinghouse Research"
Folder 18	1936- "Fifty Years of Westinghouse Research"
Folder 19	1939- "Evaluation of Research Pioneering"
Folder 20	1941- "History of the Westinghouse Research Laboratories"

Box 164

Folder 1	1942- "History of the Westinghouse Research Laboratories"
Folder 2	1942- "Westinghouse Research Organization"
Folder 3	1944- "Nation's Business" section draft
Folder 4	1944- "Progress in Engineering and Research"
Folder 5	1952- "Research in Industry"
Folder 6	1953- "Physicists in Industry"
Folder 7	1956- "Research: Road Map for the Future"
Folder 8	1957- "Significant Westinghouse Research Developments"
Folder 9	1957- Westinghouse as a major research company (editorials)
Folder 10	1958- "Organizing a Manufacturing Laboratory"
Folder 11	1958- "Westinghouse Research: An Investment in Tomorrow"
Folder 12	1961- "Research and its Exploitation"
Folder 13	1963- "Research Laboratories" from graduate student manual
Folder 14	1966- "An Introduction to Achievement Hall"
Folder 15	1969- "Westinghouse in Forest Hills"
Folder 16	1978- "Physics Careers at Westinghouse"
Folder 17	1980- "Recollections of the Research Laboratories on Ardmore Boulevard"
Folder 18	1981- "Innovation in Westinghouse: New Product Organizations, 1946-1976"
Folder 19	1986- "Engineering R&D at Westinghouse, 1886-1922"
Folder 20	c1986- "The First 100 Years of R&D within Westinghouse"
Folder 21	1986- Innovation list
Folder 22	1987- "Early Days of the Autoclave Lab"
Folder 23	1988- "Managing Change in an R&D Environment"

Subseries: Organization

Box 165

Folder 1	Advisory Council Report	1988
Folder 2	Analysis of shift in research professions at Westinghouse	1973
Folder 3	Budget and Workforce Report	1971
Folder 4	Comparison with GE Research and Development	1985
Folder 5	Corporate Research and Development Report	1971
Folder 6	Corporate Study of R&D Center	1984
Folder 7	Directories	1948-1970
Folder 8	Directories	1985-1988
Folder 9	Employee Roosters	1927-1940
Folder 10	Energy Systems Business Unit	1994
Folder 11	Engineering Managers' Forum	1981
Folder 12	IR 100 Competition	1979
Folder 13	'Managing the R&D- Marketing Relationship' Presentation	1985

Folder 14	'National Policy and R&D' speech	1985
Folder 15	Nuclear Science and Division articles	c1960-c1980
Folder 16	Operation Manual	1970
Box 166		
Folder 1	Operation Manual	1973
Folder 2	Organizational Charts	1960-1981
	Publicity reports	
Folder 3	1979 (vol. 1)	
Folder 4	1979 (vol. 2)	
Folder 5	1979 (vol. 3)	
Box 167		
Folder 1	1980 (vol. 1)	
Folder 2	1980 (vol. 2)	
Folder 3	1981	
Folder 4	1982	
Box 168		
Folder 1	1983	
Folder 2	Published articles on Westinghouse R&D Management	1968-1969
Folder 3	Reorganizations	1961-1988
Folder 4	Research Club Constitution	1948
Folder 5	'Setting the Stage for R&D'	1959
Folder 6	'Seven Technologies for the Eighties' presentation	1980
Folder 7	Specialist Directory	1976
Folder 8	Statement of Purpose and Projects	1963
Folder 9	Statement of Purpose	c1975
Folder 10	Strategic Defense Initiative Contracts	1986-1988
Folder 11	Strategic Plan	1976
Folder 12	Strategic Plan (c. 2)	1976
Folder 13	Strategic Plan	1976-1980
Box 169		
Folder 1	Strategic Plan	1978-1982
Folder 2	Technical Program Selection and Support	1979
Folder 3	Technology and Products presentation	1975
Folder 4	'Technology Talks' Report	1979
Subseries: Publications		
Folder 5	"Achievement Hall"	1969
Folder 6	"Adventures in Research"	1946
Folder 7	"A Few Facts about Westinghouse R&D Center"	1987
Folder 8	"General Engineering Laboratories"	undated
Folder 9	"A Guide to the Westinghouse Research Laboratories"	1956
Folder 10	"How to find it"	1955
Folder 11	"How to get there"	1974
Folder 12	"An Inside Look at the Westinghouse R&D Center"	1988

Folder 13	"Institutional Research (for the Institutional Investor)"	1989
Folder 14	"Jots and Titles"	1928
Folder 15	Lab 30 television show	c1955
Folder 16	Landscaping tour	1968
Folder 17	Magazine articles	1973-1977
Folder 18	"March of Research"	1949
Folder 19	"Material Engineering" Newsletter	1957
Folder 20	New Employee Manual	1957-1967
Folder 21	Newspaper articles	1972-1973
Box 170		
Folder 1	"Perspective"	1969
Folder 2	"Profile"	1975-1987
Folder 3	"Reinvestment of Earnings"	1958
Folder 4	"Research/Development"	1976
Folder 5	"Research Developments"	1966
	"R&D Highlights"	
Folder 6	1980-1981	
Folder 7	1982	
Folder 8	1983-1984	
Folder 9	1986	
Folder 10	1992-1993	
	"R&D Letter"	
Folder 11	1958-1963	
Folder 12	1964-1968	
Folder 13	1969-1970	
Box 171		
Folder 1	"R&D News"	1968-1973
Folder 2	"R&D Newsletter"	1979-1986
Folder 3	"R&D Technology"	1986-1987
Folder 4	"R&D for Today and Tomorrow"	1978
Folder 5	"Re-De Scope"	1961
Folder 6	"Research...an investment in tomorrow"	1956
Folder 7	"Research Developments"	1965
	"Research Newsletter"	
Folder 8	1941-1943	
Folder 9	1944	
Folder 10	1945	
Folder 11	1948	
Folder 12	1949	
Folder 13	1950	
Folder 14	1951	
Folder 15	1952	
Folder 16	1953	
Folder 17	1954	

Box 172

Folder 1	1955	
Folder 2	1956	
Folder 3	1957	
Folder 4	1958	
	"Research Progress"	
Folder 5	1940	
Folder 6	1941	
Folder 7	1942	
Folder 8	1943	
Folder 9	"Science and Technology Center"	1991
Folder 10	"Science and Technology Center Capabilities"	undated
Folder 11	"Science and Technology Center: Innovative Solutions"	c1998
	"Scope and Focus"	
Folder 12	1964	
Folder 13	1966	
Folder 14	1971	
Folder 15	"Source of Ideas, Bank of Skills"	1969
Folder 16	"Summer Program"	1969
Folder 17	"Technology Briefs"	1994-1998

Box 173

Folder 1	"Technical Bulletin"	1974-1976
Folder 2	"Travel Directions and Services Directory"	undated
Folder 3	"Westinghouse Involvement in Nine Technologies That Make Society Better"	c1985
Folder 4	"The Westinghouse R&D Center"	1984
Folder 5	"Westinghouse Research and Development in Churchill Borough"	1959
Folder 6	"Westinghouse Research Laboratories"	1951
Folder 7	"Westinghouse Research Laboratories"	1953

Subseries: Divisions

Applied Science Division (optical, gas lasers, crystals, system sciences, nucleonics, gas physics, high voltage, power interruption, lamps)

Box 173

Folder 8	Acousto-Optic Tunable Filter	c1970
Folder 9	Applied Mechanics	1986
Folder 10	Applied Optics	1972
Folder 11	Applied Science Division brochure	c1980
Folder 12	Corporate Productivity Programs	1980
Folder 13	Home Construction	1970
Folder 14	Intrusion Detections System	1973
Folder 15	Ion Implantation	undated
Folder 16	Lamp Research	c1940

Folder 17	Lamp Research	1981
Folder 18	Laser Beams	1969
Folder 19	Laser History	1988
Folder 20	"Laser Metalworking"	1987
Folder 21	Optical Analyzer	1989
Folder 22	Optics	1940-1972
Folder 23	Product Transition Laboratory	1968

Box 174

Folder 1	Protective Organic Coatings	1967
Folder 2	R&D/Defense Synergy	1981
Folder 3	TFEL Edge-Emitter Array laser printer	1988
Folder 4	Video Information Processing	1970

Chemical Science Division (electrotechnology, insulation chemistry, physical and inorganic chemistry, polymers, plastics)

Folder 5	Adhesive Research	1970
Folder 6	Combustion and Sulfur Sorbent Testing	undated
Folder 7	Division Organizational Chart	1968
Folder 8	Invited Lectures and demonstrations	1958-1973
Folder 9	Microwaves history	1988
Folder 10	Photoelastic Stress Analysis	1966
Folder 11	Plastic Inventions	1968
Folder 12	Ultrasonic Instrumentation	1973

Electronics Division (automation, power electronics, equipment design, control, instrumentation)

Folder 13	Artificial Intelligence	1986
Folder 14	Electric Discharges in Radial Magnetic Fields	1938
Folder 15	Electronic and Electrical Circuits and Systems	1969
Folder 16	Electronic Systems history	1993
Folder 17	Electric Vehicle Research	1975
Folder 18	Electromagnetic Launcher/ "Railgun"	1982-1992
Folder 19	Karlovitz-Halaszi Generator	1937-1946

Box 175

Folder 1	Manufacturing (aircraft)	1991
Folder 2	Manufacturing Laboratory	1960
Folder 3	Manufacturing Systems	1964-1972
Folder 4	Molecular Electronics	1960-1961
Folder 5	"Opcon" robot	1958
Folder 6	Picturephone	1969
Folder 7	Radar (airborne)	undated
Folder 8	Radar Systems	1986
Folder 9	SEC Camera Tube	1968
Folder 10	SLATE Electronic Typewriter	1974
Folder 11	Transistors	1968
Folder 12	Two-in-One Television System	1976

Folder 13	Type U Circuit Breaker Technical Reports	1925
Folder 14	Video Information Processing	1970

Energy Systems Division (chemical engineering, mechanics, electrochemical energy systems, heat transfer, fluid dynamics)

Folder 15	Combustion Laboratory	1952
Folder 16	Energy Program Management Group	undated
Folder 17	'Energy R&D for Electric Utilities' presentation	1978
Folder 18	'Energy Systems Operation' brochure	undated
Folder 19	Fluid Systems Laboratory	1973
Folder 20	High Temperature Heat Pump	undated
Folder 21	Induction Heating	1953
Folder 22	Nuclear Engine for Rocket Vehicle Application (NERVA)	c1989
Folder 23	PEPCO Energy Storage System	1976

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Folder 1	Power Department Technical Data	1917-1926
Folder 2	Power Forum Presentation	1964
Folder 3	Power Systems brochure	c1960
Folder 4	Power Systems Research Presentation	1976
Folder 5	Solar Cells	1977-1980
Folder 6	Solid Oxide Fuel Cells	1981-1989
Folder 7	Switching and Power Interruption	1982
Folder 8	Thermoelectric engine	1959
Folder 9	Thermoelectricity	1961

General Sciences Division (testing, evaluation, standards, computer sciences, vacuum physics, biology)

Folder 10	ANACOM (computer)	1986
Folder 11	Electric Arcs in Vacuums	1968
Folder 12	Heat Stress Management Program	undated
Folder 13	Human Sciences Center	1982
Folder 14	Sociologic Systems Department	1972
Folder 15	Standard Unit Symbols (table and certificate)	1914-1965
Folder 16	Surface Analysis	undated
Folder 17	Testing Laboratories	1978-1984

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Geoscience Division

Folder 1	Clean Room	c1960
Folder 2	Coal Mining and Land Reclamation	undated
Folder 3	Digital Distribution Analyzer	1968
Folder 4	Environmental Systems and Services	1990
Folder 5	Georesearch Laboratory	1968-1969
Folder 6	Homeology Products	1970-1972
Folder 7	Pollution Control	1967-1973

Folder 8	Refuse Reclamation Plants	1963
Folder 9	Water and Waste Treatment	1972

Materials Science Division (metallurgy, magnetics, ceramics, glass, nuclear)

* See also: Products- Nuclear Power (Series 9)

Folder 10	Advanced Power Systems Division highlights	1986
Folder 11	articles (about department)	1956-1983
Folder 12	Atom Smasher articles	1936-1996
Folder 13	Atom Smasher IEEE Historical Milestone	1985
Folder 14	Atomic Power compilation	1948-1976
Folder 15	Atomic Power Division Directory	1949
Folder 16	Atomic Power projects	1958
Folder 17	Atomic Power Technical Report Manual	c1960
Folder 18	Atomic Power at Westinghouse	1959
Folder 19	Cold Fusion measurements	1990
Folder 20	"First in Atomic Power"	1958
Folder 21	Gulf Corporation High Temperature Gas Reactor Investigation	1974
Folder 22	Magnetic Materials Research Center	undated
Folder 23	Materials Characterization Laboratory	1981-1984
Folder 24	Materials Engineering Department booklet	1958
Folder 25	Materials Process Laboratory	undated
Folder 26	Metallurgy and Chemistry booklet	1954
Folder 27	Nuclear Energy Digest	1973
Folder 28	Nuclear Fuel Fabrication	undated
Folder 29	Nuclear Market Acceptance	1984-1985

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Nuclear Physics correspondence

Folder 1	1935	
Folder 2	1936	
Folder 3	1937	
Folder 4	1938-1941	
Folder 5	Nuclear Physics Investigation- First Report	1939
Folder 6	Nuclear Propulsion, Mamie Doud Eisenhower Award	1959
Folder 7	Nuclear Propulsion and Space Power Generation	1961
Folder 8	Nuclear Reactor Pressure Vessels	1973
Folder 9	PWRPD Test Engineering Charter	undated
Folder 10	Remote Metallographic Facility	1982

Ocean Research Division

Folder 11	Deepstar 2000	1969-1971
Folder 12	Gulfview Diving Log	1968
Folder 13	Ocean Research Laboratory	1966-1968
Folder 14	Shock Mitigating Plastic Foam	undated

Folder 15	Sonar Research	1966-1982
Folder 16	Ultrasonic flowmeters	1981

Solid State Division (superconductivity, semiconductors, microelectronics, thin film)

Folder 17	Applied Superconductivity	c1985
Folder 18	Display Research	undated
Folder 19	Energy Conversion Research	1972
Folder 20	Semiconductor Modernization Project	1977
Folder 21	Semiconductor pamphlet	c1970
Box 179		
Folder 1	Solid State Division brochures	1980-1984
Folder 2	Solid State Power Processing	undated
Folder 3	Superconductivity Research	1987-1989
Folder 4	Superconductor articles (domestic)	1972-1973
Folder 5	Superconductor articles (foreign)	1972-1973
Folder 6	Trilevel Lithography	1983

Series XIV: Speeches (1968-1980)

This small series is arranged chronologically by the date the speech was made. This arrangement reflects the exact order of the materials as they were originally filed. The event, the presenter, and in some cases the title of the speech are recorded in the folder heading. The speeches in this series occurred from 1968-1980 and were mostly given by members of the senior management.

Box 180		
Folder 1	G.L. Wilcox, Westinghouse Policy Course	1968
Folder 2	L.M. Stark, Pittsburgh Personnel Association	1968
Folder 3	G.L. Wilcox, Management Council Meeting	1968
Folder 4	G.L. Wilcox and F.E. Spindler, Elmira Customer Service Award	1968
Folder 5	G.L. Wilcox, Atomic, Defense, and Marine Management	1968
Folder 6	G.L. Wilcox, East Pittsburgh Management Meeting	1968
Folder 7	G.L. Wilcox, Greater Tampa Chamber of Commerce	1968
Folder 8	L.M. Stark, American Public Power Association Workshop	1968
Folder 9	G.L. Wilcox, Friends of Scouting	1969
Folder 10	S.W. Herwald, Engineering Managers Meeting	1969
Folder 11	L.M. Stark, "Communications," Management Groups	1969

Folder 12	G.L. Wilcox, Westinghouse Policy Course	1969
Folder 13	G.L. Wilcox, New York Veteran Employees' Association	1969
Folder 14	G.L. Wilcox, Management Council	1969
Folder 15	C.H. Weaver, Management Council	1969
Folder 16	G.L. Wilcox, PAD Management Meeting	1970
Folder 17	G.L. Wilcox, Westinghouse Policy Course	1970
Folder 18	G.L. Wilcox, PAD Management Meeting	1970
Folder 19	G.L. Wilcox, Management Council	1970
Folder 20	D.C. Burnham, "Two Talks," World Affairs Council and School for Environmental Management	1970
Folder 21	H.S. Kaltenborn, International Brotherhood of Electrical Workers Convention	1970
Folder 22	G.L. Wilcox, International Teachers' Seminar	1970
Folder 23	G.L. Wilcox, Westinghouse Policy Course	1971
Folder 24	G.L. Wilcox, Patent Department Meeting	1971
Folder 25	G.L. Wilcox, Management Council	1971
Folder 26	L.W. Yochum, Management Council	1971
Folder 27	J.M. Schiff, Management Council	1971
Folder 28	A.L. Bethel and S.W. Herwald, Management Council	1971
Folder 29	G.L. Wilcox, Introduction of Governor Shapp	1971
Folder 30	G.L. Wilcox, Advanced Degree Program Symposium	1971
Box 181		
Folder 1	G.L. Wilcox, Defense Management Meeting	1971
Folder 2	G.L. Wilcox, "United Fund," Headquarters Directors	1971
Folder 3	G.L. Wilcox, dedication of Pittsburgh International Airport	1971
Folder 4	G.L. Wilcox, Power Generation Meeting	1971
Folder 5	G.L. Wilcox, "Within the Law," Law Department Staff Meeting	1971
Folder 6	G.L. Wilcox, "A Sound Policy Restated," Fort Lauderdale Conference	1971
Folder 7	H.S. Kaltenborn, "A Matter of Compensation," Fort Lauderdale Conference	1971
Folder 8	C.A. Ruch and N.B. Kopta, Overseas Public Relations Agency Conference	1971
Folder 9	G.L. Wilcox, "The Challenge Facing Government and Industry," PA Government Officials	1972
Folder 10	G.L. Wilcox, Westinghouse Policy Course	1972
Folder 11	D.C. Burnham, Testimony before the Joint Economic Committee of Congress	1972
Folder 12	G.L. Wilcox, "Westinghouse and the Government	

	and Society," Power Systems Management	1972
Folder 13	G.L. Wilcox, Mitsubishi Representatives	1972
Folder 14	G.L. Wilcox, "Negotiations," Industrial Relations and Communications Coordinator	1973
Folder 15	G.L. Wilcox, Buffalo Management Association	1973
Folder 16	G.L. Wilcox, "Support for your most important role," Power Systems International Conference	1973
Folder 17	G.L. Wilcox, "Disaster Prevention," Policy Committee Council	1973
Folder 18	G.L. Wilcox, "Negotiations," Division Managers Meeting	1973
Folder 19	G.L. Wilcox, "Operation Trim," Division Managers Meeting	1973
Folder 20	G.L. Wilcox, Westinghouse Policy Course	1973
Folder 21	G.L. Wilcox, Broadcasting, Learning and Leisure Time- Management Committee	1973
Folder 22	D.J. Povejsil, "Personnel Planning for Business Results," Industrial and Employee Relations Management Meeting	1973
Folder 23	D.J. Povejsil, "More Spark for your United Fund Campaign," R&D Center	1973
Folder 24	C.A. Ruch, "United Fund Communications" R&D Center	1973
Folder 25	D.J. Povejsil, Baltimore Veterans' Association	1973
Folder 26	G.L. Wilcox and C.A. Ruch, Salary Administrators Meeting	1973
Folder 27	G.L. Wilcox, Westinghouse Policy Course	1974
Folder 28	D.J. Povejsil, International Brotherhood of Electrical Workers Conference	1974
Folder 29	G.L. Wilcox and D.J. Povejsil, Westinghouse and the United Way	1974
Folder 30	G.L. Wilcox, Mitsubishi Representatives	1974
Folder 31	D.J. Povejsil, Pittsburgh Veteran Employees Association	1974
Folder 32	D.J. Povejsil, Manufacturing Managers Meeting	1974
Folder 33	D.J. Povejsil, "Personnel," Atlantic Region Meeting	1974
Folder 34	D.J. Povejsil, National 4-H Congress	1974
Folder 35	C.A. Ruch, Muncie Veteran Employees Association	1975
Folder 36	D.J. Povejsil, Retired Employees Association of Florida	1975
Folder 37	R.F. Kennedy, Southwest Equal Employment Opportunity Conference	1975
Box 182		
Folder 1	D.J. Povejsil, Southeastern Region Meeting	1975
Folder 2	G.L. Wilcox, "The Ball is in your Court,"	

	R&D Center	1975
Folder 3	D.J. Povejsil, "A Matter of Ups and Downs,"	
	R&D Center	1975
Folder 4	G.E. Moore, "Tools and Time Tables," United Way	1975
Folder 5	C.A. Ruch, "Communications to Win Joiners and	
	Influence Stay-Ins," R&D Center	1975
Folder 6	G.L. Wilcox, United Way Westmoreland County	1975
Folder 7	R.E. Kirby, Commerce Department Briefing	1975
Folder 8	R.E. Kirby, Public Utility Buyers' Group Meeting	1976
Folder 9	W.A. Towle, Retired Employees' Association of	
	Florida	1976
Folder 10	C.A. Ruch, "Negotiations," Corporate	
	Communications Meeting	1976
Folder 11	R.E. Kirby, Communications Meeting	1976
Folder 12	J.W. Simpson, "Where is the Morality?"	1976
Folder 13	D.J. Povejsil, "The People Aspects of	
	Westinghouse," Student Leader Colloquium	1976
Folder 14	D.J. Povejsil, "The Spirit of '76... Successful	
	Negotiations," R&D Center	1976
Folder 15	R.E. Kirby, Annual Stockholder Meeting	1976
Folder 16	R.E. Kirby, Cooper Development Association	1976
Folder 17	D.J. Povejsil, Minority Vendor Graduation Program	1976
Folder 18	G.L. Wilcox, United Way	1976
Folder 19	E.V. Clark, Jr., Sharon Veteran Employees	1976
Folder 20	G.C. Hurlbert, Association of Edison Illuminating	
	Companies	1976
Folder 21	G.L. Wilcox, United Way	1976
Folder 22	C.A. Ruch, Bryant Veteran Employees Association	1976
Folder 23	D.D. Danforth, Financial Analysts Meeting	1976
Folder 24	R.E. Kirby, American University	1976
Folder 25	R.E. Kirby, Westinghouse Communications	
	Conference	1977
Folder 26	R.E. Kirby, Fortune Corporate Communications	
	Seminar	1977
Folder 27	R.E. Kirby, D.D. Danforth, C.H. Hurlbert and	
	T.J. Murrin, Financial Analyst Meeting	1977
Folder 28	D.J. Povejsil, Human Resources Association	1977
Folder 29	C.H. Weaver, Westinghouse Executive Forum VIII	1977
Folder 30	R.E. Kirby, D.D. Danforth, and T.J. Murrin,	
	Security Analysts Meeting	1978
Folder 31	L.W. Yochum, Management Visibility Presentation	1978
Folder 32	N.V. Petrou, Construction Group Business Unit	
	Managers	1978
Folder 33	C.A. Ruch, Power Systems Personnel Relations	
	Managers	1978

Folder 34	D.L. Trezise, Public Systems Personnel Relations Managers	1978
Folder 35	N.V. Petrou, Human Resources Strategic Planning Training Program	1978
Folder 36	R.E. Kirby, Southern Governors' Conference	1978
Folder 37	N.V. Petrou, "Benjamin Garver Lamme," Baltimore R&D Symposium	1978
Folder 38	N.V. Petrou, "Individual Salary Increase Program," Human Resources Managers	1978
Folder 39	N.V. Petrou, Veteran Employees' Association	1978
Folder 40	T.J. Murrin, Large City School Superintendents' Conference	1978
Folder 41	N.V. Petrou, Baltimore Veteran Employees' Association	1978
Folder 42	N.V. Petrou, Westinghouse Management Association	1978
Folder 43	N.V. Petrou, "Affirmative Action in Employment and Supply," Purchasing Managers	1978
Folder 44	G.C. Hurlbert, "The Anger of Decent Men," Association of Edison Illuminating Companies	1978
Folder 45	R.E. Kirby, President's Commission on Personnel Interchange	1978
Folder 46	N.V. Petrou, Industry Products Company Business Unit Review Meeting	1979
Folder 47	N.V. Petrou, "Wage Standards," Corporate World Relations Staff Meeting	1979
Folder 48	N.V. Petrou, "Performance Share Program," Executive Group	1979
Folder 49	N.V. Petrou, Retired Employees' Association	1979
Folder 50	N.V. Petrou, Personnel Relations Managers Meeting	1979
Folder 51	D.D. Danforth, "Productivity Improvement," Control Equipment Group Headquarters	1979
Folder 52	N.V. Petrou, Public Systems Company Personnel Relations Managers' Meeting	1979
Folder 53	D.L. Trezise, Retired Employees' Association	1980

Series XV: Westinghouse Library (1905-1993)

This series consists of books taken from the Research and Development/ Science and Technology Center's Library. They are technical in nature and have been retained in the collection because they either mention a Westinghouse product or were written by a Westinghouse employee.

Box 183

Advanced strength of materials. by J.P. Den Hartog. McGraw-Hill Book Company, 1952.

Airborne radar. by Donald J Povejsil, Robert S. Raven, Peter Waterman. Boston Technical Publishers, Inc., 1965.

The Alternating Current Motor and its Application to Reversing Mill Drive. Published by Westinghouse Electric & Mfg. Company, 1914.

American Institute of Electrical Engineers: History of Pittsburgh Section. American Institute of Electrical Engineers, 1947.

Arc physics, by Max F. Hoyaux. Springer-Verlag, 1968.

As I remember: the autobiography of Stephen P. Timoshenko, by Stephen P. Timoshenko. D. Van Nostrand Company, 1968. (Timoshenko worked at Westinghouse 1923-1927)

Battlefronts of industry: Westinghouse in World War II, by David O. Woodbury. John Wiley & Sons, 1948.

The Binding force, by the Scientists of the Westinghouse Research Laboratories. Walker and Company, 1966. (A Westinghouse Search Book)

Boiling heat transfer and two-phase flow, by L.S. Tong. New York, John Wiley, 1965. (A Westinghouse author)

Bringing total quality to sales, by Cas Welch and Pete Geissler. ASQC, 1992. (Signed by Cas Welch, a Westinghouse author)

Business Week: The Reindustrialization of America. McGraw-Hill, June 30, 1980.

A Century of light, by James A. Cox. The Benjamin Company, 1979. (Edison work on light.)

"Chevron World," *Standard Oil Company of America* (Centennial 1879-1979), Winter 1979 issue.

A Chronological history of electrical development from 600B.C. National Electrical Manufacturers Association, 1946.

Collecting old radios and crystal sets, by Max Alth. Wallace-Homestead Book Co., 1977.

Conductibilite electrique isolants solides et des semi-conducteurs, by A.F. Joffe. Paris, Hermann et Cie. 1934 (in French) Actualites Scientifiques et Industrielles 87. Reunion International de Chimie- Physique 1933 VII.

Conduction of Electricity in Gases: A Series of Lectures by J. Slepian. East Pittsburgh, Westinghouse Electric and Manufacturing Co. (Education Dept), 1933. (Westinghouse author, 2 copies)

Connecting induction motors: the practical application of a designing engineers' experience to the problems of operating engineers, armature winders and repair men. Also the presentation to students of practical questions arising in winding and connecting alternating current motors, by A.M. Dudley. 3rd edition. McGraw-Hill, 1936. Introduction by B.G. Lamme. (Westinghouse author, signed copy)

The cooling of electric machines and cable, by Theodore De Koning. Hertogenbosch Holland, Zind-Nederlandsche Drukkerij N.V., 1955

Crystallographic data on metal and alloy structures. Compiled by A. Taylor and Brenda J. Kagle. Dover Publications, 1963.

Crystals: perfect and imperfect, by the Scientists of the Westinghouse Research Laboratories. Walker and Company, 1965. (A Westinghouse Search Book)

Cyclopedia of applied electricity: Part I Current measurements wiring telegraph. American Technical Society, 1905.

Box 184

Cyclopedia of applied electricity: Part II Direct Current Dynamos, Machines, and Motors; Storage Batteries. American Technical Society, 1905.

Cyclopedia of applied electricity: Part III Power stations lighting railways. American Technical Society, 1905

Cyclopedia of applied electricity: Part IV Alternating currents power transmission. American Technical Society, 1905.

Cyclopedia of applied electricity: Part V Telephony index. American Technical Society, 1905.

Dampf-Und Gas-Turbinen, by A. Stodola. 5th edition. Berlin, Springer, 1922. (in German)

Dampf-Und Gas-Turbinenn, by A. Stodola. 6th edition. Berlin Springer 1924. (in German)

Davis, Evan Albert, *Published papers of Evan Albert Davis*. Collected on the occasion of his retirement from Westinghouse Electric Corporation, Dec 31, 1969.

Box 185

Deep-Sea World: The Story of Oceanography, by Charles Coombs. New York: William Morrow and Co., 1966. (Westinghouse Deepstar submersible)

Determinations of atomic weights, by Theodore W. Richards and Hobart Hurd Willard. Published by the Carnegie Institute of Washington, 1910. (Carnegie Institute of Washington Publication No. 125)

The Development of the Ontario Power Company, by P.N. Nunn. Ontario Power Co., 1905 (AIEE). (Paper presented at 22nd Annual Convention AIEE Asheville NC, 1905)

"Diamond Jubilee of Light," *Niagara Mohawk News*. Vol. 17, no.5. October 1954. (75th anniversary of Edison's invention of incandescent lamp)

Dielectric Materials and their behavior as Insulators A series of Lectures, 1946.

Dimensions of the successful corporations of the 1990's, by Douglas Danforth. Pittsburgh, PA.:Carnegie Mellon University, 1985. (1987 Benjamin F. Fairless Memorial Lecture)

Distribution Systems: Electric Utility Engineering Reference Book, by Electric Utility Engineers of the Westinghouse Electric Corporation. East Pittsburgh: Westinghouse Electric Corporation, 1959.

Elasticity and anelasticity of metals, by Clarence M. Zener. University of Chicago Press, 1948. (Westinghouse author)

"The Electric Century 1874-1974." *Electrical World*, vol. 181, Number 11 (June 1, 1974) (*Electrical World's* 100th anniversary edition)

Electrical Characteristics of Transmission Circuits, by William Nesbit. Westinghouse Night School Press, 1926.

Electrical engineering papers, by Benjamin Lamme. Westinghouse Electric & Manufacturing, 1919. (2 copies, one signed by author)

Electrical engineering problems, by E.M. Williams and F.J. Young. McGraw-Hill, 1960. (Westinghouse author)

The Electrical equipment conspiracies: The treble damage actions, by Charles A. Bane. Federal Legal Publications, 1973.

Electrical insulation: Its application to shipboard electrical equipment, by Graham Lee Moses. McGraw-Hill, 1951. (Westinghouse author, written in Asian characters- no English.)

Box 186

The Electrical Manufacturers 1875-1900: a study in competition, entrepreneurship, technical change, and economic growth, by Harold C. Passer. Harvard University Press, 1955.

Electrical transmission and distribution reference book, by Central Station Engineers of the Westinghouse Electric and Manufacturing Company. 1st ed. East Pittsburgh, PA: Westinghouse Electric and Manufacturing Company, 1942.

Electrical World directory of electric utilities. By John E. Slater. McGraw-Hill, 1969.

Electrified oil production... an engineering text, by J.K. Howell and E.E. Hogwood. Tulsa, OK: The Petroleum Publishing Co., 1962

The Electromagnetodynamics of fluids, by W.F. Hughes and F.J. Young. John Wiley & Sons, 1966. (Westinghouse author, signed copy)

Electrons on the move, by the Scientists of the Westinghouse Research Laboratories. Walker and Company, 1964. (A Westinghouse Search Book)

Electronics at work: The Theory and Application of Electronics (Part I), Westinghouse Electric and Manufacturing Co., 1943.

Energy does matter, by The Scientists of the Westinghouse Research Laboratories. Walker and Company, 1964. (A Westinghouse Search Book)

Engineering problems, by Westinghouse Engineers. Edited E.B. Roberts. Westinghouse Technical Night School Press, 1930.

Factory Testing of Electrical Apparatus. Published by Westinghouse Electric & Manufacturing Co., 1928.

Factory Testing of Electrical Apparatus, 2nd Ed. Published by Westinghouse Electric and Manufacturing Co., 1942.

Fischer, Edward G., *Selected papers of Edward G. Fischer* published on the occasion of his retirement from the Westinghouse Electric Corporation Research and Development Center, Pittsburgh Pa., March 1982.

Fritz, John., *The John Fritz Medal: Medalists 1902-1947*. Biographies of medallists 1948-1972. (private publication)

From immigrant to inventor, by Michael Pupin. Charles Scribner's Sons, 1926.
(M. Pupin was president of AIEE)

Geometric programming, by Richard J. Duffin, Elmore L. Peterson, Clarence M. Zener. John Wiley & Sons, Inc., 1967. (Westinghouse author)

Box 187

Gulbransen Earl A., Collected papers, Vol. I, II, and III. Westinghouse Electric Corp., 1974.

Henry Ford Museum, by Henry Ford Museum Staff. New York: Crown Publishers, 1972.

Historic Hydro-Electric Developments at Niagara Falls: An Address by Edward Dean Adams. New York, 1926.

History of strength of materials: with a brief account of the history of theory of elasticity and theory of structures, by Stephen P. Timoshenko. McGraw-Hill, 1953. (Westinghouse author)

History of electric light, by Henry Schroeder. Smithsonian Institution, 1923. Smithsonian Miscellaneous Collections vol 76, no 2. (Publication 2717)

How to Meld 29 Metals, by Charles H. Jennings. Pittsburgh: Westinghouse Electric & Manufacturing Co., 1937.

The Induction motor and other alternating current motors: their theory and principles of design, by B.A. Behrend. McGraw-Hill, 1921. (signed copy)

Induction motor practice: a designing engineer brings his experience to operating men and students in the solution of practical problems involving induction motor characteristics, by A.M. Dudley. 1st ed. McGraw-Hill, 1928. (Westinghouse author)

Industrial Electronics: A Laboratory Manual for Education Institutions. Westinghouse Electric and Manufacturing Co., 1945.

Box 188

Industrial robots: volume I Fundamentals, ed. William R. Tanner. Society of Manufacturing Engineers, 1979.

Industrial robots: volume II Applications, ed. William Tanner. Society of Manufacturing Engineers, 1979.

Industrial stroboscopy, by Gilbert Kivenson. Hayden Book Company, 1965. (Westinghouse author)

The Internal combustion engine: Volume I Slow-speed engines, by Harry R. Ricardo. Blackie & Son Limited, 1922.

The Internal combustion engine: Volume II High-speed engines, by Harry R. Ricardo. Blackie & Son Limited, 1927.

International Control of Atomic Energy, *First Report of the United Nations: Atomic Energy Council to the Security Council, December 31, 1946*. Washington, D.C.: United States Print Office.

International Control of Atomic Energy, *Growth of a Policy: Informal Summary Record of the Official Declarations and Proposals Relating to the International Control of Atomic Energy Made between August 6 and October 15, 1946*. Washington, D.C.: United States Print Office.

International Control of Atomic Energy, *Scientific Information Transmitted to the United Nations Atomic Energy Commission, June 14 to October 14, 1946*. Washington, D.C.: United States Print Office.

International Electrical Congress, Chicago, August, 1983. *Proceedings*. American Institute of Electrical Engineers, 1984.

Kaufman, Howard N., *Selected papers of Howard N. Kaufman* collected on the occasion of his retirement from Westinghouse Electric Corporation, February 1986.

Lamme, Benjamin Garver, *Benjamin Garver Lamme: electrical engineer, an autobiography*. New York: Putman and Sons, 1926.

Leven, Milton M., *Selected papers of Milton M. Leven* published on the occasion of his retirement from Westinghouse Electric Corporation Research Laboratories, Pittsburgh, Pa, June 24, 1976.

Lighting a Revolution: The beginning of electric power, by Bernard S. Finn. National Museum of History and Technology, 1979. (Title page: Edison: lighting revolution, the beginning of electric power)

Lightning, by Martin A. Uman. McGraw-Hill, 1969. (Westinghouse author)

Magic dials: The story of radio and television, by Lowell Thomas. Polygraphic Company of America, 1939. (Westinghouse Science Lending Library book)

The Making of a profession: a century of electrical engineering in America, by A. Michael McMahon. New York, IEEE Press, 1984.

Managing product cost improvement. Prepared by Headquarters Manufacturing, January, 1961. Pittsburgh, PA: Westinghouse Electric Corporation, 1961.

Manjoine, Michael J., *Selected papers of Michael J Manjoine* Published on the occasion of his retirement from the Westinghouse Electric Corporation Research and Development Center, Pittsburgh Pa, April 26, 1984.

Math and aftermath, by the Scientists of the Westinghouse Research Laboratories. New York: Walker and Company, 1965. (Westinghouse Search book)

Mechanical springs, 2nd ed, by A.M. Wahl. McGraw-Hill, 1963. (Westinghouse author)

Mechanical vibrations, by J.P. Den Hartog. 4th ed. McGraw-Hill, 1956. (Westinghouse author)
Based on course at Westinghouse design 1926-1932.

Mechanics, by J.P. Den Hartog. Dover Publications, 1948.

Men of science: Fifteen stories of scientific advances and the men who helped make them.
Pittsburgh, PA: Westinghouse Electric Corporation, 1946. (Publication of Westinghouse School Service)

Box 189

Mitsubishi Electric Corporation: History of Mitsubishi Electric—The 60th Anniversary of Its Foundation. Mitsubishi Electric Corporation, 1982. (Asian characters) (Gift to G.F. Mechlin from N. Katayama President of Mitsubishi)

Modele Matematyczne A RzeczyWistosc. Warsaw: Państwowe Wydawnictwo Naukowe, 1969.
(in Polish, translation of *Math and Aftermath*)

National Historic Mechanical Engineering Landmarks, by Richard S. Hartenberg. The American Society of Mechanical Engineers, 1979. (Sponsored by the History and Heritage committee)

Nauka O Nauce metody objasniania zjawisk fizycznych. Warsaw: Państwowe Wydawnictwo Naukowe, 1968. (in Polish, translation of *Science of science: Methods of interpreting physical phenomena*)

Niagara Power: History of the Niagara Falls Power Company 1886-1918, evolution of its central power station and alternating current system, by Edward Deans Adams. New York: Bartlett Orr Press, 1927. (Vol. I – “History and Power Projects”, Vol. II- “Construction and Operation.”)

Non-stoichiometric compound, ed. Lyon Mandelcorn. Academic Press, 1964. (Westinghouse editor)

Optical physics, by Max Garbuny. Academic Press, 1965. (Westinghouse author)

Perspectives on radio and television, telecommunication in the United States. 3rd ed. By Leslie F. Smith. New York: Harper & Row, 1990.

Peterson, Rudolph, *Selected papers of Rudolph Peterson* collected on the occasion of his retirement from Westinghouse Electric Corporation Research Laboratories November 22, 1966.

Photocells and their Application, by V.K. Zworykin and E.D. Wilson. New York: John Wiley & Sons, 1930.

Photoelasticity: The selected scientific papers of M.M. Frocht, ed. M.M. Leven. New York: Pergamon Press, 1969. (Westinghouse editor)

Plasticity: A mechanics of the plastic state of matter, by A. Nadai. McGraw-Hill, 1931. (Westinghouse author)

Power: The magazine of power generation and plant energy systems, A century of power progress. 100th Anniversary Issue, 1882-1982. McGraw-Hill, 1982.

Power capacitors. 1st ed, by R.E. Marbury. New York: McGraw-Hill, 1949. (Westinghouse author)

Principles and practices of network radio broadcasting: testimony of David Sarnoff, before the Federal Communication Commission, Washington, D.C., Nov 1938. RCA Institute Technical Press, 1939.

Principles of business writing, by T.H. Bailey Whipple. Pittsburgh: Westinghouse Technical Night School Press, 1924.

The Problem solvers: people who turned problems into product, by Nathan Aaseng. Minneapolis: Lerner Publications Company, 1989. (Juvenile literature)

Productivity improvement, by Donald C. Burnham. Columbia University Press, 1973. (Westinghouse Chairman) (1972 Benjamin F. Fairless Memorial Lecture)

Properties and Testing of Magnetic Materials, by Thomas Spooner. New York: McGraw-Hill, 1927. (Westinghouse author)

Box 190

RCA: five historical views. RCA Corp, 1938-1971. (A collection of five articles)

Recent advances in optimization techniques, eds. Abraham Lavi and Thomas P. Vogl. John Wiley & Sons, 1966. (Westinghouse editor) (Proceedings of a symposium in Pittsburgh, 1965)

Relay handbook. 1st ed. Prepared by National Electric Light Association. New York: National Light Association, 1926.

Residential Lighting, by Myrtle Fahsbender. New York: D. Van Nostrand, 1947. (Westinghouse author)

Rewinding Small Motors: Practical details of repair shop practices with step-by-step procedure for rewinding all types and designs of fractional horsepower direct and alternation current motors, by Daniel H. Braymer and A.C. Roe. McGraw-Hill Book Company, Inc., 1925.

The Rise of the electrical industry during the nineteenth century, by Malcolm MacLaren. Princeton University Press, 1943.

Risk and technological innovation: American manufacturing methods during the nineteenth century, by Paul Strassmann. Ithaca, Cornell University Press, 1956.

Robotics: the marriage of computers and machines, by Ellen Thro. New York, Facts on File, 1993.

Saturday science, by the Scientists at the Westinghouse Research Laboratories. E.P. Dutton, 1960. (Westinghouse Search book)

Science and Life in the World, by the Westinghouse Educational Foundation for the George Westinghouse Centennial Forum. New York: Whittlesey House, 1946.

Volume I: Science and Civilization · The Future of Atomic Energy

Volume II: Transportation- A measure of civilization · Light, Life, and Man

Volume III: A Challenge to the World

Science by degrees: temperatures from zero to zero, by Scientists of the Westinghouse Research Laboratories. Walker and Company, 1965. (Westinghouse Search book)

The Science of science: methods of interpreting physical phenomena, by the Scientists of the Westinghouse Research Laboratories. Walker and Company, 1965. (Westinghouse Search book)

Seeking and finding science talent: A 50 year history of the Westinghouse Science Talent Search, by Tom K. Phares. Westinghouse Electric Corporation, 1990.

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Siedem Stanow Materii. Warsaw: Państwowe Wydawnictwo Naukowe, 1970. (Translation of *Seven States of Matter*, a Westinghouse Search book)

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Strength of materials: Part I- Elementary theory and problems, by S. Timoshenko. 3rd ed. Princeton, N.J.: D. Van Nostrand, 1955.

Strength of materials: Part II- Advanced theory and problems, by S. Timoshenko. 3rd ed. Princeton, N.J.: D. Van Nostrand, 1958.

Stress concentrations design factors: Charts and relations useful in making strength calculations for machine parts and structural elements, by R.E. Peterson. New York: John Wiley and Sons, 1953 (Westinghouse author)

Structure Reports for 1958, vol. 22, W.B. Pearson, ed. N.V.A. Oosthoek's Uitgevers Mij Utrecht, 1968. (signed by A. Taylor section editor and Westinghouse author)

Submarine geography off Southern California, by Harold Palmer. Lorrin L. Morrison, 1970. (Westinghouse author)

Symmetrical components as applied to the analysis of unbalanced electrical circuits, 1st ed., by C.F. Wagner and R.D. Evans. McGraw-Hill, 1933. (Westinghouse authors)

Taylor, Abraham. *Collected publications presented in submission for the degree of Doctor of Science in the Victoria University of Manchester*, 1966. (signed, Westinghouse author)

Television in diagnostic radiology. Compiled by Robert D. Moseley, Jr. and John H. Rust. Birmingham, A.L.:Aesculapius Publishing, 1969.

Tesla, Nikola: Complete patents, Vols. I-II. Compiled by John T Ratzlaff. Tesla Book Co, 1979.

The Tesla Journal: An International Review of the Sciences and Humanities. Nos. 2-5. Published in 1982-1987.

Theory of elastic stability, 2nd ed., by Stephen P. Timoshenko and James M. Gere. McGraw-Hill, 1961. (Westinghouse author)

Theory of elasticity, 1st ed., by S. Timoshenko. McGraw-Hill, 1934. (Westinghouse author)

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Theory of elasticity, 3rd ed., by S.P. Timoshenko and J.N. Goodier. McGraw-Hill, 1970.
(Westinghouse author)

Theory of flow and fracture of solids, by A. Nadai. McGraw-Hill, 1950. (Westinghouse author)

Theory of plates and shells, 2nd ed., by S. Timoshenko. McGraw-Hill, 1959. (Westinghouse author)

Theory of structures, 2nd ed., by S.P. Timoshenko and D.H. Young. McGraw-Hill, 1965.
(Westinghouse author)

Thermoelectricity: science and engineering, by Robert R. Heikes and Roland W. Ure, Jr. New York: Interscience Publishers, 1961. (Westinghouse authors)

Thyristor phase-controlled converters and cycloconverters, by B.R. Pelly. Wiley-Interscience, 1971. (Westinghouse author)

Transformers for the electric power industry, by Richard L. Bean, Nicholas Chackan, Harold R. Moore and Edward C. Wentz. McGraw-Hill, 1959. (All Westinghouse authors)

Understanding the Atom. A series of books by the United States Atomic Energy Commission, Division of Technical Information: Oak Ridge, TN.

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Atoms, nature, and man, man-made radioactivity in the environment (1968)

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Nuclear Power Plants (1969)

Nuclear Reactors (1969)

Our Atomic World: the story of atomic energy (1969)

Understanding lightning, by Martin A. Uman. Carnegie, PA: Bek Technical Publications, 1971.
(signed, Westinghouse author)

Velocity of Light: Experimental determination of the velocity of light, by Albert A. Michelson. Handwritten copy- no publishing information available. (Book is exact copy of Michelson's handwritten report of his proceedings and findings of the experiments he conducted at Annapolis Naval Academy, 1878.)

Vibration problems in engineering, 3rd ed., by S. Timoshenko. D. Van Nostrand, 1955.
(Westinghouse author)

Wahl, Arthur M., Selected papers of Arthur A. Wahl, published on the occasion of his retirement from the Westinghouse Electric Corporation, November 22, 1966. Pittsburgh, Westinghouse Research Laboratories.

Westinghouse Centennial 1886-1986: Baltimore Divisions and Contracts Management- A History, by Lee D. Barron, Jr. Barrons Ltd, 1985.

Westinghouse Code, 1st ed., revised. East Pittsburgh: Westinghouse Department of Publicity, 1911. (Code for telegraph and telegram messages.)

Westinghouse Defense: Facilities and Personnel. Baltimore: Westinghouse Electric Corp., 1984.

Westinghouse Engineer, Centennial edition (July 1986)

Westinghouse, George, *George Westinghouse: his life and achievements, 1846-1914*. Westinghouse Electric Corporation, 1946.

Westinghouse, George, *George Westinghouse: scenes from a great life*, from the George Westinghouse Centennial 1846-1946. Westinghouse Electric Corporation, 1946.

Westinghouse, George, George Westinghouse Commemoration: a forum presenting the career and achievements of George Westinghouse on the 90th anniversary of his birth. The American Society of Mechanical Engineers, 1937.

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Westinghouse Library Biography/Bibliography files. Compiled by the library staff, 1961.

Westinghouse Organization and Products: 11th ed. Published by the Education Department of Westinghouse, 1980.

Westinghouse Organization and Products: 10th ed. Published by the Education Department of Westinghouse, 1977.

Westinghouse Organization and Products: 9th ed. Published by the Education Department of Westinghouse, 1974.

Westinghouse Organization and Products: 8th ed. Published by the Education Department of Westinghouse, 1970.

Westinghouse Organization and Products. Published by the Education Department of Westinghouse, 1967.

Westinghouse people make it happen at Large and Waltz Mill. Prepared by Large and Waltz Mill Westinghouse Centennial History Committee, 1986. Published for Westinghouse Centennial 1986.

White collar or noose? The occupation of millions, by Leo F. Bollens. New York: North River Press, 1947. (signed, author was President of Westinghouse Independent Salaried Unions)

Wiazania Chemiczne. Warsaw: Państwowe Wydawnictwo Naukowe, 1970. (in Polish, translation of *The binding force*, by D Berg et. al.) (A Westinghouse Search book)

Winding alternating-current machines: a book for winders, repairmen, and designers of electric machines, by Michael Liwschitz-Garik. Datarule Publishing Company, 1950.

World energy and the oceans, by William E. Shoupp. MIT Sea Grants Program, 1973. (2nd Annual Sea Grant Lecture, MIT Oct, 1973.)

X-ray metallography: an introduction, by A Taylor. London: Chapman & Hall, 1952. (signed, Westinghouse author)

X-Ray metallography, by A. Taylor. New York: John Wiley & Sons, 1961. (Westinghouse author)

Series XV: World War II (1941-1995)

This series is housed in 10 boxes and separated into two sub-series. The Topical sub-series is arranged alphabetically by subject folder headings. These materials document Westinghouse Electric's effort to educate their employees about health, production, and conservation issues through company published guide books and programs. It includes information about clubs and campaigns organized to promote this information, such as the Health for Victory Club and the More Kilowatt Hours for Victory campaign. Posters for this sub-series are stored in oversize drawers.

The second sub-series consists of reports on many division's wartime activities. These reports were requested from all divisions in 1946 to document the contribution of Westinghouse to the Allied war effort. They were compiled and called "Westinghouse in World War II." The information in these reports is generally of a historical, rather than technical, nature.

Subseries: Topical		
Box 194		
Folder 1	Articles	1943-1995
Folder 2	Advertisements	1943-1944
Folder 3	Bond envelope	undated
Folder 4	Conservation Plan	1943
Folder 5	Electrical Products (shortages, production	

	Requirements, and maintenance)	1941-1944
Folder 6	Employee Memorial Certificate and Letter	1944
	Health for Victory Club	
Folder 7	Articles	1942
Folder 8	Canning and Nutrition Guides	1943-1944
Folder 9	Meal Planning Guides	1942-1943
Folder 10	Meal Planning Guides	1944
Folder 11	"More Kilowatt Hours for Victory"	1942-1943
Folder 12	National Defense Research Committee Report	1945
Folder 13	"Or We Shall Die" Pledge	c1942
Folder 14	Pamphlets	1942-1945
Folder 15	Plant Protection Manual	c1943
Folder 16	Plastic Helmet Liner Production Report	1946
Box 195		
Folder 1	Postwar Residential Market	1944
Folder 2	Production Awards	1942-1944
Folder 3	Production Information	1945
Folder 4	Post-War Employment Statement	1945
Folder 5	Quotes for Press	1940
Folder 6	Rosie the Riveter (Rose Will Monroe)	1994
Folder 7	Tank Gun Stabilizer Articles	1944-1945
Folder 8	Westinghouse Magazine (extra copies. See Publications series- Series 10- for more.)	1944-1945
Subseries: Reports		
	Accounting and Treasury	
Folder 9	Vol. 1	
Folder 10	Vol. 2	
Box 196		
Folder 1	Vol.3	
Folder 2	Vol. 4	
Box 197		
Folder 1	Vol. 5	
	Appliance Division, Mansfield OH	
Folder 2	Vol. 1	
Folder 3	Vol. 2	
Folder 4	Vol. 3	
Box 198		
Folder 1	Vol. 4	
Folder 2	Aviation Gas Turbine Division	
Folder 3	Bryant Electric Co., Bridgeport, CT	
Folder 4	Central Engineering and Service Division	
Box 199		
	District Engineering and Service Dept.	
Folder 1	Vol. 1, c.1	

Folder 2	Vol. 1, c.2
Box 200	
Folder 1	Vol. 2, c.1
Folder 2	Vol. 2, c.2
Box 201	
Folder 1	Vol. 2, c.3
	District Manufacturing and Repair Dept.
Folder 2	Vol. 1, c.1
Box 202	
Folder 1	Vol. 1, c.2
Folder 2	Vol. 2
Box 203	
Folder 1	East Pittsburgh Divisions Vol. 4
Folder 2	Eastern District Sales Dept.
Folder 3	Eastern Engineering and Service Division
	Elevator Division, Jersey City, NJ
Folder 4	Vol. 1
Box 204	
Folder 1	Vol. 2
Folder 2	Engineering Laboratories and Standards Dept.
Folder 3	Factory Service Division
Folder 4	Gearing Division
Box 205	
Folder 1	Headquarters Manufacturing Division
Folder 2	Headquarters, Purchases and Traffic Dept.
Folder 3	Industrial Relations
Folder 4	Industry Sales
Box 206	
Folder 1	International Company Lamp Division
Folder 2	Volume 1
Folder 3	Volume 2
Folder 4	Law and Patent Dept.
Folder 5	Lighting Division
Box 207	
Folder 1	Marine Propulsion Equipment, vol. 5 Merchandising Division, East Springfield, MA
Folder 2	Volume 1
Folder 3	Volume 2
Folder 4	Volume 3
Box 208	
Folder 1	Volume 4 Merchant Marine Division
Folder 2	Central Methods
Folder 3	Engineering Dept.

Box 209

Folder 1 Heavy Manufacturing
Folder 2 Industrial Relations Volume 1

Box 210

Folder 1 Industrial Relations Volume 2
Folder 2 Industrial Relations Volume 3
Folder 3 Light Manufacturing

Box 211

Folder 1 Order Service Dept.
Folder 2 Production
Folder 3 Purchasing
Folder 4 Purchasing, c.2
Folder 5 Quality Control
Folder 6 Service Dept.
Folder 7 Works Engineering Dept.

Box 212

Meter Division
Volume 1

Box 213

Folder 1 Volume 2
Folder 2 Exhibit 2

Box 214

Motor Division
Volume 1
Volume 2
Volume 3
Naval Ordinance Division
Canton, OH

Box 215

Folder 1 Center Line, MI
Naval Ordinance Plant
Folder 2 Louisville, KY, copy 1
Folder 3 Louisville, KY, copy 2
Folder 4 Printing Division
Folder 5 Public Relations

Box 216

Radio and X-Ray Divisions

Folder 1 Book 1
Folder 2 Volume 1
Folder 3 Volume 2
Folder 4 Volume 3

Box 217

Research Laboratories
Folder 1 Volume 1
Folder 2 Volume 2
Folder 3 Small Motor Division

	South Philadelphia Works
Folder 4	Volume 1
Box 218	
Folder 1	Volume 2
Folder 2	Volume 3
Folder 3	Volume 4
Folder 4	Volume 1-4
Box 219	
	Switchgear and Control Division
Folder 1	Volume 1, copy 1
Folder 2	Volume 1, copy 2
Folder 3	Volume 2
	Transformer Division
Folder 4	Volume 1
Box 220	
Folder 1	Volume 2
Folder 2	Volume 3
	Transportation and Generator Division
Folder 3	Volume 1
Folder 4	Volume 2, copy 1
Box 221	
Folder 1	Volume 2, copy 2
	War Production Progress Reports
Folder 2	Volume 1 (1940-1942)
Folder 3	Volume 2 (1942-1943)
Box 222	
Folder 1	Washington D.C. Office
Folder 2	Westinghouse Electric Supply Co. (WESCO)
Folder 3	Westinghouse Radio Stations
Folder 4	Miscellaneous Divisions

Addendum I: Separations to HSWP Library

Books:

The ABC of the Electric Car (c.2)

Application and Equipment of the Safety Car (c.2)

Benjamin Garver Lamme: A Tribute (Ohio State University Monthly, October 1924)

My Best Cartoons of 1946 by Cy Hungerford, reprinted from the Pittsburgh Post-Gazette.

The Cleveland Railway (c.2)

The Development of the Electric Locomotive (c.2)

Early Electrical Machines by Bern Dibner (Norwalk, CT: Burndy Library, 1957)

Electric Locomotives by David Leonard Barnes. Philadelphia: J.B. Lippincott Co., 1896.

Electric Railway Transportation by Westinghouse Electric and Manufacturing Co. East
Pittsburgh: Westinghouse Electric and Manufacturing Co., 1922.

Electricity as an Aid to Agriculture by Guy E. Tripp. New York: Nickerbocker Press, 1926.

Electricity in Heavy Railway Service by Westinghouse Electric and Manufacturing Co. East
Pittsburg: Westinghouse Electric and Manufacturing Co., 1904.

George Westinghouse Museum Cookbook, 1990

A History of the Development of the Single-Phase System (c.2)

Home Wiring Handbook (Pittsburgh: Westinghouse Electric and Manufacturing Co., 1945)

Loetzer's Handbook of Practical Rules and Tables for Machinists and Engineers (Sayre,
PA: C.E. Loetzer, 1913)

New York World's Fair 1939 Incorporated: Board of Directors Minutes (vol.1- Jan. to
Mar. 1939)

Railroad Electrification by Westinghouse Electric and Manufacturing Co. East Pittsburgh:
Westinghouse Electric and Manufacturing Co., 1914

Railroad Electrification and the Electric Locomotive (New York: Simmons-Boardman
Publishing Co., 1923)

*Report by the Supreme Commander to the Combined Chiefs of Staff on the Operations in Europe
of the Allied Expeditionary Force: 6 June 1944 to 8 May 1945* (Washington, D.C.:
United States Government, 1945)

Review of Electric Railway Problems by Westinghouse Electric and Manufacturing Co. East
Pittsburgh: Westinghouse Electric and Manufacturing Co., 1921.

Results of Electrification by Westinghouse Electric and Manufacturing Co. East
Pittsburgh: Westinghouse Electric and Manufacturing Co., 1915.

The Single-Phase Railway System (c.2)

The Story of Electricity (vol. 1) (New York: The Story of Electricity Company, 1919)

Train Operation for City, Suburban, and Interurban Service by Westinghouse
Electric and Manufacturing Co. East Pittsburgh: Westinghouse Electric and
Manufacturing Co., 1914.

Transportation Hints by Westinghouse Electric and Manufacturing Co. East
Pittsburgh: Westinghouse Electric and Manufacturing Co., 1924.

Voilà [cookbook] (National Association of Electrical Distributors Educational Foundation, 1979)

The Westinghouse Companies in the Railway and Industrial Fields (c.2)

The Westinghouse Electric Company, by the Westinghouse Electric Company, 1888 (4)

The Westinghouse Electric Company, by the Westinghouse Electric Company, 1889 (1)

Westinghouse Electrification Data (c.2)

Westinghouse Engineer: Mid-Century Review and Forecast (Chicago: Lakeside Press, 1950)

Westinghouse Strike of 1955-1956 by Sam Hoenstine (unpublished paper, Fall 1984)

Westinghouse Views (Pittsburgh: Westinghouse Group?, 1906)

Wilmerding: Silver Anniversary booklet (August 22- 28, 1915)

Women Electrical Workers at Westinghouse Electric Corporation's East Pittsburgh Plant, 1907-1945 by Linda Nyden (M.A. thesis, University of Pittsburgh, 1975)

Works of Westinghouse Electric and Manufacturing Company: Their Industrial and Sociological Aspect (Pittsburgh?: Westinghouse E&M Co., 1904)

Your Westinghouse Refrigerator: Its Care and Use (Westinghouse Electric Corporation, 1947)

Journals:

The Electric Journal (Vol. XXVII- Vol. XXXIV bound, 1930-1937 except 1934) plus index 1904-1938

The Electrical World (Vol. XLV- Vol. L, 1905-1907)

The Oscillator (1988-1991)

Westinghouse SURE newsletter (1996-1997)

Addendum II: Westinghouse educational programs

EXTENSION COURSES

The Westinghouse East Pittsburgh works was a large manufacturing complex. In order to keep the work force up to date on current manufacturing technology, Westinghouse ran "extension courses". The topics changed over the years as technology changed. Whereas in the early 1940s there were courses for Blacksmith and Bricklayer, by 1960 the courses were for Machinist, Machine Tool Operator, Tool Maker, Printer, Electrical Tester, Welder, Pattern Maker, etc. Each of the students was given a grade after the course, and this information was

meticulously logged. Some of the grade books are in the archives. These courses were used from approximately 1936-1978.

CASINO/WESTINGHOUSE TECHNICAL NIGHT SCHOOL

The Casino Technical Night School was started in 1902 by the Westinghouse Electric and Manufacturing Company (WEMCO), the Westinghouse Air Brake Company (WABCO), and the Westinghouse Machine Company (WMC) to provide technical and vocational training for their employees. The school was named after the restaurant building in which it first held classes. Women were admitted in 1910. It eventually became a formal educational institute run by WEMCO, and in 1920 changed its name to the Westinghouse Technical Night School (WTNS) (although there were always students from many other companies). Classes were held at Turtle Creek High School from 1906 until the school closed. Courses were taught by both senior Westinghouse employees and outside educators. Programs covered engineering fundamentals, accounting, tool design, office machines, etc. The WTNS was in existence until 1973 when the rise of community colleges began to address the same need.

WESTINGHOUSE GRADUATE STUDENT PROGRAM

The Westinghouse Graduate Student Program (GSP) was established specifically for the purpose of hiring new college graduates in an organized fashion to meet the needs of the entire company. A central corporate department hired the graduates into the GSP, conducted general company orientation programs and technical seminars for the new hires, and then attempted to match the new hires with compatible jobs by allowing the new hires to go on a series of temporary work assignments throughout the company.

WESTINGHOUSE TECHNICAL NIGHT SCHOOL (1902-1973)

In 1902, two senior representatives from each of the Westinghouse Electric and Manufacturing Company, the Westinghouse Air Brake Company, and the Westinghouse Machine Company met to discuss "...operating an eating house, a place of amusement and a night school" for the benefit of their employees. Because their first meeting was held in the Casino Restaurant building, they became known as the Casino Committee.

The purpose of the school they formed, which was called the Casino Technical Night School, was to provide vocational and technical training for their employees, allowing them to assume jobs with greater responsibility. The first class was held in September 1902, with 20 students. By the middle of 1903, the Casino Technical Night School had 115 students, with classes 2 nights per week for 2 hours per night. By 1904, the school was holding courses every night and had moved into a school building in Turtle Creek. With 233 students, the school then moved into the Turtle Creek High School building in 1906 and had its first graduating class. It remained at the Turtle Creek High School until it closed in 1973.

The first courses offered were part of a 3-year program in engineering. This program was later expanded to a 4-year program. A Preparatory Department was added in 1904, offering a 1-year program to help students meet the requirements, especially in math, of the Engineering

Department. From 1904 to the mid-1930s, a Foreign Department was added to teach English to immigrants. In 1922, an Accounting Department was formed with a 2-year program which eventually grew to a 4-year program.

The school soon had its own student publication, *The Casino Tech Bulletin* (which later became *The Tech Owl*). There were also basketball teams for men and women, an orchestra, and an active Alumni Association.

By 1920, a Board of Directors consisting of senior managers of the Westinghouse Electric and Manufacturing Company ran the school, and the name was officially changed to the Westinghouse Technical Night School to better reflect its true structure. Two years later, the Westinghouse Air Brake Company, the Union Switch and Signal Company, and Mine Safety Appliances signed cooperative agreements with the school allowing their employees to attend. The part-time faculty consisted of senior employees of Westinghouse and outside educators.

Although a Women's Department was formed in 1910 (with courses in stenography, music, and home economics), women also attended courses in other departments. The first woman graduated from the Accounting Department in 1927 and the Engineering Department graduated its first woman in 1930. The Women's Department became the Commercial Department in 1933, adding courses in secretarial skills and office machines.

By 1953, the school not only had students from the above-mentioned companies, but also from companies such as U.S. Steel and Duquesne Light, along with a few unemployed high school graduates.

The Westinghouse Technical Night School closed in 1973, with the rise of community colleges and neighborhood branches of local universities. During its life, it had well over 20,000 students in its varied programs, with more than 2,700 receiving "degrees" from its 3 and 4-year technical programs.

THE WESTINGHOUSE GRADUATE STUDENT TRAINING PROGRAM

Hiring at Westinghouse Electric Corporation was done through a centralized corporate function. At various times this group was called the Education Department, the Graduate Education Department, the Education & Development Department, etc. Hereinafter it will be referred to as the Education Dept.

Each year the Education Dept. would survey the various departments and divisions in the corporation to determine their need for new employees. For certain openings, the Education Dept. would schedule interviews on college campuses, evaluate the candidates, and make the final job offers. For other jobs, the Department also coordinated the hiring of experienced personnel for "direct placement." Anyone who had more than 1 year of working experience, who had a Ph.D., or who was needed to fulfill a unique job requirement was hired through Direct Placement. In this case, the new hire went directly to a specific job, and was immediately on the payroll of that department or organization.

More common was an offer to join Westinghouse on the Graduate Student Training (GST) program. This program was limited to recent college graduates and enabled Westinghouse to hire new employees for undefined positions until they found a job that corresponded to both their skills and their expectations. Admittance to this program therefore ensured recent college graduates a job at Westinghouse Electric once the training program was completed. The Westinghouse Education Center, located on Brinton Road in Wilksburg, PA, was opened in 1950, and became the hub for this activity from that time forward.

The first step in the GST program was a one-week orientation at the Education Center. During the peak years of hiring there could be as many as 100 new graduates starting during a given week and attending this seminar together. As part of this orientation, all "graduate students", as they were called, were given a copy of a "Westinghouse Organization and Products" book, which contained an overview of the entire corporate structure and all the products and services offered by Westinghouse. This book also included a future outlook for each product/service and a description of opportunities for new hires in each of the divisions. This book was a useful reference as the graduate students started their temporary assignments at different locations. The book was updated approximately every 3 years. By comparing the organization charts in the books, and noting the divisions added or dropped, one can get a sense of the many changes in Westinghouse over the years.

After the initial one-week orientation, the graduate students were sent out on temporary work assignments (lasting approximately 5 weeks) to the parts of the company that had previously indicated a need for new employees. The graduate students were categorized by function (engineering, manufacturing, marketing, finance, management systems, industrial relations, purchasing), with assignments chosen to match their general field of expertise. At the end of each assignment, if the manager of the group or department thought that the graduate student was a match to the group's needs, a permanent job offer would be made. However, the graduate student was under no obligation to accept the offer, and could turn it down in favor of another temporary assignment. Sometimes, a deal could be made where a job offer would be held open while the student completed another assignment. The Education Dept. staff recommended that the graduate students not accept a permanent job after their first assignment because it did not give them an opportunity to really understand all the opportunities that were available. While the average stay on the GST program before accepting a permanent position within the Corporation was probably 3 assignments/5 months, some people lasted on the program for a year.

The Education Dept. also ran several 1 and 2-week seminars on specific subjects (engineering, marketing, etc.) for all graduate students in that functional area. These seminars were also held at the Education Center, and were open to people still on the program in addition to those that had accepted a permanent position in the last year.

The Education Department Annual Reports from 1945-1961 show the following history of hiring at Westinghouse:

<u>Year</u>	<u>Graduate Student Program</u>	<u>Direct Placement</u>	<u>Total</u>
1945	91	13	104**
1946	567	19	586
1947	271	28	299
1948	618	81	699
1949	279	78	357
1950	347	100	447
1951	715	337	1,052
1952	486	246	732
1953	458	238	696
1954	420	208	628
1955	476	124	600

1956	785	185	970
1957	802	146	948
1958	396	17	413
1959	423	65	488
1960	431	66	497
1961	418	89	507

**limited by WWII military enrollment

Addendum III: Westinghouse Order of Merit Award Essays

Aberle, Earl J	1975	DelCoro, Rafael R.	1989	Holmgren, John D.Dr.	
Abrams, Bob	1975	delValle, Angel L.	1989		1977
Alberico, Frank L.	1978	Doering,	1978	Hottinga, Jan	1977
Andrews, H. N.	1978	Dubow, Philip		Hulm, Dr. John K.	1977
Armstrong, D. John		Eagan, Robert O.	1976	Humphrevelle, Thomas N.	
Bakos, Frank R.	1977	Engel, Joseph C. Dr.	1993		1977
Baldwin, Clarence H.	1978	Fax, David H.	1970	Jackson Hagan L.	1981
Bales, Walter H.	1980	Field, J. E.	1980	Jacobson, Raymond	1975
Beck Jr., George	1975	Fittkau, Carl	1975	Johnson, Max T.	1979
Belsky, Philmore	1980	Foster, Newton C.	1977	Johnson, Sigvold O.	1977
Bergstrom, Arnold B	1979	Frederickson, Ralph	1977	Kahler, Robert D.	1993
Black, Harold C.	1980	Fuller Jr., Thomas	1978	Kennedy, W. R.	1991
Blackmon, John N.	1980	Furfari, F. A.	1979	Keogh, Thomas J.	1993
Braun, Herman J.	1978	Gabriel Jr., Julius M	1978	Kirk, George J.	1990
Brecher, Seymour	1980	Gallagher, James P.	1978	Koste, Byron R.	1989
Breitinger, Bob	1975	Galper, Milton	1977	Kruzic, Z. John	1977
Bremner, Lawrence M		Gaskins, Richard C.	1994	Kuln, Frank G.	1977
1980		Goehring Reese P.	1993	Leblang Joseph J.	1979
Bryant, H. Harold	1980	Died		Lego, Paul E.	1977
Buntemeyer, Werner	1979	Goff, James R.	1980	Leonard, Vaile	1991
Byron, Ruth H.	1989	Goldberg, Ivan	1991	Lever, Lewis	1977
Caldwell, ?	1979	Gregory, Edward P.	1977	Love, Roy M.	1978
Campbell, Barbara		Groves, Jack	1990	Mahon, Stephen W.	1990
Chase, A. B.	1975	Gyugyi, Laszlo	1992	Marous, John C.	1977
Cherry, S. John	1976	Haest, Martin J.	1980	Martin, Kenneth R.	1977
Clark, Gary M.	1994	Hantho, Olive R.	1978	Matthews, John J.	1976
Collier, Alan R.	1977	Hart, Ronald E.	1977	Metzler, Guy B.	1977
Costello, Thomas P.	1989	Heggs, Eddie V.	1978	Miller, Wilfred D.	1977
Crehan, Earl B.	1979	Hennigan Kenneth W.		Mooney, Jr., David H.	1980
Dakin, Thomas W.	1978	1989		Morrison, Paul E.	1977
Davenport, William S	1977	Herrick, Ruth C.		Mrenna, Steve	1985
Davis, Alan C.	1977	1989		Murphy, Jr., A. J.	1976
Davis, Charles L.	1991	Hofmann, Robert L.	1977	Murphy, William J.	1978
Dearing Martha El	1977			Murray, Harry F.	1977

Murray, Dr. Peter	1989	Russell, Robert Wood	Tedesco, Lynn Ann	1991
Myers, Earl Harry	1977	1980	Thompson, Francis	1976
Nagel, Russell	1990	Salvatori, Romamo	Thompson, Ray F.	1978
Nelkin, Arthur	1977	Sampsell, Albert E.	Thompson, Dr. Wm.	1978
Obley, Ross P.	1979	Scannell, Raymond F.	Tillemans, Francis T.	1976
Onjanow, Nikolaus	1976	Schibler, Martin E.	Tranchon, Robert C.	1989
Paine, Charles D.	1978	Schilling, James E.	Turner, G. C.	1977
Pan, Dr. Paul	1976	Schoonhoven, E. D.	Vasilakis, Mary	1977
Pastor, C. E.	1980	Scorgie, D. G.	Velez, Jose	1977
Petrarca, John A.	1977	Shiring, Paul	Walczak, Donald A.	1977
Pfaff, Carlos	1992	Shott, Harold S.	Wareham, Richard J.	1976
Porter, Dwight J.	1979	Smith, Donald L..	Wearn, James P	?
Pridgen, W, L.	1977	Somers, Dr. Ed. V.	Weems, C. M.	1976
Putman, Dr. Thom.H.	1978	Spindler, Francis E.	Woodruff, Owen J.	1977
Roybal, David D.	1991	Stark, Douglas D.	Woods, Wilbur C.	1979
Rufer, Loretta	1989	Steffenhagen, J. L.	Woodson, Nathaniel	1990
Rush, William T.	1979	Sujan, Shyam G.	Wright, F. Leo	1977
		Sun, Dr. Kuan-Han		1979

Addendum IV: WABCO Employee cards

<u>Name</u>	<u>Start date</u>		
Bevil, Alice Elizabeth	06-28-1937	McCullough, Ray A.	01-26-1925
Bevil, Daniel P.	10-19-1904	McCullough, Raymond	07-09-1948
Bevil, Elizabeth	02-19-1942	McCullough, Thomas	06-19-1916
Bevil, John J.	04-01-1903	McIntire, David F.	10-21-1946
Bevil, Marie T.	10-28-1915	McIntire, Howard	03-27-1912
Bevil, Mary	02-02-1928	McIntire, Joe	09-23-1918
Bevil, Robert	08-05-1901	McIntyre, C. W.	02-01-1926
Bevil, Robert P.	06-19-1916	McIntyre, Charles	03-04-1913
<u>Name</u>	<u>Start date</u>	McIntyre, Charles, Jr.	09-06-1944
Bevil, William J.	08-23-1946	McIntyre, David	08-02-1905
Higby, Mary	03-01-1926	McIntyre, F. J.	09-09-1907
McCloskey, Edward	05-20-1903	McIntyre, F. S.	05-29-1900
McCullough, Drew G.	12-17-1906	McIntyre, Frank	06-17-1947
McCullough, John	07-09-1901	McIntyre, Frank J.	11-19-1915
McCullough, John	01-31-1916	McIntyre, Frank J.	09-06-1946
McCullough, John	03-17-1923	McIntyre, Geo.	03-24-1923
McCullough, John A.	09-20-1906	McIntyre, Guy	02-13-1905
McCullough, John A.	09-16-1946	McIntyre, Hugh	09-07-1897
McCullough, John R.	11-23-1915	McIntyre, James	04-14-1916
McCullough, J.I.	11-13-1906	McIntyre, John	04-03-1924
McCullough, H.L.	11-06-1899	McIntyre, John	06-16-1948
McCullough, P.A.	08-21-1905	McIntyre, John P.	05-25-1953
		McIntyre, Murry M.	10-23-1899

McIntyre, Richard C.	06-13-1910	Sleeth, Samuel D.	03-00-1870
McIntyre, Robt. W.	08-14-1916	Sleeth, Walter P.	07-31-1899
McIntyre, William	01-20-1899	Sleeth, William A.	03-00-1870
McIntyre, William H.	10-08-1918	Thompson, A. M.	02-24-1905
Schoonmaker, Paul	03-04-1903	Thompson, A. W.	05-24-1900
Schoonover, Guy	09-23-1923	Thompson, Alexander H.	07-07-1897
Schoppert, Robt. W.	08-13-1923	Thompson, Alvin Clark, Jr.	09-18-1942
Schorr, August	08-05-1915	Thompson, Anthony	08-11-1937
Schorr, Jack T.	11-23-1915	Thompson, Arnold	04-23-1912
Schott, Carl R.	05- ? - 1884	Thompson, Arthur C.	09-03-1910
Schott, Herbert	08-22-1910	Thompson, Bee	01-28-1913
Schott, Herbert D.	06-12-1945	Thompson, Bella	03-10-1925
Schott, John J.	01-20-1925	Thompson, Benjamin	06-04-1906
Schott, Julius	03-23-1903	Thompson, Benjamin H.	06-08-1923
Schott, Peter W.	01-11-1912	Thompson, C. H.	06-20-1902
Schouer, Anton	01-07-1902	Thompson, C. J.	07-27-1898
Schower, Steve	02-21-1913	Thompson, Carl	06-28-1907
Schrader, J. Wayne	10-21-1918	Thompson, Chas.	06-15-1906
Schrag, Frank J.	10-08-1917	Thompson, Char.	11-08-1906
Schrag, John	06-15-1916	Thompson, Charles	11-16-1909
Schrag, Jos.	08-26-1915	Thompson, Charles	12-19-1904
Schrager, Louis	04-21-1920	Thompson, Chas. E.	06-22-1903
Schrankel, J. C.	05-16-1901	Thompson, Chas. E.	07-07-1897
Schreckengost, Charles	04-29-1918	Thompson, Charles H.	05-27-1916
Schrecongost, Herman G.	06-13-1922	Thompson, Charles L.	09-08-1916
Schreib, William R.	02-11-1914	Thompson, Charles R.	09-21-1916
Schreiber, Erwin	07-28-1929	Thompson, Charles	11-26-1940
Schreiber, Henry J.	07-01-1929	Thompson, Chester H	07-08-1941
Schreiber, Hugo	09-04-1917	Thompson, Clinton	09-21-1911
Schreiber, Jacob A.	11-01-1915	Thompson, Cloyd Davis	12-20-1941
Schreiber, Rudolph	06-27-1913	Thompson, Colin	03-20-1916
Schrengot, Peter	08-21-1915	Thompson, Cummings	01-11-1916
Schreuder, Harald	10-26-1909	Thompson, Curtis L.	01-07-1918
Schriber, Carl	07-20-1911	Thompson, Daniel	06-26-1936
Schrivier, James C.	12-02-1919	Thompson, David A.	10-23-1929
Sleeth, Frank	12-01-1908	Thompson, David F.	02-18-1941
Sleeth, Frank W.	11-30-1915	Thompson, David F.	09-25-1917
Sleeth, James F.	11-14-1905	Thompson, Dorothy D.	10-03-1945
Sleeth, Jennie	11-03-1920	Thompson, E.C.	02-22-1923
Sleeth, J. Hunter	06-25-1875	Thompson, Earl E.	04-19-1948
Sleeth, Hawarth	12-03-1920	Thompson, Ed	08-27-1920
Sleeth, Montgomery	07-01-1901	Thompson, Edgar	12-22-1924
Sleeth, Robert	07-16-1913	Thompson, Edw. E.	01-13-1903
Sleeth, Robert E.	04-00-1870	Thompson, Edwin D.	11-18-1924
Sleeth, Robert L.	06-01-1884	Thompson, Ellsworth	12-28-1915
Sleeth, Roney K.	06-20-1905	Thompson, Emanuel E.	11-10-1915

Thompson, Emil	03-31-1924	Thompson, Howard J.	04-04-1951
Thompson, Ernest	10-18-1917	Thompson, Howard Robert	01-30-1951
Thompson, F. L.	08-14-1912	Thompson, Ira T.	11-21-1901
Thompson, Ferne	12-15-1924	Thompson, J. E.	11-01-1915
Thompson, Ferree	02-25-1941	Thompson, James	05-03-1923
Thompson Frances M.	03-01-1920	Thompson, James	02-12-1906
Thompson, Francis J.	06-19-1918	Thompson, James	07-03-1900
Thompson, Francis M.	01-26-1916	Thompson, James	03-15-1948
Thompson, Frank	08-30-1923	Thompson, James Edward	08-02-1948
Thompson, Frank	11-05-1906	Thompson, James J.	09-02-1924
Thompson, Frank L.	03-25-1907	Thompson, James V.	07-20-1920
Thompson, Frank M.	05-20-1902	Thompson, Jay	11-16-1915
Thompson, Frank P.	06-05-1917	Thompson, Jessie	10-26-1948
Thompson, Fred A.	08-03-1910	Thompson, John	11-23-1890
Thompson, Fred Barnett	02-14-1951	Thompson, John	01-09-1903
Thompson, Fred G.	08-11-1910	Thompson, John	06-20-1905
Thompson, G.E.	07-29-1895	Thompson, John	12-19-1906
Thompson, G. E.	10-24-1923	Thompson, John	06-26-1923
Thompson, G. M.	10-21-1904	Thompson, John Andrew	04-29-1941
Thompson, Geo.	07-22-1909	Thompson, John D.	02-12-1913
Thompson, George	03-06-1905	Thompson, John E.	10-04-1909
Thompson, George	07-24-1906	Thompson, John F.	08-06-1936
Thompson, George	09-23-1907	Thompson, John G.	05-26-1922
Thompson, George	08-17-1920	Thompson, John H.	09-01-1915
Thompson, George A.	02-18-1899	Thompson, John W.	01-24-1898
Thompson, George C.	11-22-1944	Thompson, John Winfield	07-11-1951
Thompson, George H.	06-19-1905	Thompson, Joseph	06-03-1918
Thompson, George J.	07-13-1936	Thompson, Joseph C.	11-18-1946
Thompson, George M.	06-03-1920	Thompson, Jos. J.	12-21-1904
Thompson, Gerard	08-16-1920	Thompson, June Eileen	06-03-1946
Thompson, Gordon Kell	02-16-1925	Thompson, Katherine J.	09-08-1947
Thompson, Grattan W.	04-16-1900	Thompson, Leonard	07-10-1911
Thompson, Haddow J.	10-24-1916	Thompson, Louis	02-18-1916
Thompson, Harry	05-28-1924	Thompson, Loyde L.	09-17-1915
Thompson, Harry	03-06-1900	Thompson, Marian Lucille	08-16-1948
Thompson, Harry A.	06-19-1905	Thompson, Mike	03-28-1906
Thompson, Harry F.	04-03-1916	Thompson, Mildred Ruby	06-01-1948
Thompson, Harry G.	10-12-1915	Thompson, Milton H.	04-03-1902
Thompson, Henery	12-18-1906	Thompson, Murray	09-29-1924
Thompson, Henry	07-29-1918	Thompson, Norma Lee	10-05-1943
Thompson, Henry A.	09-06-1917	Thompson, Norman G.	12-06-1915
Thompson, Herbert N.	06-28-1917	Thompson, O. M.	01-10-1901
Thompson, Homer B.	03-26-1907	Thompson, Ormis Leroy	12-17-1936
Thompson, Homer I.	03-28-1948	Thompson, Oscar F.	11- -1890
Thompson, Homer L.	03-17-1924	Thompson, P. E.	03-05-1923
Thompson, Houston	01-13-1920	Thompson, Ralph William	09-18-1950

Thompson, Ravenell	06-05-1917	Thompson, Wilbert	06-28-1917
Thompson, Raymond	09-17-1926	Thompson, Wm.	06-30-1913
Thompson, Robt.	01-02-1912	Thompson, Wm.	11-10-1917
Thompson, Robt. F.	03-18-1912	Thompson, William	01-25-1912
Thompson, Robert G	12-07-1898	Thompson, William	09-24-1924
Thompson, Robert J.	11-15-1916	Thompson, William	02-19-1930
Thompson, Robert J.	07-02-1943	Thompson, William	07-07-1905
Thompson, Robert W.	01-09-1905	Thompson, William A.	05-04-1906
Thompson, Rubin	05-20-1919	Thompson, William A.	11-11-1922
Thompson, Sadie	09-21-1916	Thompson, William A.	10-19-1950
Thompson, Samuel	05-04-1906	Thompson, William C.	08-08-1917
Thompson, Samuel C.	11-11-1935	Thompson, William Elmer	09-26-1950
Thompson, Sarah E.	11-16-1943	Thompson, William G	12-10-1923
Thompson, Stanley	04-04-1899	Thompson, William J.	05-07-1923
Thompson, T. G.	04-07-1903	Thompson, William L.	05-02-1912
Thompson, Theona Mildred	06-24-1941	Thompson, William Logan	11-02-1907
Thompson, Thos.	?	Thompson, William Melvin	10-17-1950
Thompson, W. A.	03-06-1905	Thompson, William Sanford	05-29-1941
Thompson, Walter	07-02-1900	Thompson, Zarilda McGough	09-25-1922
Thompson, Walter G.	02-11-1902		

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W Box 4

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W Box 6

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Box 2

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Box 3

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Box 5

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Box 7

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Westinghouse Electric Corporation, 1881-1994 (c1920-c1975, bulk dates)

Historical Society of Western Pennsylvania Archives

MSO # 424

7 boxes

Biographical Sketch of George Westinghouse (1846-1914)

The Westinghouse Electric Company was founded in Pittsburgh, Pennsylvania in 1886 by George Westinghouse Jr. George's father, George Westinghouse Sr., owned a machine shop in upstate New York that manufactured agricultural equipment, mill machinery, and small steam engines. George Sr. married Emaline Vedder in 1830 and they resided in Central Bridge, Schoharie County, New York. George Jr. was born there on Oct. 6, 1846, the eighth of ten children. In 1856 the family moved to Schenectady, New York where George attended school. When George was 14, he began working in his father's business after school. He and his father had negotiated a starting wage, but his father gave him opportunities for a raise based on the work he produced. He had a mind inclined to inventing at an early age and at 15 had produced a small rotary engine.

The Civil War began and George enlisted in the Army in 1863. He served in the Infantry and Cavalry from 1863 to 1864 and later joined the Navy as an assistant engineer from 1864 to 1865. After the war he attended Union College in Schenectady, New York. However, his college experience lasted only four months because he was not interested in foreign languages and English rhetoric and always had his mind on one invention or another.

He returned to work at the family business and his rotary engine. In 1865 he received his first patent for his work on this engine. When he was restless in Schenectady, his father would send him on short business trips. In 1866 George was riding a train for one of these trips when a two car derailment ahead of his train led to a two hour wait for the passengers. Watching the railroad men work on the derailed train, George thought of a better way to put the cars back on the tracks. At home he worked out his ideas, but his father was unwilling to loan him money for an invention outside the threshing industry. Only 20 years old, George found help from two local businessmen and was soon selling his car-replacers and reversible steel frogs (a railroad track switching mechanism). Two years later, when business was slow, the two businessmen decided to end their partnership with George. He decided to travel to Pittsburgh where he had heard about a new foundry that could produce the steel for his railroad frogs cheaper than the mills in New York.

He soon had a contract with Anderson and Cook to manufacture his equipment. He had also met the young Pittsburgh entrepreneur Ralph Baggaley, and the two of them formed a partnership to develop George's next invention- the airbrake. The air brake was finally tested in 1868 and became the basis for the founding of the Westinghouse Air Brake Company in 1869. His work to improve railroad signaling devices led to the founding of Union Switch and Signal in 1881. Overall, his inventions would lead to 361 patents and 61 companies.

George married Marguerite Erskine Walker from Roxbury, N.Y. on August 8, 1867. Although George and his wife moved to Pittsburgh in 1868, it was not until 1871 that they bought the home referred to as "Solitude" in the Homewood vicinity of Pittsburgh. They also maintained a summer home called "Erskine Park" in Lenox, M.A., and a winter home in Washington, D.C. George Jr. died on March 12, 1914 and Marguerite died a few months later on June 23. They are both buried in Arlington National Cemetery in Washington, D.C.

The couple had one son, George Westinghouse III, who was born on May 20, 1883. George III was educated at Yale and later married Evelyn Violet Brocklebank in Cumberland England in 1909. He worked for Westinghouse Air Brake in Wilmerding briefly, and then moved to Vancouver Island, British Columbia. His wife Evelyn died in 1943. He died in 1962. They had 6 children (3 boys and 3 girls). They named one son George Thomas Westinghouse (born in 1911 in Pittsburgh). Another namesake is a great-grandson George Westinghouse IV. He was born on June 1, 1947 and lives in Atlanta, Georgia.

Westinghouse Electric Corporation Historical Sketch

The Westinghouse Electric Company was started in 1886 with a workforce of 200 men in a small plant in Garrison Alley, Pittsburgh, PA. The name was changed to Westinghouse Electric and Manufacturing Company in 1889 and to Westinghouse Electric Corporation in 1946.

The Company was founded to build electrical equipment for a new type of distribution system that George Westinghouse modeled after the distribution system for natural gas. With men such as William Stanley and Nikola Tesla as employees, the Westinghouse Electric Company produced many new types of commercial and industrial equipment for the generation, transmission, and application of electricity. Their early equipment included the first transformer in the U.S., generating stations, meters, motors, and transmission lines.

Although the Company produced both direct and alternating current machines, George Westinghouse became an early proponent of alternating current and was eager to prove its advantages over the direct current system. In 1891 the company built the first high voltage transmission line in California. In 1893 Westinghouse won the contract to provide incandescent lights for the World's Columbian Exposition in Chicago. The display that the Company produced was considered to be the greatest display of incandescent lighting at the time in the world. The Fair not only helped publicize the Westinghouse name, it also proved the safety of the new Alternating Current method to the public.

The Company grew and in 1895 moved to East Pittsburgh to expand its facilities. The new plant comprised over two million square feet on forty acres of land. In 1900 they produced the first steam generator for the Hartford Electric and Light Company. By 1915 the Westinghouse Electric International Company was established to distribute its products worldwide.

During the first half of the 20th century, Westinghouse Electric and Manufacturing Company had a period of rapid growth and diversity of products. Among the new additions were household appliances, broadcasting, nuclear power, defense contracts, and transportation equipment. Major Westinghouse developments in these fields follow.

Transportation- Westinghouse electrified the New York, New Haven, and Hartford Railroad in 1906. The Company invented the first automatic electric substations for railroads in 1917. Westinghouse also produced many powerful electric locomotives, including the first diesel-electric locomotive rail car in the U.S. in 1929. Westinghouse was also famous for producing people-movers, elevators, and subway equipment.

Appliances- The Westinghouse Electric and Manufacturing Company produced the first electric range in 1917. The electric clothes iron, coffee percolator, and waffle iron soon followed. In 1934 it opened the first all-electric home- the "Electric Home of Tomorrow"- in Mansfield, OH. Its first home Air Conditioning units were sold in 1937. Westinghouse produced home appliances until 1972, when the Major Appliance Division was sold.

Broadcasting- The first commercially licensed radio station was developed by Westinghouse engineers in 1920. Called KDKA, it's first broadcast was the Harding-Cox election results. Westinghouse engineers also developed the first all-electric television cathode ray tube from 1929-1931. A precursor to satellite television, Westinghouse introduced Stratovision in 1945. Westinghouse broadcasting grew to include 11 radio stations and five television stations around the country.

Nuclear- The first industrial machine of its kind, the Atom Smasher was erected at the Westinghouse Research and Development Center in 1937. By 1941 Westinghouse was producing pure uranium. On December 10, 1948 Westinghouse won a contract from the Navy and the Department of Energy to develop, design, construct, test, and operate a land-based prototype of a water-cooled reactor power plant suitable for marine propulsion. It was called the Naval Nuclear Propulsion Program. The Bettis Atomic Power Laboratory was established as a government-owned, contract operated facility for this purpose in 1949. The engine and propulsion equipment for the first nuclear powered submarine, the *Nautilus*, were built by Westinghouse Bettis and launched in 1954. Three years later, Westinghouse Nuclear Power Division adapted this technology for commercial uses and built the generating plant for the first commercial-scale nuclear power facility in Shippingport, PA. In 1961 Westinghouse Astronuclear Laboratory was awarded a government contract to design and build a Nuclear Engine for Rocket Vehicle Application. The Bettis Atomic Power Laboratory was sold to Bechtel Bettis Inc. in 1999.

Defense- Westinghouse Defense contracts range from helmet liners to nuclear propulsion equipment for spacecraft, but most of the contracts dealt with radar, electric systems, and nuclear technology. During World War II, the Company received production awards for its contributions to the war effort.

Electronics- ANACOM, a general-purpose analog computer was developed in 1948. Westinghouse engineers also developed molecular electronics in 1959.

Fueling these developments was an active Research and Development Laboratory. In 1895 it started as three rooms called the "electrical laboratory." When the company moved to East Pittsburgh in 1895, each department had its own research laboratory. All research was combined in 1904 as a distinct research department. In 1910 the first building specifically for research was erected at the East Pittsburgh plant. In 1916, the research department moved to a newly built laboratory in Forest Hills, PA. In 1955, the research center moved to a new laboratory in Churchill, PA. The Churchill laboratory added two more buildings and eventually became the Research and Development Center. This site would be the final site for research at Westinghouse and by 1974 would come to include eight major buildings, including a cafeteria, auditorium, and library. The Research and Development Center was also called the Science and Technology Center.

During the 1960s and early 1970s, Westinghouse Electric Corp. continued to expand their business into a more diversified conglomerate by adding financial and real estate services to the company name. At its peak, there were 135 divisions within Westinghouse Electric. Financial troubles led the company to sell some of these divisions over the next ten years and in 1987 the company was restructured into 23 business units. However in the early 1990s there were more financial problems with real estate investments and the Westinghouse Credit Corporation. Despite these problems Westinghouse Electric bought CBS in 1995. Two years later, on December 1, 1997, the company changed its name to CBS and relocated to New York. Under CBS the three businesses that stayed in Pittsburgh were called Westinghouse Electric Company

or WELCO. They comprised of non-nuclear energy systems, government operations, and process control.

Scope and Content Note:

The majority of the materials contained in this oversize collection are posters, articles, magazines, and advertisements published by or about the Westinghouse Electric Corporation. Maps of the East Pittsburgh plant, management organizational charts, and blueprints for various pieces of electrical equipment such as generators are some of the more original items in this collection. A copy of the legal charter for the company is also included, as well as a few 50th and 100th anniversary materials. These materials came from the offices at Gateway Center (Pittsburgh, PA) and the Research and Development Center in Churchill, PA.

Separations:

This collection also contains slides, film, photographs, and negatives, as well as a regular sized archival collection (MSS 424). Separate finding aids have been made for each of these formats.

Statement of Provenance:

Archives Accession # 1998.0209	Gift of the Westinghouse Corporation. Deed of Gift signed by G. Reynolds Clark on December 17, 1996.
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Funding to process this collection was generously given by the Pennsylvania Historical and Museum Commission through the Archives and Records Management program.

Series I: Advertisements

This series contains Westinghouse advertisements from newspapers and journals. Most of these advertisements are for specific products and this series has been arranged by broad subject categories. The general folder contains advertisements for Westinghouse Electric as a company. There are also many ads that address the benefits of electricity in general. These have been collected into folder 8. All foreign language advertisements have been grouped in folder

12. This folder contains advertisements in Arabic, Chinese (simplified and traditional), French, German, Japanese, Korean, and Spanish. There is also a small collection of advertisements from the World Fair of 1965 that spotlight the Middleton Family from the Westinghouse films.

Box 1

Folder 1	General	1886-1989
Folder 2	Air Conditioning	1933-1946
Folder 3	Automotive (including batteries)	1913-1926
Folder 4	Aviation	1945
Folder 5	Buildings- equipment	1929-1932
Folder 6	Consumer products- miscellaneous	1920-1983
Folder 7	Controls	1923-c1980
Folder 8	Electricity (general)	1913-1953
Folder 9	Epoxy castings	c1980
Folder 10	Elevators	1919-c1980
Folder 11	Fans	1912-1939
Folder 12	Foreign language	undated
Folder 13	Generators	1917-1973
Folder 14	Homes ("Westinghouse Open House 1964")	1964

Box 2

Folder 1	Home appliances (composite ads)	1916-1956
Folder 2	Irons	1916-1948
Folder 3	Lamps and Lighting	1887-c1980
Folder 4	Middleton Family	1939
Folder 5	Miscellaneous Industrial	1919-c1980
Folder 6	Motors	1917-c1980
Folder 7	Nuclear	1958-c1980
Folder 8	Power and Transmission	1917-c1960
Folder 9	Precipitrons	1941-1943
Folder 10	Railways	1917-1938
Folder 11	Radios (including radio stations), Phonographs, and Televisions	1925-c1965
Folder 12	Ranges	1931-1948
Folder 13	Refrigerators (including water and beverage Coolers)	1931-c1970
Folder 14	Research and Development	1929-c1980
Folder 15	Street Cars/ Trolley Cars	1922-1950
Folder 16	Trains/ People Movers	c1980
Folder 17	Washing Machines	1944-1948
Folder 18	Westinghouse Credit Corporation	c1970
Folder 19	World War II	1942-1946
Folder 20	X-Ray equipment	1938

Series II: Articles

This series contains newspaper and journal articles about the Westinghouse Electric Company and electricity in general. The first box contains a scrapbook of newspaper clippings from Westinghouse and other companies pertaining to new developments in electrical appliances from 1899-1902. Of note are copies of newspapers from the Grand Army of the Republic reception sponsored by George Westinghouse at the new Westinghouse plant in 1894, a newspaper from Pittsburgh's Golden Jubilee that deals with electricity, and a number of articles about the closing of the WCI facility in 1990.

Box 3	scrapbook	1899-1902
Box 4		
Folder 1	1881-1907	
Folder 2	1929	
Folder 3	1952- 1970	
Folder 4	1990-1994	

Series III: Employees

This series mostly contains posters that were made for Westinghouse employees by the company. It also includes presentation materials about the employees' benefit package and a chart showing the number of employees on payroll at the East Pittsburgh plant from 1920- 1955.

Box 4		
Folder 5	Benefits presentation materials	undated
Folder 6	Christmas Loan Offer Statistics	1955
Folder 7	East Pittsburgh plant employee payroll chart	1920-1955
Folder 8	Holiday posters	undated
Folder 9	Miscellaneous posters	undated
Folder 10	Strike posters	1955

Series IV: Facilities

This series mostly contains maps of the East Pittsburgh plant. Some of these maps are detailed floor plans and some are more basic maps used to help visitors. The map from 1904 is a topographic map of the Pittsburgh area. This series also includes a 1949 chart of all international facilities and their capabilities and basic map of the United States with all Westinghouse business

locations marked on it. Folder 4 contains a book of newspaper clippings about the Shippingport Nuclear Power Plant, the first commercial-scale nuclear power facility built in the United States.

Box 5

Folder 1	East Pittsburgh plant	1904-1970
Folder 2	International Chart	1949
Folder 3	National business location chart	c1940
Folder 4	Shippingport Nuclear Power Plant scrapbook	1954

Series V: George Westinghouse, Jr.

This series contains calendars and images of George Westinghouse, Jr. The calendars are from 1946 and were printed for the centennial celebration of the birth of George Westinghouse, Jr. There are also four images of George Westinghouse, Jr. working at his desk. Three are ink-on-paper and the fourth is black and white tempera paint.

Box 5

Folder 5	Calendar	1946
Folder 6	Images	undated

Series VI: Management Organization Charts (1949-1992)

This series contains numerous organizational charts for the top management of Westinghouse Electric. Many of these charts have photographs of the individuals listed.

Box 5

Folder 7	1949-1969
Folder 8	1970-1979
Folder 9	1980-1992

Series VII: Products

This series contains a variety of materials pertaining to the products of Westinghouse Electric Corporation. Advertisements for these products can be found in Series I. In these series you will find blueprints, diagrams, charts, and catalogs for specific products.

Box 5

Folder 10	Central Station customer list	1890
	Circuit Breaker	
Folder 11	diagrams	1942-1950
Folder 12	DeIon guide	1967

Box 6

Folder 1	Controls- Thyristor Chopper diagram	1971
Folder 2	Dynamo diagram	1886
Folder 3	Engine blueprint	c1887
Folder 4	Furniture Systems catalog	c1980
Folder 5	Generator blueprints	1923-1927

Box 6A

Volume 2	Light and Power Plant "Album of Facts"	1925
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Box 6

Folder 6	Mark II engine blueprints	1970
	Nuclear Reactor posters	
Folder 7	Clinch River	1974
Folder 8	SNUPPS (Standardized Nuclear Power Plant System)	1975
Folder 9	Offshore Power Systems financial data	1974
	Radio	
Folder 10	Antenna diagram	1935
Folder 11	Broadcast strength charts	1932
Folder 12	Shortwave Stations schedule	undated
Folder 13	Steam Engine diagram	1887
Folder 14	Television service manual	1947-1959
Folder 15	Transformer diagram	1954
Folder 16	Turbine-generator diagrams	1964-1975
Folder 17	Welding symbols chart	1940

Series VIII: Publications

This series contains materials that were produced by Westinghouse for internal use and for distribution to the public. The *Keep Posted*, *Sales Wedge*, and *Tech Owl* newspapers were produced for employees/students. The other publications were produced for promotional or educational reasons and distributed to the public. The collection of comic books pertains to historical subjects such as George Westinghouse, the history of the company, or the evolution of electricity.

Box 7

Folder 1	Behind the Name of Westinghouse	
Folder 2	Comic books	
Folder 3	<i>Keep Posted</i>	1943-1945
Folder 4	People, Ideas, and Abilities at the Westinghouse	
	Research Labs	1970
Folder 5	<i>Sales Wedge</i>	1942-1943
Folder 6	School Service posters	1952
Folder 7	<i>Tech Owl</i>	1937-1948
Folder 8	Westinghouse Capacity	

Series IX: Westinghouse Anniversary Materials

This series contains materials produced for the 50th and 100th anniversary of the Westinghouse Electric Corporation. The majority of these materials are preparation or final products meant for distribution to the public. The 1936 Golden Jubilee promotion kit contains examples of publications and advertisements used for the celebration.

Box 7

Folder 9	Centennial posters	1986
Folder 10	Centennial pre-publication boards for Westinghouse Engineer Centennial edition	1986
Folder 11	Golden Jubilee calendars	1936
Folder 12	Golden Jubilee promotion kit	1936

Series X: Miscellaneous

This series contains a copy of the company's legal charter papers and a diagram that shows the incorporation of companies in the Westinghouse Electric Corporation.

Box 7

Folder 13	Charter for company	1886
Folder 14	Diagram of incorporated companies	c1986