



Smithsonian
National Museum of American History
Kenneth E. Behring Center

Guide to the Robert B. Rice Papers

NMAH.AC.0322

Don Darroch

1989

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Robert B. Rice Papers
Identifier:	NMAH.AC.0322
Date:	1915 - 1954
Extent:	30.1 Cubic feet (81 boxes)
Creator:	Rice, Robert B., 1900-1976 Engineering and Industry, Division of, NMAH, SI.
Language:	English Collection is in English. Some materials in German.
Summary:	Personal papers and correspondence (ca. 1946-1953) of Rice; publications, mostly on Diesel engines, their components and technical problems; material from Rice's academic career; directories of Diesel engine manufacturers and brochures describing their products; technical manuals and reprints of technical articles.

Administrative Information

Acquisition Information

Collection donated by Robert B. Rice, October, 1972.

Provenance

Transferred to the Archives Center from Engineering and Industry, January 1989.

Related Materials

The Archives Center also holds collection #308, the Robert B. Rice Film Collection, 1936-1945. In addition, there is a small group of Rice's papers, primarily concerned with his academic career, in the Archives of North Carolina State University at Raleigh.

Processing Information

Collection processed by Don Darroch, 1989.

Preferred Citation

Robert B. Rice Papers, 1915-1954, 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.

Biographical / Historical

Rice was a consulting engineer and professor of engineering at Newark College of Engineering, 1928-1936, and at North Carolina State University, 1937-1956.

Scope and Contents

The collection contains personal papers and correspondence, c. 1946 1953, of Robert B. Rice, as well as publications about diesel engines, their components and technical problems, dating from 1915 1954. It also includes academic material: class notes, examination questions, and theses required for the masters degree. There are directories of manufacturers of diesel engines, both foreign and domestic, and copies of brochures and technical manuals describing their products. Diesel engine applications in road transportation, railroads, electrical generation, ships, and aircraft are described in numerous brochures and published articles. Technical articles on diesel fuels (including coal) and lubricants are also included. There are numerous papers on other types of internal combustion engines.

Included are specifications, parts lists, instruction books, design data, pamphlets, test data, and drawings for American and foreign diesel engines, parts, and accessories, 1936 1947; research reports, trade literature, facts sheets, articles, test data, catalogs, and handbooks on diesel engines for railroad, aircraft, and marine use, 1926 1967; diesel engine charts, 1943 1945; and materials on metals, fuel lubrication, jet propulsion, steam engines, turbines, and thermodynamic and heat power problems.

The collection is arranged into seven series. Series 1, Indexes and Directories, consists primarily of catalogues of diesel engines. Series 2 is composed of Rice's Professional and Academic Material. Series 3, Diesel Engines, consists of information on manufacturers of diesel engines; this information is sub divided into U.S. and foreign manufacturers and it is arranged alphabetically. Series 4 -6 provide information on Electric Utility Generator Units, Diesel Components and Technical Problems, and Fuels and Lubricants. Series 7, Reference Materials, is divided into Files and Blueprints, Manuals and Publications, and Design Drawings and Technical Data for the DZ 710 Aircraft Diesel.

Arrangement

The collection is divided into seven series.

Series 1: Indexes and directories

Series 2: R.B. Rice professional and academic material

Series 3; Diesel engines (by manufacturer)

Series 4: Electric utility generator units

Series 5: Diesel components and technical problems

Series 6: Fuels and lubricants

Series 7: Reference materials

Names and Subject Terms

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

Subjects:

- Diesel motor
- Engineering -- 1910-1960
- Engineers -- 1910-1960
- Internal combustion engines

Types of Materials:

- Personal papers -- 20th century

Names:

- Engineering and Industry, Division of, NMAH, SI.

Container Listing

Series 1: Indexes and Directories

- | | |
|-------|--|
| Box 1 | Catalogue by manufacturer and by country; diesel chronology. |
| Box 2 | Catalogue, "engines built 1930 -1950". |

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Series 2: R.B. Rice professional and academic material

Box 3	course notes.
Box 4	Course exams; technical publications.
Box 5	Masters of science theses; publications.
Box 6	Course notes; publications.
Box 7	Exams, papers and theses for ms, nc state college.
Box 7(A)	correspondence.

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Series 3: Diesel engines [by manufacturer]

Subseries 3.1: United States

Box 8	Alco.
Box 9	Allis chalmers, anderson, atlas.
Box 10	Baldwin.
Box 11	Buckeye, Buda.
Box 12	Busch Sulzer.
Box 13	Caterpillar, Chicago.
Box 14	Clark.
Box 15	Chrysler, Continental.
Box 16	Cooper Bessemer.
Box 17	Cummins, de la Vergne.
Box 18	Enterprise.
Box 19	Fairbanks morse.
Box 19 A	Foos, Fulton.
Box 20	General Motors.
Box 21	General Motors.
Box 22	General Motors.
Box 23	Hallett Harnischfager, hHll, Ingersoll rand.
Box 24	Hamilton.
Box 25	Hamilton through Hdr.
Box 26	Hercules.
Box 27	Hercules.
Box 28	International.
Box 29	International, Lanova, etc.
Box 30	Mack to Murray.

Box 31	Lister Blackstone to Palmer.
Box 32	Lorimer.
Box 33	Nordberg.
Box 35	Superior.
Box 34	Price Rathbun to Trieber.
Box 36	Superior.
Box 37	Transit to wolverine.
Box 38	Warckesha.
Box 39	Worthington.

Subseries 3.2: Foreign

Box 40	Atla fiat, etc.
Box 42	Man, etc.
Box 43	Meadows, etc.

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Series 4: Electric utility generator units

- Box 44 electric utility publications; government training manuals.
- Box 45 Electric utility publications.
- Box 46 Electric power generating equipment, fuels, etc.

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Series 5: Diesel components and technical problems

Box 47	specification manuals; fuel injection.
Box 48	Notes on coal burning diesel; term paper.
Box 49	Technical journals; blueprints; newport news ships, models.
Box 50	Survey of internal combustion engines; correspondence, etc.
Box 50 A	tech. Manuals, brochures, blueprints on governors (pickering, woodward, pierce).
Box 50 B	brochures, booklets, tech. Manuals.

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Series 6: Fuels and lubricants

- Box 51 engine fuels and lubricants; files and tech. Papers.
- Box 52 Alternative fuels for internal combustion engines; files and publications.
- Box 53 Tech. Papers, brochures.
- Box 53 A tech. Specifications for fans/blowers; course notes.

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Series 7: Reference materials

Subseries 7.1: Files and blueprints

- Box 54 turbo blowers/compressors; files.
- Box 55 Tech. Publications, 1920s-1930s; notebooks, files; oil and gas conference.
- Box 56 Steam turbines; files.
- Box 57 Steam turbines; files.
- Box 58 Oil and gas power div. Of asme; files 1937 1954.
- Box 59 Oil and gas power div. Of asme; files 1927 1948.
- Box 60 Files, c. 1930-1950.
- Box 61 Files; fuels and lubricants.
- Box 62 Marine basin co. (Brooklyn, ny); blueprints for naval training school.

Subseries 7.2: Manuals and publications

- Box 63 Catalogues, notes, blueprints.
- Box 64 Diesel/turbines; publications (some in German).
- Box 65 Refrigeration problems; files.
- Box 66 Tech. Publications 1915 1943; "automobile facts" 1946 1954.
- Box 67 Condensers; files.
- Box 68 Diesel/electric; publications.
- Box 69 Pumps/condensers; files.
- Box 70 Internal combustion engines; files.
- Box 71 Specification manuals.
- Box 72 Tech. Manuals.
- Box 73 Electric utility publications/course notes.
- Box 74 Diesels; engineering hand book, tech. Manuals.
- Box 75 Catalogues, tech. Manuals, brochures.
- Box 76 Tech. Papers, brochures.

Subseries 7.3: Design drawings and technical data for dz 710 aircraft diesel (German 1938-1942)

Box 77

Engineering drawings, etc.

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