

# **Carbon Fiber Collection**

Patti Williams

2022

National Air and Space Museum Archives 14390 Air & Space Museum Parkway Chantilly, VA 20151 NASMRefDesk@si.edu https://airandspace.si.edu/archives

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## **Collection Overview**

Repository:	National Air and Space Museum Archives
Title:	Carbon Fiber Collection
Date:	1967-1970 2007
Identifier:	NASM.2023.0008
Creator:	Epremian, Edward Union Carbide Corporation
Extent:	0.2 Cubic feet (One slim letter box)
Language:	English .
Summary:	The collection consists of archival items relating to carbon fiber development by Dr. Edward Epremian.

## Administrative Information

#### Acquisition Information

Jeff Epremian, Gift, 2022, NASM.2023.0008

#### **Processing Information**

Arranged, described, and encoded by Patti Williams, 2022.

#### Preferred Citation

Carbon Fiber Collection, NASM.2023.0008, National Air and Space Museum, Smithsonian Institution.

#### Restrictions

No restrictions on access

#### **Conditions Governing Use**

Material is subject to Smithsonian Terms of Use. Should you wish to use NASM material in any medium, please submit an Application for Permission to Reproduce NASM Material, available at Permissions Requests .

## **Biographical / Historical**

The development of carbon fiber materials represented a major breakthrough in aeronautical materials engineering, as the material provides a superior strength-to-weight ratio, enabling lighter but stronger airframes that are more fuel-efficient and can be built with fewer parts. The material was originally developed for military applications but has since been an important material for civilian aviation applications. Dr. Edward Epremian was the general manager of the Advanced Materials Department, Union Carbide Corporation (UCC), and headed the team of scientists that researched and produced carbon fibers as part of a contract for the US Air Force.

## Scope and Contents

The collection consists of the following archival items: Thornel: High Modulus Graphite Fiber UCC marketing kit; labels; lecture note cards; fifteen 35 mm slides used for presentations; various technical papers and articles written by Dr. Edward Epremian on carbon fiber development and UCC Thornel products; and a 2007 high school paper written by Gregory Epremian on carbon fiber and the role his grandfather, Dr. Edward Epremian, played.

## Arrangement

Arranged by material type.

## Names and Subject Terms

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

Subjects:

Aeronautics Aerospace engineering Carbon fibers

Types of Materials:

Papers, technical