Smithsonian
National Museum of American History Kenneth E. Behring Center

Guide to the W.J. Eney Collection

NMAH.AC.1062

Alison Oswald

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	W.J. Eney Collection
Date:	1929-1977
Identifier:	NMAH.AC.1062
Source:	National Museum of American History (U.S.). Division of Work and Industry
Creator:	Eney, William J.
Extent:	2.5 Cubic feet (5 boxes, 1 map-folder)
Language:	Collection is in English. Some materials in French and Spanish.
Summary:	The collection documents William J. Eney, a civil engineer whose research primarily focused on model analysis of bridges, stress test and concrete.

Administrative Information

Immediate Source of Acquisiton

Original source and date of acquisition unknown.

Provenance

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

Processing Information

Collection processed by Alison Oswald, archivist, 2018.

Preferred Citation

William J. Eney Collection, 1929-1977, Archives Center, National Museum of American History.

Restrictions on Access

Collection is open for research. Unprotected photographs must be handled with gloves.

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Biographical Note

William J. Eney (d. 1981) was a 1927 graduate of Lehigh University, earning a degree in civil engineering. Eney was head of the Department of Civil and Mechanical Engineering and Director of the Fritz Engineering

Laboratory. In addition to teaching, he published widely, in various engineering publications and was a co-author of the textbook, *Structural Steel Design.*

Scope and Contents

The collection relates to Eney's professional career at Lehigh University in Pennsylvania as a researcher, professor, and the director of the engineering laboratory. The papers include reports, publications, teaching materials, photographs and blueprints.

Arrangement

1 series.

Names and Subject Terms

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

Subjects:

Bridges
Civil engineering
Civil engineers
Materials -- Testing
Structural design

Types of Materials:

Blueprints
Correspondence -- 20th century
Drawings -- 1900-1950
Photographs -- 20th century
Reports

Names:

Lehigh University
National Museum of American History (U.S.). Division of Work and Industry

Container Listing

Box 1, Folder 1	Lehigh University Financial Report, 1976-1977
Box 1, Folder 2	Correspondence related to model materials and construction, 1938-1952
Box 1, Folder 3	Writings by William J. Eney, 1936-1959
Box 1, Folder 4	A Model Study of Continuous Truss Bridge, 1930
Box 1, Folder 5	A Model of Continuous Truss Bridge, 1941
Box 1, Folder 6; Map-folder 1	Submarine Ring Model, 1934
Box 1, Folder 7	Model Analysis Welded Building Frame, 1939
Box 1, Folder 8	Determining Stresses in Semi-Elliptical Sewers with a Deformeter Apparatus, 1939
Box 1, Folder 9	Susquehanna River Bridge Model , 1939
Box 1, Folder 10; Map-folder 1	Susquehanna River Bridge Model , 1939, 1941
Box 1, Folder 11; Map-folder 1	An Investigation of the Deflection of a "C" Frame Press with Celluloid Models, 1941
Map-folder 1	Walt Whitman Suspension Bridge, 1954
Map-folder 1	Bridge Over the Maumee River, Toledo, Ohio, 1930
Box 2, Folder 1	Determining the Deflection of Structures with Elastic Models, 1941
Box 2, Folder 2	An Investigation of a Submarine Arch Rib by means of Plastic models, 1948
Box 2, Folder 3	Physical Properties of Laminated Sheets and Slabs of Cellulose Acetate used in the fabrication of a Plastic Model of a Gun Turret, 1948
Box 2, Folder 4	A Stutdy of the Performance of SR-4 Strain Gage's Young's Modulus and Creep Characteristics of Cellulose Acetate, 1948
Box 2, Folder 5	Prestressed Concrete Bridge Members, A Comparison Between Ordinary Reinforced and Prestressed Reinforced Concrete Beams, 1952
Box 2, Folder 6	Prestressed Concrete Bridge Members, Progress Report 5, Endurance of a Full Scale Pre-Tensioned Concrete Beam, 1953, 1957

Box 2, Folder 7	Strand Research for Prestresed Concrete , 1955
Box 2, Folder 8	Field tests on a Prestressed Concrete Multi-Beam Bridge, Progress Report 9, 1956
Box 2, Folder 9	Modern Installation for Testing of Large Assemblies Under Static and Fatigue Loading, 1959
Box 3, Folder 1	Continuously Reinforced Concrete Pavements, Experimental Pavement on U.S. Route 22 in Berk County, Pennsylvania, 1962
Box 3, Folder 2	Structural Steel Design, 1964
Box 3, Folder 3	Combined bending and Torsion of Plate Girders, undated
Box 3, Folder 4	Determining the Deflection of Structures with Elastic Models, undated
Box 3, Folder 5	Miscellaneous notes, drawings and sketches, 1938-1952
Box 3, Folder 6	Miscellaneous notes, drawings and sketches, 1952-1964
Box 4, Folder 1	Micro-Influentiometer, 1930-1937
Box 4, Folder 2	United States Experimental Model Basin, Navy Yard, Washington, DC, Further Structural Tests of Turret Models, 1939
Box 4, Folder 3	Investigation of the Rigidity of Turret Rings with plastic Models, 1945
Box 4, Folder 4	Model Study of an Arch Bridge for Statically Indeterminate Stresses, 1932
Box 4, Folder 5	Department of Civil and Sanitary Engineering, Massachusetts Institute of technology, Structural Analysis Laboratory Research, 1937-1938
Box 4, Folder 6	Applied Mechanics and Model Analysis, 1938
Box 4, Folder 7	A Structural Model of Study of the Holston Bridge , 1941
Box 4, Folder 8	Analysis of a Vierendeel Truss by Eney Deformeter, 1941
Box 4, Folder 9	The Stressometer, A Laboratory Instrument for Structural Engineering and Research, 1947
Box 4, Folder 10	Civil Engineering Course Outline (C.E. 401), 1955-1956
Box 5, Folder 1	Review of Model Analysis of the Yadkin River Bridge by the Beggs Deformeter method, 1956
Box 5, Folder 2	Prestressed Concrete Research at Lehigh UNiversity from 1952-1957, 1958

Box 5, Folder 3	Continuously Reinforced Concrete Pavement, Full Scale and Model tests, Highway Research Boards, Bulletin 1818, 1958
Box 5, Folder 4	American Society of Civil Engineering Structural Engineering Conference, reprints, 1967
Box 5, Folder 5	A Striuctural Model Study of Load Distribution in Box-Beam Bridges, 1968
Box 5, Folder 6	Mechanical Analysis, undated
Box 5, Folder 7	Mechanical Analysis of a Two-Hinged Arch Truss, undated
Box 5, Folder 8	Writings by others, 1940, 1973
Box 5, Folder 9	Model Studies of a Folded Plate Structure, 1962
Box 5, Folder 10	Model Investigation of a Northlight Barrel Shell Structure, 1964
Box 5, Folder 11	Proceedings, American Society of Civil Engineers, Volume 69, No. 8, 1943
Box 5, Folder 12	Structural Model Testing-Load Distribution in Concrete I-Beam Bridges, Journal of Portland Cement Association, Vol. 7, No. 3, 1965
Box 5, Folder 13	Research and Industrial Testing, Fritz Engineering Laboratory, Lehigh University, undated
Box 5, Folder 14	Schnitzer Alloy Products Company, 1954
Box 5, Folder 15	Torrington Company, trade literature, undated