



Smithsonian

*National Museum of American History Kenneth E. Behring Center*

## Guide to the Royce L. Beers Papers

NMAH.AC.0880

Laura Waayers

2004

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Royce L. Beers Papers
<b>Date:</b>	circa 1900-1969
<b>Identifier:</b>	NMAH.AC.0880
<b>Source:</b>	National Museum of American History (U.S.). Division of Mechanical and Civil Engineering
<b>Creator:</b>	Beers, Royce. L., 1888-
<b>Extent:</b>	1.5 Cubic feet (4 boxes, 1 map-folder)
<b>Language:</b>	English .
<b>Summary:</b>	Collection documents stokers and fuel burners and includes patents, awards, articles, notebooks, graphs, drawings, tables, and company publications.

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## Administrative Information

### Immediate Source of Acquisition

Found in the collection of the Division of the History of Technology.

### Ownership and Custodial History

Collection transferred from Division of the History of Technology (now known as the Division of Work and Industry) to Archives Center, 2005.

### Related Materials

#### **Materials in the Archives Center, National Museum of American History**

Railroad Trade Literature Collection NMAH.AC.1136

Central Film Service Collection NMAH.AC.1247

Seymour McIntosh and Company NMAH.AC.0985

Warshaw Collection of Business Americana, Series: Stoves and Heating Industry  
NMAH.AC.0060

Warshaw Collection of Business Americana, Series: Railroads NMAH.AC.0060

Pratt, Read and Corporation Records NMAH.AC.0320

John H. White, Jr. Railroad Reference Collection NMAH.AC.0523

Parke, Davis Research Laboratory Records NMAH.AC.0001

Railroad Trade Literature Collection NMAH.AC.1136

### Processing Information

Collection processed by Laura Waayers, intern, 2004; supervised by Jeffrey Stine, curator, 2004; edited by Vanessa Broussard-Simmons, archivist, 2004.

## Preferred Citation

Royce L. Beers Papers, 1900-1969, Archives Center, National Museum of American History.

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Collection is open for research

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## Biographical Note

Mechanical engineer.

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## Scope and Contents

The collection consists of the personal papers of Royce L. Beers, mostly as they relate to his work in mechanical engineering. It includes trade literature, publications, articles, company records and price lists, patents, correspondence, technical reports, tables, graphs, calculations, drawings and sketches, blueprints, research notebooks, field notes, photographs, and prints. Also included are personal and biographical material, such as portraits and documents related to an awards banquet. There are several items of general interest including copies of the Ringlemann scale, a photograph of the Panama Canal Zone, reference to Nestle's Milk Products Company, and an article written by Orville Wright. In addition, there are materials relating to Mrs. Beers' hospital diet.

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## Arrangement

The collection is arranged into eight series.

Series 1, Personal Materials, circa 1900-1969

Series 2, Trade Literature, 1919-1947

Series 3, Publications, 1921-1948, undated

Series 4, Reports, 1917-1946; undated

Series 5, Blueprints, Drawings, Graphs and Tables, 1914-1949,; undated

Series 6, Engineering Research Notebooks, 1913-1945

Series 7, Photographs and Prints, undated

Series 8, Miscellaneous Materials, undated

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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:

Power (Mechanics)

Stokers, Mechanical

Types of Materials:

- Articles -- 20th century
- Awards
- Blueprints
- Business records -- 20th century
- Drawings -- 20th century
- Notebooks -- 1900-1950
- Patents
- Photographs -- 20th century
- Technical reports

Names:

National Museum of American History (U.S.). Division of Mechanical and Civil Engineering

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## Container Listing

### Series 1: Professional Materials, circa 1900-1969

Scope and Contents: Includes some of Beers' patents dating from 1900-1945 and photographs of Gorgona in the Panama Canal Zone dating from circa 1912-1913. Correspondence, photographs, and a banquet program relating to the National Association of Manufacturers' Modern Pioneers award in 1940, which honored outstanding inventors and research scientists, are also found among the materials. In addition, there is an award from the American Society of Mechanical Engineers for fifty-five years of service, including a portrait of Beers from 1969. The materials are arranged in chronological order.

Box 1, Folder 1	Patents, 644,388-2,065,552, 1900-1936
Box 1, Folder 2	Photographs, 1912-1969
Box 1, Folder 3	Correspondence, 1923-1946
Box 1, Folder 4	Office files, 1929-1942
Box 1, Folder 5	Patents, 2,065,553-2,384,433, 1936-1945
Box 1, Folder 6	Awards, 1940, 1969

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## Series 2: Trade Literature, 1919-1947, undated

Scope and Contents: Consists primarily of catalogs from some of the companies that Beers worked for but also includes other businesses. The materials are from American Blower Company, Babcock & Wilcox, B. F. Goodrich, Buffalo Forge Company, Chicago Automatic Stoker Corporation, Clarage Fan Company, Combustion Engineering Corporation, Detroit Stoker Company, Driscoll Transmission Corporation, Hamilton Foundry & Machine Company, Stoker Manufacturers Association, and Western Precipitation Corporation. The materials are arranged in alphabetical order by company.

Box 1, Folder 7	American Blower Company, undated
Box 1, Folder 8	Babcock & Wilcox Limited, 1929, undated
Box 1, Folder 9	B. F. Goodrich Company, 1947
Box 1, Folder 10	Buffalo Forge Company, undated
Box 1, Folder 11	Chicago Automatic Stoker Corporation, 1929
Box 1, Folder 12	Clarage Fan Company, undated
Box 1, Folder 13	Combustion Engineering Corporation, 1919
Box 1, Folder 14	Detroit Stoker Company, 1938, 1943, undated
Box 1, Folder 15	Driscoll Transmission Corporation, undated
Box 1, Folder 16	Hamilton Foundry & Machine Company, 1944
Box 1, Folder 17	Stoker Manufacturers Association, undated
Box 1, Folder 18	Under-Feed Stoker Company of America, 1920, undated
Box 1, Folder 19	Western Precipitation Corporation, 1945

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## Series 3: Publications, 1921-1948, undated

Scope and Contents: Consists of articles written by Royce Beers. There are also reference bulletins, proceedings from association meetings, and trade journals. The materials are arranged in chronological order.

Box 1, Folder 20	Publications, 1921-1925
Box 1, Folder 21	Publications, 1933-1939
Box 2, Folder 1	Publications, 1942-1948;

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## Series 4: Reports, 1917-1946, undated

Scope and Contents: Consists primarily of reports from Babcock & Wilcox Company. These reports were created in 1946 by the company's research department and cover topics such as injectors for grit entrainment, combustion on experimental pot furnace, and spreader firing. In addition, there is a committee report from the Stoker Manufacturers Association. A report detailing the kind of coals available for steam in Springfield, Missouri and a report on air pressure is also found among the materials. Materials are arranged in chronological order.

Box 2, Folder 2

"Stoker Manufacturers Association," committee report, 1922

## "Confidential Report on Various Kinds of Coals Available for Steam Purposes in Proximity of Springfield, Missouri," report, 1917 July 22

### *Box 2, Folder 2*

Box 2, Folder 3	Technical association papers and reports, 1925
Box 2, Folder 4	Babcock & Wilcox, "Investigation of Injectors for Grit Entrainment," Research Department report, 1946
Box 2, Folder 4	Babcock & Wilcox, "Investigation of Overfeed Combustion on Experimental Pot Furnace," Research Department report, 1946
Box 2, Folder 4	Babcock & Wilcox, "Investigation of Overfeed Firing," Research Department report, 1946
Box 2, Folder 4	Babcock & Wilcox, "Investigation of Overfeed Spreader Firing," Research Department report, 1946
Box 2, Folder 5	"Corrections for Altitudes: Report for Air Pressure", undated

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## Series 5: Blueprints, Drawings, Graphs, and Tables, 1914-1949, undated

Scope and Contents: Includes technical notes and engineering data primarily for stokers. The materials are arranged first by type and then in chronological order by date.

Map-folder 1	Drawing for safety device, Deer Engineering Company, 1913 August 1914
Box 2, Folder 6	Drawings, circa 1918-1949
Box 2, Folder 7	Drawings, circa 1921-1947
Box 2, Folder 8	Graphs and tables with calculations, circa 1930-1944
Map-folder 1	Blueprints for stokers, Detroit Stoker Company, 1931-1941
Box 2, Folder 9	Graphs and tables with calculations, circa 1939-1942
Box 2, Folder 10	Heat balance graphs and tables, 1940
Map-folder 1	Drawings of boilers, Babcock & Wilcox, undated
Map-folder 1	Chart of draft loss in brick chimneys one hundred feet high, compiled by R. L. Beers, undated

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## Series 6: Engineering Research Notebooks, 1913-1945

Scope and Contents: Includes four volumes of research notes created by Royce Beers. Notebook one dates from 1913-1920 and is a six-ring, Lefax pocket notebook filled with notes, drawings, and calculations. There is an article on airplane stability written by Orville Wright in 1917. There are also detailed notes on the six-day "hospital diet" fed to Beers' wife at Columbia Hospital following the birth of their child on October 16, 1916. Notebook two dates from 1913-1921 and is also a six-ring, Lefax pocket notebook filled with notes, drawings, and calculations with various reference tables and technical articles printed and sold by the Lefax Corporation of Philadelphia. The third engineering notebook dates from circa 1914-1922 and is, like volumes one and two, a six-ring, Lefax pocket notebook filled with Beers' notes, drawings, and calculations. Included in the notebook are three copies of the 2.5 x 4.25-inch Ringlemann scale for grading the density of smoke. The fourth engineering notebook dates from circa 1919-1945 and contains Beer's field notes, drawings, calculations, and copies of correspondence, data tables, and salesmen's bulletins. The notes and correspondence address such topics as how the Nestle's Milk Products Company could burn coffee grounds for fuel (1941), how to dry fish and beet sugar pulp and garbage incineration (1939). There is also a photographic postcard with an image of a working stoker. The notebooks are arranged in chronological order.

Box 3, Folder 1          Volume one, circa 1913-1920

Box 3, Folder 2          Volume two, circa 1913-1921

Box 3, Folder 3          Volume three, circa 1914-1922

Box 4, Folder 1          Volume four, circa 1919-1945

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## Series 7: Photographs and Prints, undated

Scope and Contents: Consists of images of various types of stokers, control panels, furnaces, workers, and electric motors. The images are not identified by location or date.

Box 4, Folder 2	Images of various types of stokers, control panels, furnaces, and workers
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Box 4, Folder 3	Images of stokers, control panels, electric motors, and furnaces
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## Series 8: Miscellaneous Materials, undated

Scope and Contents: Contains the cover from a notebook from the Clarage Fan Company and an empty loose-leaf binder from the Under-Feed Stokers Company.

Box 4, Folder 4      Clarage Fan Company, loose cover of notebook, undated

Box 4, Folder 5      Under-Feed Stokers Company, empty notebook, undated

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