



Smithsonian

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

## Guide to the Lloyd F. Rader Papers

NMAH.AC.0952

Sara Wheeler

2017

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Lloyd F. Rader Papers
<b>Date:</b>	1925 - 1980
<b>Identifier:</b>	NMAH.AC.0952
<b>Source:</b>	National Museum of American History (U.S.). Division of Work and Industry (Collector) Rader, Helen (Donor)
<b>Creator:</b>	Rader, Lloyd Forrest, 1902-1979 (Creator)
<b>Extent:</b>	1 Cubic foot (2 boxes)
<b>Language:</b>	English .
<b>Summary:</b>	Lloyd F. Rader was born in 1902 in Lincoln, Nebraska. He received his education from the University of Michigan at Ann Arbor, earning his bachelor, masters, and Ph. D in civil engineering. Rader taught at the University of Nebraska at Lincoln, the Polytechnic Institute of Brooklyn, New York and he served as a professor at the University of Wisconsin at Madison for 33 years. The collection includes material about Rader's professional career, honors and awards he received, and articles and textbooks authored or co-authored by Rader about asphalt, concrete, and urban planning.

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## Administrative Information

### Immediate Source of Acquisition

Donated by Helen Rader to the National Museum of American History's Division of Civil and Mechanical Engineering in 1982.

### Ownership and Custodial History

Collected by the Division of Work and Industry and transferred to the Archives Center in 2007.

### Processing Information

Processed by Sara Wheeler, intern, August 2017; supervised by Alison Oswald, archivist

### Preferred Citation

Lloyd F. Rader Papers, 1925-1980, Archives Center, National Museum of American History.

### Restrictions on Access

Collection is open for research but is stored off-site and special arrangements must be made to work with it. Contact the Archives Center for information at [archivescenter@si.edu](mailto:archivescenter@si.edu) or 202-633-3270.

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## Biographical / Historical

Lloyd Forrest Rader was born in Lincoln, Nebraska on October 8, 1902. Rader earned his bachelor degree in 1924, his master's degree in 1925, and his Ph. D. degree in civil engineering in 1938, all from the University of Michigan at Ann Arbor. He also attended the United States Naval Academy for three years, from 1919 to 1922. Rader worked as a civil engineer for the Pennsylvania State Highway Department and the Nebraska State Highway Department. In 1925, he began teaching as a civil engineering instructor at the University of Nebraska at Lincoln. From 1928-1937, Rader served as an Assistant Professor of Civil Engineering at the Polytechnic Institute of Brooklyn, New York and from 1937 to 1940 he served as an Associate Professor. While at the Polytechnic Institute, Rader developed a testing laboratory for highway materials and for soil mechanics and taught undergraduate and graduate coursework. In 1940, Rader joined the staff of the University of Wisconsin at Madison serving as Professor of Civil Engineering in charge of the Division of Highway Engineering and City Planning. During World War II, Rader served as an officer in the Civil Engineering Corps and Sea Bees of the the Navy on active duty for over four years, reaching the rank of Commander.

While at the University of Wisconsin, Rader served on a variety of committees including the Campus Planning Committee and the University Civil Defense Committee. He was also an active member in the Madison, Wisconsin community, serving as the chairman of the Madison Traffic Commission, the chairman of the Madison Civil Defense Commission, the president of the University West End Club and the Madison Technical Club. Rader also was involved in professional engineering societies, including the Association of Asphalt Paving Technologists, the American Society for Testing and Materials, and the American Society of Civil Engineers.

Rader retired from the University of Wisconsin in 1973. He received numerous awards and honors, including the Prevost Hubbard Award from the American Society for Testing and Materials on June 28, 1974. At the age of 77, Rader died on December 23, 1979.

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## Scope and Contents

This collection contains materials related to Lloyd F. Rader's career in civil engineering, including resumes, correspondence, photographs, lecture notes, research papers, honorary memberships in various societies, award certificates, newsletters, clippings, reprints of journal articles written by Rader, periodicals, and books on construction and paving materials.

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## Arrangement

This collection is arranged into three series.

**Series 1: Biographical, 1954-1980**

**Series 2: Honors and Awards, 1938-1979**

**Series 3: Articles and Textbooks, 1925-1979**

## Names and Subject Terms

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

### Subjects:

- Asphalt
- City planning
- Civil engineering
- Civil engineers
- Concrete -- 1920-1960
- Pavements
- Periodicals
- Roads
- Urban planning and environment

### Types of Materials:

- Awards
- Books
- Books -- 20th century
- Certificates
- Certificates -- 20th century
- Clippings -- 20th century
- Correspondence -- 20th century
- Lecture notes
- Photographs -- 20th century
- Resumes

### Names:

- American Society for Testing and Materials
- American Society of Civil Engineers.
- National Museum of American History (U.S.). Division of Work and Industry
- Polytechnic Institute of Brooklyn
- Rader, Helen
- University of Wisconsin--Madison

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## Container Listing

### Series 1: Biographical, 1954 - 1980

Scope and Contents: Series 1 contains news clippings, correspondence, photographs, professional profiles, and resumes that focus on the professional life of Lloyd F. Rader.

Box 1, Folder 1	Who's Who in American Education, 1954
Box 1, Folder 2	Summary of professional life, 1954
Box 1, Folder 3	Academic career information, 1959
Box 1, Folder 4	University of Wisconsin faculty profile, 1964
Box 1, Folder 5	Photographs, news articles, and correspondence, 1965 - 1970
Box 1, Folder 6	Application for overseas educational service, 1967
Box 1, Folder 7	Biographical data from various institutions, 1967 - 1970
Box 1, Folder 8	Correspondence with American Society of Civil Engineers and the Smithsonian Institute, 1971
Box 1, Folder 9	Summary of professional life, 1974
Box 1, Folder 10	Various summaries of career, 1970 - 1979
Box 1, Folder 11	Retirement news clippings, 1973 - 1974
Box 1, Folder 12	Memorial resolutions, 1980

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## Series 2: Honors and Awards, 1938 - 1979

Scope and Contents: Series 2 contains certificates, thank you and recognition letters, newsletters, and honorary memberships received by Lloyd F. Rader.

Box 1, Folder 13	Prize of Belgium at the Eighth International Road Congress, 1938
Box 1, Folder 14	Naval recognition, 1946
Box 1, Folder 15	Certificates, 1947 - 1978
Box 1, Folder 16	Letters of recognition, 1961 - 1973
Box 1, Folder 17	American Society for Testing and Materials recognition, 1963
Box 1, Folder 18	Newsletters with announcements of recognition, 1967 - 1974
Box 1, Folder 19	Honorary membership to American Society of Civil Engineers, 1969
Box 1, Folder 20	Thank you letter from Dade County Regional Planning Commission, 1971
Box 1, Folder 21	Honorary membership to Committee D04 for American Society for Testing and Materials, 1973
Box 1, Folder 22	Honorary membership to ASTM, 1979

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## Series 3: Articles and Textbooks, 1925 - 1979

Scope and Contents: Series 3 contains articles, reports, and textbooks written or co-authored by Lloyd F. Rader. The materials focus on concrete, asphalt pavement, construction materials, and urban planning.

Box 1, Folder 23	Articles printed in professional societies' proceedings, 1925 - 1967
Box 1, Folder 24	Reprinted articles about the design and stability of pavement, 1935 - 1965
Box 1, Folder 25	Research and reports on asphalt and concrete, 1938 - 1958
Box 1, Folder 26	Fifth edition of "Material of Construction", 1947
Box 2, Folder 1	"History of Concrete Roads and Theory of Concrete Mixtures" from the Third Wisconsin County Highway Institute on Concrete Records, 1949 February
Box 2, Folder 2	Traffic Engineering, 1953 January
Box 2, Folder 3	Sixth edition of "Materials of Construction", 1955
Box 2, Folder 4	Highway Research bulletins, 1955 - 1973
Box 2, Folder 5	Reprinted articles about the future of civil engineering, 1958 - 1969
Box 2, Folder 6	Traffic Engineering lectures presented at the Freshman Forum at the University of Wisconsin, 1961
Box 2, Folder 7	Urban and city planning related papers, 1963 - 1967
Box 2, Folder 8	Urban planning paper for American Society of Civil Engineers and related correspondence, 1965 - 1966
Box 2, Folder 9	List of publications, 1967 - 1979
Box 2, Folder 10	Collected papers on concrete, circa 1965-1972

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