



Smithsonian

National Air and Space Museum

William Price Carl, Jr. Collection

Jessamyn Lloyd

2008

National Air and Space Museum Archives
14390 Air & Space Museum Parkway
Chantilly, VA 20151
Business Number: Phone: 703-572-4045
NASMRefDesk@si.edu
<https://airandspace.si.edu/archives>

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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	William Price Carl, Jr. Collection
Date:	1940s-1970s
Identifier:	NASM.2008.0024
Extent:	2.34 Cubic feet
Language:	English .

Administrative Information

Acquisition Information

Peter Carl, Gift, 2008, NASM.2008.0024

Processing Information

Arranged, described, and encoded by Jessamyn Lloyd, 2008. Encoded by Sarah LeClaire, 2024.

Preferred Citation

William Price Carl, Jr. Collection, Acc. 2008.0024, National Air and Space Museum, Smithsonian Institution.

Restrictions

No restrictions on access

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Biographical / Historical

William Price Carl, Jr. was born in 1918 and grew up on Long Island, New York. He attended Princeton University and graduated in 1940 with a Bachelor of Science Civil Engineering degree. Also in 1940, he was drafted and served in the United States Army Air Force (USAAF) as an Engineering Officer with the 80th Bomb Squadron, first as a Lieutenant and later as a Captain. In 1941, William Carl graduated from the USAAF School of Aeronautical Engineering in Chanute Illinois. In 1943, he was promoted to Major and assigned to the National Advisory Committee for Aeronautics (NACA) site at Langley Field, Virginia where he would remain until 1946. Carl is credited with the conceptual design of the P-82 twin Mustang and the development of emergency ditching equipment for the B-24 during his time at NACA. Carl married Ann Gilpin Baumgartner, the P-82's test pilot and the first woman to fly a jet aircraft. Also during this time, he was awarded a U.S. patent for rigid sails. From 1946-1955, William Carl worked as the Chief Engineer for John H. Carl & Sons, Inc. where he built a supersonic wind tunnel for Princeton University and performed hydrofoil research for the U.S. Navy. This research led to the development of the XCH-4, a vessel

powered by two aircraft engines, and to U.S. and foreign basic patents awarded to Carl for hydrofoils. In 1955, Carl co-founded Dynamic Developments, Inc. and served as the company's President. 50% of Dynamic Developments, Inc. was sold to Grumman Aircraft Engineering Corporation in 1956, and the remainder was sold to them in 1962. Upon completion of the sale, Carl became general manager of Grumman's Marine Department. During his tenure with Grumman, Carl was in charge of designing many hydrofoil vessels, including HS Denison for the U.S. Maritime Administration, Landing Craft, AGEH, and Flagstaff for the U.S. Navy, and commercial ferries, as well as two wind generators. Upon his retirement in 1977, William Carl and Ann Carl embarked on a series of international sailing journeys. The Carls then moved to Virginia's Northern Neck where William worked on sailboats. He completed his last boat project, an 18-foot catboat built from scratch, at the age of 86. William Price Carl, Jr. died in February 2008.

Scope and Contents

This collection consists of 2.34 cubic feet of William Carl's papers, including a file of poetry (most signed Ann Carl), correspondence, his rigid sail patent, Dynamic Design Inc./Grumman Aircraft Corp. organizational records, articles and papers written by Carl as well as a collection of reference articles by miscellaneous authors, drawings and charts and handwritten notes, and three folders of photographic material and artwork. The collection also contains several Dynamic Design Inc./Grumman Aircraft Corp. progress and research reports, including reports on hydrofoil vessels, MARAD Test Vehicle MA-2133, and HS Denison, and four scrapbooks.

Arrangement

This collection arrived with almost no organization and, with the exception of a few projects that were clearly defined, has been organized by type. Within each folder, items are organized chronologically as much as possible.

Names and Subject Terms

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

Subjects:

Aeronautics
Wind tunnels

Container Listing

Box 1, Folder 1	Biographical/Personal Information
Box 1, Folder 2	Poetry
Box 1, Folder 3	Sailing records
Box 1, Folder 4	Correspondence
Box 1, Folder 5	Patent – Rigid Sail
Box 1, Folder 6	Design – XP-251
Box 1, Folder 7	Articles/Papers Authored by William Carl
Box 1, Folder 8	Articles/Papers Authored by William Carl cont.
Box 1, Folder 9	Periodicals
Box 1, Folder 10	Articles/Papers (Miscellaneous Authors)
Box 1, Folder 11	Articles/Papers (Miscellaneous Authors) cont.
Box 1, Folder 12	Articles/Papers (Miscellaneous Authors) cont.
Box 1, Folder 13	Dynamic Developments Inc./Grumman Aircraft Corp. Organizational Records
Box 1, Folder 14	Promotional Materials
Box 1, Folder 15	Drawings, Charts, and Notes
Box 1, Folder 16	Photographs, Negatives, Illustrations/Artwork
Box 1, Folder 17	Photographs, Negatives, Illustrations/Artwork cont.
Box 1, Folder 18	Photographs, Negatives, Illustrations/Artwork cont.
Box 2, Folder 1	Dynamic Developments Inc./Grumman Aircraft Corp. Progress Reports and Research
Box 2, Folder 2	Dynamic Developments Inc./Grumman Aircraft Corp. Progress Reports and Research cont.
Box 2, Folder 3	Dynamic Developments Inc./Grumman Aircraft Corp. Progress Reports and Research cont.

Box 3, Folder 1 Oversized Photographs

Box 3, Folder 2 4 scrapbooks