



# Smithsonian Institution Archives

## Records, 1905-1973

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Smithsonian Institution Archives  
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## Collection Overview

<b>Repository:</b>	Smithsonian Institution Archives, Washington, D.C., <a href="mailto:osiaref@si.edu">osiaref@si.edu</a>
<b>Title:</b>	Records
<b>Identifier:</b>	Accession 06-135
<b>Date:</b>	1905-1973
<b>Extent:</b>	1 cu. ft. (1 record storage box)
<b>Creator::</b>	Science Service
<b>Language:</b>	Language of Materials: English

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## Administrative Information

### Preferred Citation

Smithsonian Institution Archives, Accession 06-135, Records

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## Descriptive Entry

This accession consists of photographs, captions, and press releases related to engineering and engineering research. The files were originally compiled by and for the journalists who worked for the organization Science Service (see Record Unit 7091) from the 1920s through the 1960s. These informational "morgue" files were organized in the Science Service library according to Library of Congress classification categories and contained a mix of editorial correspondence, press releases, and photographs. Some photographs were taken by members of the Science Service staff (e.g., "F. D." indicates that a photograph was made by Fremont Davis); most were supplied by companies, universities, and government agencies. Other Science Service "morgue" files are in Record Unit 7091, Accessions 01-122, 01-243, 90-068, 90-105, and 93-019 and in curatorial collections in Smithsonian Institution museums.

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

### Subjects:

Engineering  
Journalism, Scientific  
Science -- History

Types of Materials:

Black-and-white photographs  
Manuscripts

Names:

Davis, Fremont, 1915-1977

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## Container Listing

### Box 1

- Box 1 of 1 Folder 1 T Exhibitions - 1964-1965 New York World's Fair. Includes photographs of Walt Disney and Robert Moses, "Progressland" and "Futurama" fair exhibits, scenes of pavilion construction, and Westinghouse time capsule display.  
[Digital Content: Walt Disney looks at a model of the New York World's Fair "Progressland" Pavilion, c. 1964. \[Image no. SIA2015-004744\]](#)  
[Digital Content: The "Tools" We Live By \(Usually Called Capital Goods\). \[Image no. SIA2015-004745\]](#)
- Box 1 of 1 Folder 2 T Inventions - Inventions of Leonardo Da Vinci, 1939. Hamilton M. Wright Company photographs of 1939 Italian cultural exhibition that featured models of Leonardo's inventions.
- Box 1 of 1 Folder 3 T Inventions - Inventions of Leonardo Da Vinci. Includes photographs of Leonardo exhibit installed at New York Museum of Science and Industry, September 1940.
- Box 1 of 1 Folder 4 T Mechanical drawing, 1941. Includes photographs and press releases.
- Box 1 of 1 Folder 5 TA Cement - testing, construction, 1936-1948. Includes photographs and press releases.
- Box 1 of 1 Folder 6 TA Concrete - materials and construction, prestressed concrete, 1939-1960. Includes photographs and press releases.
- Box 1 of 1 Folder 7 TA Concrete - courthouse, 1925. Correspondents include Willard H. Dow; includes photographs of murals by Paul Honore and of 1925 construction of Midland (Michigan) County Courthouse, which used Dow Chemical Company's "magnesite stucco."
- Box 1 of 1 Folder 8 TA Testing machines, part 1 of 2 - 1932-1942. Includes photographs and press releases.
- Box 1 of 1 Folder 9 TA Testing machines, part 2 of 2 - 1931-1948. Includes photographs of U.S. National Bureau of Standards (NBS) machines for testing shoes, linoleum, paint, light bulbs, and tires; Fremont Davis photographs of NBS brick exposure testing yard, 1938.  
[Digital Content: Testing Shoe Leather at the U.S. National Bureau of Standards, June 1939. \[Image no. SIA2015-004746\]](#)  
[Digital Content: Dr. Ruby Worner operates a crease meter in a textile laboratory at the U.S. National Bureau of Standards. \[Image no. SIA2015-004747\]](#)
- Box 1 of 1 Folder 10 TD Water - pumping station, water treatment and supply aqueducts, 1906-1949. Includes photographs of Puglia Aqueduct in 1940,

water treatment plants in 1939, floating pump stations, and San Francisco water supply system in 1906.

- Box 1 of 1 Folder 11 TE Roads - general construction, part 1 of 2. Includes material and photographs of California highways in 1937, New Jersey highway projects ca. 1938, highway markers, guard rail systems, anti-skid instruction course, and Pennsylvania Turnpike in 1966.
- Box 1 of 1 Folder 12 TE Roads - general construction, part 2 of 2 - 1905-1937. Includes photographs of maintenance crews in 1937, Louisiana oyster shell roads in 1905-19, metal base experimental roads in 1930s, various road construction equipment, curve measurers, and material on road surface chemistry and soil-surface roads.
- Box 1 of 1 Folder 13 TE Roads - construction, Pennsylvania. Includes 1937 maps for the Pennsylvania Turnpike, and abandoned roads and railroad tunnels.
- Box 1 of 1 Folder 14 TE Roads - construction, outside U.S. Includes material on road construction in Brazil, China, Chile, Ecuador, Costa Rica, Panama, Mexico, Columbia, and Pakistan.
- Box 1 of 1 Folder 15 TF Subways. Includes photographs of Moscow subway in 1935 and U.S. subway lighting designs in 1950.
- Box 1 of 1 Folder 16 TF Tunnels and tunneling. Includes photographs and press releases on tunnel construction in Belgium, New York, Pittsburgh, North Carolina, and Rocky Mountains; illustration of Great Northern Cascade Tunnel; photographs of 1926 bank exhibit about the Moffat Tunnel.
- Box 1 of 1 Folder 17 TF Tunnels - Mont Blanc Tunnel, 1959-1962. Includes photographs and press releases.
- Box 1 of 1 Folder 18 TF Railroads, electrification, ca. 1931. Material on substation switch construction.
- Box 1 of 1 Folder 19 TG Bridges, ca. 1931-1965. Includes photographs and press releases on bridge construction in Canada and United States, including Triborough, Hell Gate, and Hudson River bridges in New York and Sydney Harbor bridge in Australia.
- Box 1 of 1 Folder 20 TJ Materials testing - metal working machines and other testing machines, ca. 1948.
- Box 1 of 1 Folder 21 TJ Materials testing - miscellaneous, ca. 1932-1943.
- Box 1 of 1 Folder 22 TJ Steam accumulators and boilers, ca. 1930-1935. Includes photographs of equipment in Germany and Sweden.
- Box 1 of 1 Folder 23 TH Air conditioning, part 1 of 2. Includes photographs of King Farouk's palace in Egypt, and air conditioning systems in offices, factories, and trains.

- Box 1 of 1 Folder 24 TH Air conditioning, part 2 of 2 - ca. 1930-1960. Includes photographs and press releases.  
[Digital Content: Enjoying the "cool" of a General Electric home air conditioning unit, 1940. \[Image no. SIA2015-004748\]](#)
- Box 1 of 1 Folder 25 TH Construction. Includes photographs and press releases about helicopter hangers, transmission towers, forklifts, and cranes.
- Box 1 of 1 Folder 26 TH Domes - building. Includes photographs and press releases on Pittsburgh Civic Arena, and Kaiser Aluminum dome built in Moscow for American National Exhibition; includes photograph of Nikita S. Khrushchev visiting dome in 1959.
- Box 1 of 1 Folder 27 TJ Engines, ca. 1943-1945. Includes photographs from Boeing, Westinghouse, and the Glenn L. Martin Co. of various heat engines.
- Box 1 of 1 Folder 28 TJ Filters, ca. 1946. Includes General Electric photographs and press releases.
- Box 1 of 1 Folder 29 TJ Pumps, ca. 1929-1945. Includes 1929 photograph of pump for New Orleans surface water drainage, Langmuir mercury vapor condensation pump, 1944 Higgins Industries midget pump for marine engines, and Willis Carrier at company demonstration.
- Box 1 of 1 Folder 30 TJ Steam turbines, part 1 of 2 (ca. 1932-1948). Includes Fremont Davis photographs of Westinghouse and General Electric plants in 1941.
- Box 1 of 1 Folder 31 TJ Steam turbines, part 2 of 2 (ca. 1926-1941). Includes photographs of Berlin and Swedish power stations in 1930s; materials on General Electric, Philadelphia Engineering, and Westinghouse products.
- Box 1 of 1 Folder 32 TJ Gas turbine engines, ca. 1943-1968. Material on engines manufactured by Allis-Chalmers, Boeing, Corning, Ford, General Electric, and Pratt & Whitney companies.
- Box 1 of 1 Folder 33 TN Materials testing.
- Box 1 of 1 Folder 34 TN Materials testing - metals, fatigue, ca. 1950. Includes Westinghouse materials.
- Box 1 of 1 Folder 35 TP Pipes, ca. 1931-1962. Includes 1931 photograph of butterfly valve in Ruskin Power Development.
- Box 1 of 1 Folder 36 TS Steel, ca. 1936-1959. Includes material on Bethlehem Steel, Republic Steel, and U.S. Steel.
- Box 1 of 1 Folder 37 TP Brickmaking, ca. 1939-1944. Includes Fremont Davis photographs of Bureau of Mines research in 1939.
- Box 1 of 1 Folder 38 VK Lighthouses, ca. 1931-1949. Includes photographs and material on American Shoal, Barnegat, Cape Fear, Cape Henry, Port Isabel, Sabin Bank, and Sand Key lighthouses; models for Columbus Memorial Lighthouse proposed in 1930s for Santa Domingo.

- Box 1 of 1 Folder 39 Port of New York PATH construction, 1969-1973
- Box 1 of 1 Folder 40 Water engine at Newcastle-on-Tyne, 1931
- Box 1 of 1 Folder 41 Miscellaneous engineering material, 1907-1950. Includes photographs and press releases about wartime "floating" power plants, communications towers, shoeshine machines, locomotive pistons, a 1934 Russian hydraulic laboratory model, and the manufacturing of optical glass for the Perkins Observatory; also includes photographs of 1907 Rarig Engineering factory workers and the railroad trestle at Cathedral Spires in Colorado.
- [Digital Content: Rarig Engineering Company workers, Columbus, Ohio, 1907. \[Image no. SIA2015-004749\]](#)