



Smithsonian
National Museum of American History
Kenneth E. Behring Center

Guide to Llewellyn Nathaniel Edwards Papers

NMAH.AC.0959

Vanessa Broussard Simmons

2004

Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
archivescenter@si.edu
<http://americanhistory.si.edu/archives>

Table of Contents

Collection Overview	1
Administrative Information	1
Arrangement.....	2
Scope and Contents.....	2
Biographical / Historical.....	2
Names and Subjects	3
Container Listing	4
Series 1: Correspondence, 1919-1950, 1967 - 1967.....	4
Series 2: Photographs, 1910-1919.....	5
Series 3: Articles, 1919 - 1933.....	6
Series 4: Publications, 1910 - 1942.....	8
Series 5: Notes and Writings, 1916 - 1933.....	10
Series 6: Drawings, 1911 - 1931.....	11

Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Llewellyn N. Edwards Papers
Identifier:	NMAH.AC.0959
Date:	1925-1964
Extent:	2.3 Cubic feet (7 boxes)
Creator:	Edwards, Llewellyn N., 1873-1952 Work and Industry, Division of, NMAH, SI Mechanical and Civil Engineering, Division of [former name], NMAH, SI.
Language:	English Collection is in English. Collection is in English.
Summary:	The collection documents Llewellyn Nathaniel Edwards, a civil engineer and bridge builder.

Administrative Information

Acquisition Information

Immediate source of acquisition unknown.

Provenance

Transferred to the Archives Center from Division of Work and Industry, 2006.

Materials in Other Organizations

Llewellyn N. Edwards Papers, 1915-1933, Raymond H. Fogler Library Special Collections Department, University of Maine

Related Materials

Materials in the Archives Center

Canadian Bridges Photograph Albums (AC1025)

Processing Information

Collection processed by Vanessa Broussard Simmons, archivist and Alison Oswald, archivist, 2017.

Preferred Citation

Llewellyn N. Edwards Papers, Archives Center, National Museum of American History

Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

Biographical / Historical

The collection contains the papers of Llewellyn Nathaniel Edwards, a graduate of the University of Maine and an expert on bridges and on concrete. Llewellyn Nathaniel Edwards was born in Otisfield, Maine in 1873. He received his Bachelor of Engineering degree in 1898, his C.E. in 1901, and Doctor of Engineering degree in 1927, all from the University of Maine. After graduation he began work as a draftsman for the Boston Bridge Works Company. Between 1905 and 1912, he worked as a bridge designer for various railroad companies, including the Boston and Maine, the Chicago and Northwestern, and the Grand Trunk Railway of Canada. While with the Grand Trunk he was in charge of the reconstruction of five bridges for the city of Toronto, where he began his research in the study of concrete. He was then briefly employed by the U.S. Bureau of Public Roads assigned to the district which included Texas, Oklahoma, Arkansas and Louisiana, before becoming bridge engineer for the Maine State Highway Commission in 1921. In 1928, he again was employed by the Bureau of Public Roads as a structural engineer, retiring in 1943. Dr. Edwards served as a captain in the Corps of Engineers in World War I. He became an authority on concrete and was author of *A Record of History and Evolution of Early American Bridges* as well as numerous articles in professional and scientific journals. Dr. Edwards died in 1952.

Source

The biographical note is from the Llewellyn N. Edwards Papers, Raymond H. Fogler Library Special Collections Department, University of Maine

Scope and Contents

The collection includes captioned photographs of dirt roads in North Carolina and Mississippi, 1913; articles, including reprints from engineering journals; typed and handwritten notes on bridges; a handwritten, bound bibliography on bridges; typed notes on bridges and bridge history, including some drawings; correspondence, most relating to his research on the history of bridges but also relating to other topics; reports on landslides in California; a partial manuscript (L-Z) for a glossary of terms relating to bridge engineering and construction; a typescript of "A Manual of Bridge Construction;" a manuscript of "Bridge Construction in America"; and extensive correspondence with J. P. Snow on the history of wooden bridges.

Arrangement

The collection is arranged into five series.

Series 1: Correspondence, 1919-1950, 1967

Series 2, Photographs,

Series 4, Articles,

Series 5: Publications

Series 6: Drawings, 1911-1931

Names and Subject Terms

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

Subjects:

- Bridges -- Design and construction
- Engineers
- Roads -- Mississippi
- Roads -- North Carolina
- Wooden bridges

Types of Materials:

- Articles
- Articles -- 20th century
- Correspondence -- 20th century
- Drawings
- Manuscripts -- 20th century
- Notes
- Photographs -- 20th century
- Reports
- Reprints
- Writings

Names:

- Mechanical and Civil Engineering, Division of [former name], NMAH, SI.
- Work and Industry, Division of, NMAH, SI

Container Listing

Series 1: Correspondence, 1919-1950, 1967 - 1967

This series consists of handwritten and typescript correspondence from construction companies, the South Dakota State Highway Commission, the Iowa State Highway Commission, fellow engineers, and professors of civil engineering related to Edwards engineering work with bridges. Other correspondence found throughout the series relates to Edwards research on the history of bridges in general. The series is arranged chronologically.

Box 1, Folder 1	Correspondence, 1919-1921
Box 1, Folder 2	Correspondence, 1927
Box 1, Folder 3	Correspondence, 1930
Box 1, Folder 4	Correspondence, 1931
Box 1, Folder 5	Correspondence, 1932
Box 1, Folder 6	Correspondence, 1933
Box 1, Folder 7	Correspondence, 1934
Box 1, Folder 8	Correspondence, 1935
Box 1, Folder 9	Correspondence, 1936-1937
Box 1, Folder 10	Correspondence, 1938
Box 1, Folder 11	Correspondence, 1939
Box 1, Folder 12	Correspondence, 1940
Box 1, Folder 13	Correspondence, 1941
Box 1, Folder 14	Correspondence, 1942
Box 1, Folder 15	Correspondence, 1943-1944
Box 1, Folder 16	Correspondence, 1945
Box 1, Folder 17	Correspondence, 1948
Box 1, Folder 18	Correspondence, 1950
Box 1, Folder 19	Correspondence, 1967

[Return to Table of Contents](#)

Series 2: Photographs, 1910-1919

This series contains black and white photographs documenting the construction of some of Edwards bridge projects. The series is arranged alphabetically by the name of the bridge.

Box 1, Folder 20	Bathurst Street Bridge, Toronto, 1915 - 1916
Box 1, Folder 21	Cattle Market Bridge, Toronto, 1918
Box 1, Folder 22	Couteau Bridge, Quebec, 1910 - 1911
Box 1, Folder 23	Crawford Street Bridge, Toronto, 1915 - 1916
Box 1, Folder 24	Filling of catfosh pond, 1918
Box 1, Folder 25	Keele Street Bridge, Toronto, 1918
Box 1, Folder 26	Land slide, Ohio River Road, Washington County, Ohio, undated
Box 1, Folder 27	Mississippi (various counties represented) bridges, 1913
Box 1, Folder 28	Mt. Pleasant Road Bridge, Toronto, 1916 - 1919
Box 1, Folder 29	Olympic Island Bridge, Toronto, 1914
Box 1, Folder 30	Spadina Avenue Bridge, Toronto, 1919
Box 1, Folder 31	Negatives, unidentified, undated
Map-folder 1	[Water Maine?], undated <i>1 Photograph</i>
Map-folder 1	Water tower at the Philadelphia and reading Coal and Iron Company, undated <i>1 Photograph</i>

[Return to Table of Contents](#)

Series 3: Articles, 1919 - 1933

This series consists of articles authored by others and related to bridge construction. The materials are arranged alphabetically by title.

Map-folder 1	<i>Springfield-Republican</i> (front page), "Significance of the New and Old Bridges Told in Verse, 1922 July 30
Box 2, Folder 1	<i>The Canadian Engineer</i> , 1919
Box 2, Folder 2	<i>The Canadian Engineer</i> , 1920
Box 2, Folder 3	<i>The Canadian Engineer</i> , 1932
Box 2, Folder 4	<i>Concrete</i> , 1920
Box 2, Folder 5	<i>The Concrete Way</i> , 1929
Box 2, Folder 6	<i>Contractor's Atlas</i> , 1922
Box 2, Folder 7	<i>The Crushed Stone Journal</i> , 1930 - 1932
Box 2, Folder 8	<i>The Earth Mover</i> , undated
Box 2, Folder 9	<i>Engineering and Contracting</i> , 1918 - 1920
Box 2, Folder 10	"Engineering News-Record," 1919
Box 2, Folder 11	"Engineering News-Record," 1920
Box 2, Folder 12	"Engineering News-Record," 1928
Box 2, Folder 13	"Engineering News-Record," 1931
Box 2, Folder 14	"Engineering News-Record," 1932
Box 2, Folder 15	"Engineering News-Record," 1933
Box 2, Folder 16	<i>Engineering World</i> , 1919
Box 2, Folder 17	<i>Good Roads</i> , 1920 - 1920
Box 2, Folder 18	<i>Highway Engineer and Contractor</i> , 1919
Box 2, Folder 19	<i>The Highway Magazine</i> , 1925
Box 2, Folder 20	<i>Illustrated World</i> , undated
Box 2, Folder 21	<i>The National Sand and Gravel Bulletin</i> , 1932
Box 2, Folder 22	<i>Nickel Cost Iron News</i> , 1931 - 1932

- Box 2, Folder 23 *Roads and Streets*, undated
- Box 2, Folder 24 *Science*, 1932 - 1933
- Box 2, Folder 25 *Journal of the Royal Society of Arts*, 1932 - 1933

[Return to Table of Contents](#)

Series 4: Publications, 1910 - 1942

This series contains typescript publications by Edwards, specifically drafts of *The Bridge Inspector's Handbook*, and the *Glossary of Terms and Compendium of Information Relating to Bridge Materials and Construction*.

Box 3, Folder 1	<i>The Bridge Inspector's Handbook</i> , table of contents, undated
Box 3, Folder 2	<i>The Bridge Inspector's Handbook</i> , introduction, undated
Box 3, Folder 3	<i>The Bridge Inspector's Handbook</i> , Chapter 1, undated
Box 3, Folder 4	<i>The Bridge Inspector's Handbook</i> , Part 1, Chapter 2, undated
Box 3, Folder 5	<i>The Bridge Inspector's Handbook</i> , Part 1, Chapter 3, undated
Box 3, Folder 6	<i>The Bridge Inspector's Handbook</i> , Part 1, Chapter 4, undated
Box 3, Folder 7	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 1, undated
Box 3, Folder 8	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 2, undated
Box 3, Folder 9	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 3, undated
Box 3, Folder 10	<i>The Bridge Inspector's Handbook</i> , The Inspection of Riveting, undated
Box 3, Folder 11	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 4, undated
Box 3, Folder 12	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 5, undated
Box 3, Folder 13	<i>The Bridge Inspector's Handbook</i> , Part 2, Chapter 5, undated
Box 4, Folder 1	<i>The Bridge Inspector's Handbook</i> , Part 3, Chapter 1, undated
Box 4, Folder 2	<i>The Bridge Inspector's Handbook</i> , Part 3, Chapter 2, undated
Box 4, Folder 3	<i>The Bridge Inspector's Handbook</i> , Part 3, Chapter 3, undated
Box 4, Folder 4	<i>The Bridge Inspector's Handbook</i> , Part 3, Chapter 4, undated
Box 4, Folder 5	<i>The Bridge Inspector's Handbook</i> , Index, undated
Box 4, Folder 6	Concrete Making for Highway Pavements and Bridges, undated
Box 4, Folder 7	Proportioning the Materials of Mortars and Concretes by Surface Areas and Aggregates, undated
Box 4, Folder 8	History of girder systems and of the theory of bridges, undated
Box 4, Folder 9	American Society of Testing Materials, 1934 - 1935

Box 4, Folder 10	Glossary of Terms and Compendium of Information Relating to Bridge Materials and Construction, L-O, undated
Box 4, Folder 11	Glossary of Terms and Compendium of Information Relating to Bridge Materials and Construction, P-R, undated
Box 4, Folder 12	Glossary of Terms and Compendium of Information Relating to Bridge Materials and Construction, S, undated
Box 4, Folder 13	Glossary of Terms and Compendium of Information Relating to Bridge Materials and Construction, T, undated
Box 4, Folder 14	Glossary of Terms F-W, undated
Box 4, Folder 15	Miscellaneous, 1910 - 1942

[Return to Table of Contents](#)

Series 5: Notes and Writings, 1916 - 1933

This series contains notes and writing by Edwards. The material is primarily typescript and relates to his research about bridges. Includes are some small pocket notebooks containing notes and bibliographic information about bridges

Box 5, Folder 1	Chapter 3, Post Revolution Period, [circa 1916]
Box 5, Folder 2	Landslides, 1929 - 1933
Box 5, Folder 3	Landslides, subsidences and rock falls, circa 1928
Box 5, Folder 4	Notes about bridges (bibliography), undated
Box 5, Folder 5-8	Notes about bridges, undated
Box 6, Folder 1-7	Notes about bridges, undated
Box 7, Folder 1-5	Notes about bridges, undated
Box 7, Folder 6	Standard specifications for draw bridge machinery (Virginia Bridge and Iron Company), undated
Box 7, Folder 7	Newspaper clippings, undated
Box 7, Folder 8	Miscellaneous notebook (pages 1-96), undated
Box 7, Folder 9	Miscellaneous notebook (pages 226-499) about bridges, undated
Box 7, Folder 10	Miscellaneous notes (from notebooks), undated
Box 7, Folder 11	Miscellaneous notebook (pages 804-976) about bridges and civil engineering, undated
Box 7, Folder 12	Miscellaneous notes, undated

[Return to Table of Contents](#)

Series 6: Drawings, 1911 - 1931

Map-folder 1	Old Toll bridge plan, undated
Map-folder 1	The Agrosy of Geography, square rigged sailing ship, 1920 <i>1 color lithograph</i>
Map-folder 1	Construction, 1911 March
Map-folder 1	Stone Cellular construction, near Orr Island and Bailey Island, Maine, undated <i>1 Blueprint</i>
Map-folder 1	Maine Highway Commission, Bailey Island Bridge over Willis Strait, 1926 <i>1 Blueprint</i>
Map-folder 1	Maine Highway Commission, details of wire cable guard rail, 1931 September 21 <i>1 Blueprint</i>
Map-folder 1	Maine Highway Commission, form holder for concrete bridge construction, 1922 April 14 <i>1 Blueprint</i>
Map-folder 1	City of Toronto, Crawford Street Bridge, handling of floor slab, 1913 January 30 <i>1 Blueprint</i>
Map-folder 1	City of Toronto, Mt. Pleasant Road Bridge, details of handrail, 1917 July 18 <i>1 Blueprint</i>
Map-folder 1	Springfield, Massachusetts, timber lattice spans to replace three long spans in Toll Bridge, 1919 January <i>1 Blueprint</i>
Map-folder 1	Project 113-B, Knox County, sketch showing relocation and landslide, undated <i>1 Blueprint</i>
Map-folder 1	Locust Creek Fill, Route 36, Linn County, survey, 1929-11-14 - 1929-11-21 <i>2 Blueprints</i>

[Return to Table of Contents](#)