



Smithsonian

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

## General Motors Research Laboratory Collection

NMAH.AC.1538

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	General Motors Research Laboratory Collection
<b>Date:</b>	circa 1938-1972
<b>Identifier:</b>	NMAH.AC.1538
<b>Creator:</b>	General Motors Corporation (Manufacturer)
<b>Source:</b>	National Museum of American History (U.S.). Division of History of Technology (Collector) National Museum of American History (U.S.). Division of Mechanical and Civil Engineering
<b>Extent:</b>	.50 Cubic feet (1 box, 1 map folder)
<b>Language:</b>	English .
<b>Summary:</b>	Collection documents General Motors Corporation engineering exhibits and studies.

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## Administrative Information

### Acquisition Information

Immediate source of acquisition unknown.

### Provenance

Collection transferred to the Archives Center from the Division of Work & Industry in February 2022.

### Processing Information

Collection is unprocessed.

### Preferred Citation

General Motors Research Laboratory Collection, Archives Center, National Museum of American History

### Restrictions

Collection is open for research.

### 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.

## Content Description

Collection contains brochures, exhibit literature, photographs, plans, and reprints of the General Motors Corporation relating to engineering exhibits and studies. Included are Highway and Horizons Exhibit brochures and lecture; photocopy of a 1938 plan for New York World's Fair quartz window engine exhibit; photographs on combustion analysis, 1939; and plans concerning shot-peening and surface finishing, 1938-1939.

Reprints in collection include thirteen by Gerald M. Rassweiler and Lloyd Withrow on engine studies; "Retrospect," by Rassweiler on infrared work at General Motors; and "Shot Blasting," and "Fatigue Weakness of Surfaces," by J.O. Alman of the GM Research Laboratories, 1943-1951.

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## Arrangement

Collection is unarranged.

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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:

- Engineering -- 20th century
- Engines
- Exhibits
- New York World's Fair (1939-1940)

### Names:

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

## Container Listing

Box 1, Folder 1	Combustion Chamber Design, Project #PP18, Buick-A, 1926
Box 1, Folder 2	General Motors, Highways and Horizons, New York World's Fair , 1939 Notes: Includes World's fair brochure for the general Motors Exhibit Building (1939) and "Facts, Figures and Information on the General Motors Highways and Hotizons Exhibit," (1939).
Box 1, Folder 3	National Defense Research Committee of Office of Scientific Research And Development War Metallurgy Division, Effect of Shot Blasting on the Mechanical properties of Steel, Part 1 , 1944-02-10
Box 1, Folder 4	National Defense Research Committee of Office of Scientific Research And Development War Metallurgy Division, Effect of Shot Blasting on the Mechanical properties of Steel, Part 2, 1945-03-16
Box 1, Folder 5	National Defense Research Committee of Office of Scientific Research And Development War Metallurgy Division, Effect of Shot Blasting on the Mechanical properties of Steel, Part 3, 1946-04-01
Box 1, Folder 6	Guerrera, C.A. Surface Rolling of Fillets and Peening of Oil Holes in Model 71 Crankshafts for Detroit Diesel Engine Division , 1950-03-15
Box 1, Folder 7	The Future is Our Assigmnet, A Glimpse Behind the Scenes at General Motors Research Laboratories, 1959
Box 1, Folder 8	Rassweiler, Gerald M. Retrospective A Story of Infrared Developments in General Motors, 1972
Box 1, Folder 9	Almen, J.O. reprints of articles written for the Research Laboratories Division of General Motors Corporation, Detroit, 1943-1951
Box 1, Folder 10	Gerald M. Rassweiler and Lloyd Withrow, reprints of articles written for the Research Laboratories Division of General Motors Corporation, Detroit, 1932-1940
Map-folder 1	Folks, Vol. 2, No. 4, 1939-04
Map-folder 1	Quartz Window Engine, Window Retainer and Cyl HD, 1938-10-13 1 Blueprint (12.25 in x 18.5 in )
Map-folder 1	Instrument panel Assembly, Wheelco Group Gages 9organ Console type), 1938-11-03 1 Blueprint (23 in x 35 in )
Map-folder 1	Quartz Window Engine Assembly , 1938-1939

1 Blueprint (33.5 in x 58 in )

Map-folder 1

Instrument and Control Panel (organ Console Type), 1938-1939  
1 Blueprint (34.5 in x 47 in )