



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to the James A. Millholland Collection, 1866-1899

NMAH.AC.0163

Robert S. Harding.

1985 July



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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	James A. Millholland Collection
Date:	1866-1899
Identifier:	NMAH.AC.0163
Creator:	Millholland, James A., Jr. , 1824-1893 (Creator)
Extent:	0.3 Cubic feet (1 box)
Language:	English .

Administrative Information

Acquisition Information

Immediate source of acquisition unknown.

Provenance

Transferred to the Archives Center from the Division of Transportation (now the Division of Work and Industry) on July 3, 1985.

Processing Information

Collection processed by Robert Harding, July 1985

Preferred Citation

James A. Millholland Collection, Archives Center, National Museum of American History

Restrictions

Collection is open for research.

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Biographical / Historical

James A. Millholland (1842-1911) was as a railroad executive, serving as General Manager and later President of the George's Creek and Cumberland Railroad in Cumberland, Maryland.

James A. Millholland's father, James Millholland (1812-1875), railway master mechanic, is particularly well known for his invention of many railway mechanisms. His association with the Philadelphia and Reading Railroad Company as master machinist spanned fifty years in the early development of the American railroad. The senior Millholland's inventions and contributions include the cast-iron crank axle, wooden spring, plate girder bridge, poppet throttle, anthracite firebox, water grate, drop frame, and steel tires. He was also an early user and advocate of the superheater, the feedwater heater, and the injector. Several

of his innovations were adopted as standard practice by the railroad industry. For further information see: (White, John H. "James Millholland and Early Railroad Engineering". Contributions From the Museum of History and Technology 252 (1968): 3-36.)

Scope and Contents

This collection is divided into five series. The first series consists of biographical material, including notebooks 1866; 1873; 1882; 1886; correspondence, 1867-1899, both from and to James A. Millholland regarding a trip to England and purchase and shipment of railroad rails; the photographic series contains portraits of both Millhollands and car interiors, and locomotive shops stereocards of locomotives; blueprints, drawings and templates of rail head sections, wheel flanges, and locomotive tires, 1884-1905; and newsclippings regarding James Millholland's patents and locomotive engines.

Arrangement

The collection is arranged into five series.

Series 1: Biographical, 1866-1886

Series 2: Correspondence, 1867-1899

Series 3: Photographs, 1865-1869

Series 4, Drawings, 1875-1905

Series 5: News Clippings, undated

Names and Subject Terms

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

Subjects:

Railroad mechanisms -- 1866-1899
Railroads -- 1860-1900

Types of Materials:

Clippings
Correspondence -- 1930-1950
Notebooks -- 1850-1900

Names:

George's Creek and Cumberland Railroad (Cumberland, Md.)
Millholland, James A., Sr., 1812-1875

Container Listing

Series 1: Biographical, 1866 - 1886

Box 1, Folder 1	James Millholland, undated
Box 1, Folder 2	James A. Millholland, undated
Box 1, Folder 3	James A. Millholland, sketches, Mount Savage, Maryland, 1866 May 17
Box 1, Folder 3	Biographical sketch, 1873 November 22
Box 1, Folder 4	James A. Millholland, sketch book (springs and chains), 1882 August 24
Box 1, Folder 4	<p>[Sketches and specifications for chain used in rail tenders and hoppers: notebook], August 1882 1 Item (Graphite on paper.; 2.6" x 1.8".) Collector: Millholland, James A., fl. 1860s-1900 Language: English. Notes: AC0163-0000001.tif (AC scan no.: one page from notebook?) Topic: Chains Railroad equipment industry Genre/Form: Notebooks -- 1880-1970</p>
Box 1, Folder 4	Travel Diary of trip to Europe, including sketches, expenses, weather notations, addresses, 1886 August 31-1886 December 13

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Series 2: Correspondence, 1867-1899

Box 1, Folder 4

Box 1, Folder 5 to James Millholland from his son James A. Millholland, 1867 November 19, 1867 September 14, 1867 October 21

Box 1, Folder 5 to Warren Delano re: rail, steel, iron works (copies), 1867 December 2 and 8

Box 1, Folder 5 to James A Millholland from Pennsylvania Railroad, 1881 December 29

Box 1, Folder 5 to James A. from William H. Brown, chief engineer Penn. RR., 1885 February 13

Box 1, Folder 5 from A.M. Wellington, editor, Engineering News, 1888 November 12

Box 1, Folder 5 from L.B. Poxson, supt, Phila & Reading Railway Co., 1899 June 6

Box 1, Folder 5 from Howard F. Martin, General Sales Agent Penn Steel Co., 1899 August 21

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Series 3: Photographs, 1865 - 1869

Box 1, Folder 5

Box 1, Folder 6

Robert D., John, Henry, James, and Paul Millholland, undated

Box 1, Folder 6

[Group portrait. Left to right: Henry, Robert D., James, John, and Paul Millholland: b & w photograph, cabinet print], December 28, 1884

1 Item (Silver albumen on paper, mounted on card.; 6.1" x 4.1".)

Collector: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000005 (AC scan no.)

Unrestricted research use on site by appointment.
Photographs must be handled with cotton gloves unless protected by sleeves.

Photographer imprint ("Haber"?) and "Reading, Pa." on mount below print.

Topic: Railroad equipment industry

Place: Pennsylvania -- 19th century

Reading (Pa.)

Genre/Form: Cabinet prints

Cabinet photographs -- 1880-1990

Photographs -- 1880-1890 -- Black-and-white photoprints
-- Silver albumen

Albumen prints -- 19th century

Portraits, Group -- 19th century

Box 1, Folder 6

James Millholland, 1865

Box 1, Folder 6

[James Millholland: black-and-white carte-de-visite photoprint], 1865

1 Item (Silver albumen on paper.; 3.4" x 2.1".)

Collector: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000003.tif (AC scan no.)

Unrestricted research use on site by appointment.
Photographs must be handled with cotton gloves unless protected by sleeves.

Faded and spotted.

Names: Millholland, James A., Sr., 1812-1875

Topic: Railroad equipment industry

Genre/Form: Portraits -- Men

Photographs -- 1860-1870 -- Black-and-white photoprints

Box 1, Folder 6

James Millholland, 1869

Box 1, Folder 6

[James Millholland: b & w photoprint], August 16, 1869

1 Item (Silver albumen? on paper.; 3.4" x 2.1".)

Collector: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000004 (AC scan no.)

	<p>Unrestricted research use on site by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.</p> <p>Carte-de-visite?</p> <p>Names: Millholland, James A., Sr., 1812-1875</p> <p>Topic: Railroad equipment industry</p> <p>Genre/Form: Cartes-de-visite Portraits -- Men Photographs -- 1860-1870 -- Black-and-white photoprints</p>
Box 1, Folder 6	James Millholland Family, with second wife Mary Ann, undated
Box 1, Folder 6	James Millholland, 1870
Box 1, Folder 6	<p>[James Millholland: black-and-white photoprint, possibly albumen], 1870 1 Item (Silver albumen on paper.; 8.8" x 8.2".)</p> <p>Collector: Millholland, James A., fl. 1860s-1900</p> <p>Language: English.</p> <p>Notes: AC0163-0000002.tif (AC scan no.)</p> <p>Unrestricted research use on site by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.</p> <p>Signed "Clark" at lower right.</p> <p>Names: Millholland, James A., Sr., 1812-1875</p> <p>Topic: Railroad equipment industry</p> <p>Genre/Form: Portraits -- Men Photographs -- 1870-1880 -- Black-and-white photoprints Albumen prints -- 1870-1880</p>
Box 1, Folder 7	"Anthracite coal burning passenger locomotive Built by Philadelphia & Reading Railroad Company, photo by J.A. Millholland" ("Kosciusko"), 1864 May 12
Box 1, Folder 7	<p>[Anthracite coal burning locomotive Kosciusko, built for Philadelphia & Reading Railroad: b & w photograph], May 12, 1864 1 Item (Silver gelatin on paper.; 3.0" x 2.9".)</p> <p>Creator: Millholland, James A., fl. 1860s-1900</p> <p>Language: English.</p> <p>Notes: AC0163-0000006 (AC scan no.)</p> <p>Unrestricted research use on site by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.</p> <p>Names: Philadelphia & Reading Railroad Co.</p> <p>Topic: Locomotives Railroad equipment industry</p> <p>Genre/Form: Albumen prints -- 1860-1880 Photographs -- 1860-1870 -- Black-and-white photoprints</p>
Box 1, Folder 7	"Philadelphia and Reading Railroad Reading, PA Locomotive Shops", 1860s

[Philadelphia & Reading Railroad locomotive shop: b & w stereo photoprint], Circa 1865

1 Item (3.3" x 6.9".)

Collector: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000009 (AC scan no.)

Silver albumen on paper on flat cardboard mount.

In series ?, box 1, folder 7.

Unrestricted research use on site by appointment.
Photographs must be handled with cotton gloves unless protected by sleeves.

Names: Philadelphia & Reading Railroad Co.

Topic: Locomotives

Railroad equipment industry

Genre/Form: Albumen prints -- 1860-1880

Photographs -- 1860-1870 -- Black-and-white photoprints
Stereographs

Box 1, Folder 7 "Interior of passenger car, Philadelphia and Reading Railroad Photo: J.A. Millholland, amateur", 1865 February 17

Box 1, Folder 7 Interior of car shop at Reading, #10T, 1860s

Box 1, Folder 7 "Anthracite coal burning Freight locomotive on the Philadelphia and Reading Railroad. photo by J. A. Millholland, (Dubuque)" 3 proof prints, 1865 May 3

Box 1, Folder 7 [Anthracite coal burning freight locomotive Dubuque, built for Philadelphia & Reading Railroad: b & w photooprint], May 3, 1865

1 Item (Silver albumen on paper.; 3.8" x 3.4".)

Creator: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000007 (AC scan no.)

Unrestricted research use on site by appointment.
Photographs must be handled with cotton gloves unless protected by sleeves.

Names: Philadelphia & Reading Railroad Co.

Topic: Locomotives

Railroad equipment industry

Genre/Form: Albumen prints -- 1860-1880

Photographs -- 1860-1870 -- Black-and-white photoprints
-- Silver albumen

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Series 4: Drawings (of rail head sections, wheel flanges and locomotive tires), 1875 - 1905

Box 1, Folder 7

Box 1, Folder 8 Drawings, undated

Box 1, Folder 9 Templates, 1875 - 1905

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Series 5: News Clippings, undated

Box 1, Folder 10[Image\(s\)](#)

Box 1, Folder 10

[\[The first successful anthracite coal burning locomotive: reproduction of technical drawing.\]](#), March 1888

1 Item (Ink on paper.; 11.1" x 6.2".)

Collector: Millholland, James A., fl. 1860s-1900

Language: English.

Notes: AC0163-0000008.tif (AC scan no.)

Diagram of the 1852 design built for Philadelphia & Reading Railroad, published in the National Car and Locomotive Builder, March 1888, p. 38, top.

Names: Philadelphia & Reading Railroad Co.

Topic: Locomotives

Railroad equipment industry

Genre/Form: Drawings -- 1860-1890

Technical drawings

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