

Collection 282, Neal V. Loving Collection

Collection Number: MS-282

Title: Neal V. Loving Collection

Dates: 1930-1998

Creator: Loving, Neal V., 1916-1998

Summary/Abstract: Neal Loving, recognized as one of the "African American Pioneers in Aviation", was a renowned airplane designer and an aerospace engineer at the Flight Dynamics Laboratory, Wright Patterson Air Force Base (WPAFB), Dayton, Ohio. The collection contains papers, photographs, and blueprints of Loving's designs, including his WR-1 midget racer named "Loving's Love".

Quantity/Physical Description: 9 linear feet

Language(s): English

Repository:

Special Collections and Archives, Paul Laurence Dunbar Library, Wright State University, Dayton, OH 45435-0001, (937) 775-2092

Restrictions on Access: There are no restrictions on accessing material in this collection.

Restrictions on Use:

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Preferred Citation:

MS-282, Neal V. Loving Collection, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio.

Acquisition: The papers of Neal V. Loving were accessioned into the Wright State University Special Collections and Archives in May, 1997. They were donated by Mr. Neal Loving.

Physical Characteristics and Technical Requirements: Audiocassette, VHS, and film requires transfer or special equipment to view. Two reels of film have been digitized and are in the E-Archives.

Publication Note: Neal Loving published an autobiography in 1994 titled *Loving's Love: A*

Black American's Experience in Aviation. A draft is available in the collection and the book is available in the reading room TL540.L68 .A3 1994.

Processing Information: Processed by James C. Johnson, June 1998. Additions processed by Arlene Booher, October 1999.

Arrangement: The collection is arranged into 14 series as follows:

SERIES 1: Correspondence

SERIES 2: College Career- Wayne State University

SERIES 3: Flight Logs and Flight Certificates

SERIES 4: Civil Service Career- United States Air Force

SERIES 5: Aircraft- Personal/Wayne Aircraft Company/Wayne School of Aeronautics Aircraft

SERIES 6: *Loving's Love: A Black American's Experience in Aviation*

SERIES 7: Photographs

SERIES 8: Photo Album/Scrapbooks

SERIES 9: Clippings

SERIES 10: Films/Videos/Audio Tape

SERIES 11: Personal/Awards

SERIES 12: Lectures

SERIES 13: Professional Affiliations

SERIES 14: Miscellaneous Aviation-Related Material

Biographical Note:

Neal V. Loving was born in Detroit, Michigan, on February 4, 1916. His passion for aviation began at the early age of ten and never subsided. Neal Loving's life has come to symbolize the true human spirit for he arose out of disastrous life events to become recognized as one of the "African American Pioneers in Aviation."

Loving's interest in aviation started as a young boy and was fueled even farther by the success of Charles A. Lindbergh. Lindbergh's influence in Loving's life as apparent as Loving makes similarities in both their lives in his book, *Loving's Love: A Black American's Experience in Aviation*. Despite the hardships of the Depression and racism, Loving's early interest in

aviation never subsided and hints of his future career were brought forward with his successful completion of training at Cass Technical High School, Detroit, Michigan, in 1934. This training included an aircraft mechanics class which helped set into motion Loving's professional career.

By 1941, Loving was the co-owner of the Wayne Aircraft Company, a glider manufacturing firm located in Detroit, Michigan. Shortly after the United States entered World War II, Loving helped form an all-black Civil Air Patrol Squadron (CAP) in Detroit. The purpose of CAP was to provide pre-military training, sea-air rescues, and coastal submarine hunting. Loving's group trained in preflight inspections, glider assembly (of Loving's design), and parachute training. It was during one of these CAP training missions that Neal Loving's life changed forever. On Sunday, July 30, 1944, Loving, flying a Wayne S-1 glider, crashed. The resulting accident eventually cost Neal Loving both his legs. To add to Loving's despair, during his lengthy hospital stay, his fiancée broke off their engagement and his mother passed away.

However, out of these lows, Neal Loving arose to new challenges and established himself as one of the leading African American influences in aviation. Loving first fought through the racism in post-war America to establish and become co-owner of the Wayne School of Aeronautics from March 1946 to October 1956. It was during this time that Loving designed and built a midget racer, the WR-1, or better known as "Loving's Love," This plane became internationally recognized as an outstanding plane in its category and was eventually donated to the Experimental Aircraft Association Museum in 1964.

With new desire to marry and in an effort to provide financial security, Loving entered Wayne State University as an engineering student. In 1961, at the age of 45, Loving graduated as the oldest full-time engineering student in the university's history at that time. During this time, Loving designed another plane, a car-towable plane, the WR-2. However, due to certain design characteristics, Loving scrapped this plane and concentrated on his next project, the successful roadable aircraft, the WR-3.

Loving's new career path took him to the Flight Dynamics Laboratory, Wright Patterson Air Force Base (WPAFB), Dayton, Ohio. Loving's first responsibility from August 1961 to February 1966, was to work as the Project Engineer on the High Altitude Clear Air Turbulence (HICAT) project. This program helped Loving to become established internationally in HICAT research. As his career as an aerospace engineer moved forward, Loving then worked on and researched the structural aspects of aircraft. Loving retired from his civil service career with the United States Air Force on January 9, 1982. During his civil service career, Loving received and earned numerous awards and commendations for his outstanding ability and dedication.

During retirement, Loving continued to follow his passion for flying and maintained an active flying schedule until October 17, 1992, when the FAA medical Center revoked his pilot's medical certificate. However, Loving maintained an active stance in the aviation field and continued to receive recognition for his remarkable life. Loving also embarked on a speaking career. Loving lectured about his life and aviation at schools, civic organizations, museums, and aviation clubs. Neal Loving was the author of *Loving's Love: A Black American's Experience in Aviation*, the first book published in the African American Pioneers in Aviation group in the Smithsonian History of Aviation Series.

Neal Loving passed away on December 19, 1998 at the age of 82.

Scope and Content

The Neal V. Loving Collection is divided into 14 series.

SERIES 1. Correspondence. This series contains three boxes of correspondence related to Neal V. Loving's professional career, aircraft, and personal relationships. They are divided chronologically by year or decade and alphabetized by sender's last name within each folder. Any unidentifiable correspondence has been placed in the back of the folder for the respective year. Correspondence relating to his hospital stay in 1944 can be located in Series 8, Photo Album/Scrapbooks. Correspondence to Neal Loving's family following his death can be located in Series 11, Personal/Awards.

SERIES 2. College Career- Wayne State University. Neal Loving graduated from Wayne State University in 1961 at the age of 45. This series contains four files that hold several college project reports, including his W-2 Roadable Aircraft Project. Also included in this series is his Wayne State University admissions information and his Bachelor of Science diploma.

SERIES 3. Flight Logs and Flight Certificates. This series contains nine files that are divided along the lines of individual flight log dates that span his entire flying career. The flight log dates begin in 1938 and end in 1994. Included in his flight logs are details of every flight he piloted. Several flights have interesting notations such as those taken after his medical recovery and one entry even describes a near miss with a Navy jet aircraft. Also included in this series are his pilot certificates, FAA medical certificates, Temporary Ground Instructor Certificate, and a photo of one of the aircraft he flew, a BT-13.

SERIES 4. Civil Service Career- United States Air Force. The largest series in the collection covers Neal Loving's civil service career with the United States Air Force from 1961 to his retirement in 1982. Loving kept detailed records of his work for the Air Force as an engineer with the Flight Dynamics Laboratory. Loving's specialty was Clean Air Turbulence and its aeronautical effects. Some notable features of this series include a *Who's Who* information booklet of Air Force Flight Dynamics Laboratory personnel, research conference information attended by Loving, and Loving's government reports and publications that featured his research. Loving also kept detailed travel records (TDY) from 1962 to 1981. The TDY records are divided by the years in which Loving maintained them. Also included in this series are several official United States Air Force photos that feature Loving. Loving's passport photo is also included in the series.

SERIES 5. Aircraft- Personal/Wayne Aircraft Company/ Wayne School of Aeronautics Aircraft. This series contains aircraft blueprints. This series contains information Loving documented and saved relating to his personal aircraft that he built, the WR-1, "Loving's Love" (N351C) and the WR-3 (N553A). The information includes flight information, various inquiries and design information relating to the WR-3. Also included in this series are blueprints from Loving's Wayne School of Aeronautics. The blueprints are mainly of the WR-1, but also include other concepts, such as the "Loving's Love III," that Loving had drawn blueprints for. The series also contains a three-view drawing of a Wayne Glider as well as a specification chart and brochure produced by the Wayne Aircraft Company to advertise its new product.

SERIES 6. *Loving's Love: A Black American's Experience in Aviation.* This series contains

the original draft of Neal Loving's book, *Loving's Love: A Black American's Experience in Aviation*, published in 1994, correspondence with his publisher, the Smithsonian Institution Press, and photographs that were submitted by Loving for publication with the book. Also included are reviews of the book and information concerning appearances Neal Loving made to promote the book.

SERIES 7. Photographs. This large series is divided chronologically by his career and then by aircraft type. Included in this series are some excellent early photographs of Loving's Wayne Aircraft Company and his World War II Civil Air Patrol unit. Also included in this series are a large number of photographs featuring his own aircraft, the WR-1, WR-2, and WR-3. There are also photographs from consumers that built their own aircraft using Loving's plans. A photo album from the Blacks in Aviation Convention, 1995, which features prominent African American aviators is included in this series.

SERIES 8: Photo Album/Scrapbooks. This oversized file contains several pages from one of Neal Loving's photo albums. The pages include photographs of the Aero Mechanics School, the Wayne Aircraft Company, and his Civil Air Patrol unit. The "Brown Scrapbook" is a record of Neal Loving's recovery after his 1944 aircraft accident. Included in this scrapbook are correspondence, cards, and photographs. The "Green Scrapbook" is a record of Loving's life in the 1950s. Included in this scrapbook are clippings from magazine articles, such as *Ebony*, as well as photographs and newspaper clippings.

SERIES 9. Clippings. This series features both newspaper and magazine clippings directly related to Neal Loving, his friends and family, and other aviation topics. The clippings are divided by those that are related to his career, aircraft, personal awards, and his personal accomplishments.

SERIES 10. Films/Videos/Audio Tape. This series contains three amateur films, three videos, and one audio tape. The films, from the 1950s and 1960s, are those of both his, and other midget aircraft. The three videos include his WR-3 in flight in 1984, an interview by Dayton's WHIO television, a 1995 television talk show featuring *Loving's Love*, and a National Management Association video that featured Neal Loving in 1995. Two of the films on Midget Aircraft are digitized and in the E-Archives (ms282_e0001). The audio tape features an interview of Neal Loving by Yvonne Duffy.

SERIES 11. Personal/Awards. This series contains numerous awards that were bestowed upon Neal Loving throughout his life. This series includes those awards received during his professional career, those that are related to his aircraft, his personal and family accomplishments, and handicapped related awards. Also included in this series are documents from special functions Loving attended. This series also contains his last resume which documents his career, papers, awards, and honors. Another file in this series contains Neal Loving's obituary, eulogies presented at his funeral, letters of condolence sent to his family, and published tributes remembering Neal Loving's life.

SERIES 12. Lectures. This series primarily consists of lecture outlines used by Neal Loving at his many speaking engagements at aviation clubs, civic organizations, museums, and schools. The series also contains a short biography detailing Neal Loving's life and accomplishments.

SERIES 13. Professional Affiliations. Within this series is documentation of the various professional organizations to which Neal Loving belonged. Some of the files contain correspondence, membership rosters, and information regarding club events.

SERIES 14. Miscellaneous Aviation-Related Material. This series contains aeronautical journals, documents regarding fellow aviators, and aviation-related project papers.

Subject Terms:

Persons/Families

Loving, Neal V., 1916- -- Manuscripts

Organizations/Corporate Names

United States. Army Air Forces

United States. Air Force

Experimental Aircraft Association

American Institute of Aeronautics and Astronautics

Wayne Aircraft Company (Detroit, Mich.)

Wayne School of Aeronautics (Detroit, Mich.)

Blacks in Aviation Convention 1995

United States. Civil Air Patrol

Places

Wright-Patterson Air Force Base (Ohio)

Subjects (General)

Aeronautics -- African American aviators -- Homebuilt aircraft

African Americans in aeronautics -- United States -- History

Air pilots -- United States

Material Types (AAT)

Audiocassettes

Videocassettes

Scrapbooks

Acetate film

Correspondence

Newspaper clippings

Photographs

Collection Inventory

Series I: Correspondence			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	1	Correspondence	1930s and 1940s
	2	Correspondence	1950s
	3	Correspondence	1961, 1969
	4	Correspondence	1967
	5	Correspondence	1970s
	6	Correspondence	1980s
	7	Correspondence	1990
	8	Correspondence	1991
	9	Correspondence	1992
	10	Correspondence	1993
	11	Correspondence: Abel-Graham	1994
	12	Correspondence: Halloran-Wofford	1994
2	1	Correspondence: Allen-Moore	1995
	2	Correspondence: Norris-Zumwald	1995
	3	Correspondence: Allen-McKellar	1996
	4	Correspondence: McLaughlin-Zumwald	1996
	5	Correspondence: Aero-Kimball	1997
	6	Correspondence: Kovnat-Poberezny	1997
	7	Correspondence: Robinson-Zumwald	1971-1997
3	1	Correspondence: from Neal V. Loving	1971-1997
Series II: College Career: Wayne State University			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	2	Student Report: Dimensional Analysis/EM-55	Jan 8, 1960
	3	Student Report: The Design and Construction of a Folding Wing Roadable Type Aircraft	
	4	Senior Project: Modification Program on Roadable Airplane (WR-2)	May 31, 1961
	5	Student ID, Admissions Information, Commencement, Diploma	

Series III: Flight Logs and Flight Certificates			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	6	Flight Log: 06-04-1938 to 07-30-1941/Student Pilot Certificates/ Before/After Accident Flight Time Certificate/ Photo- BT-13	
	7	Flight Log: 08-31-1947 to 07-25-1948/ Temporary Ground Instructor Certificate/ Waiver of Physical Standing	
	8	Flight Log: 09-21-1949 to 11-17-1950	
	9	Flight Log: 12-01-1950 to 03-29-1952/ 351C Flying Time- 1950	
	10	Flight Log: 03-29-1952 to 09-11-1954	
	11	Flight Log: 09-12-1954 to 08-25-1955	
	12	Flight Log: 08-26-1955 to 08-02-1970	
	13	Flight Log: 08-04-1970 to 11-20-1970/ FAA Change of Address	
	14	Flight Log: 05-29-1980 to 08-06-1994/ Medical Certificate	
Series IV: Civil Service Career – United States Air Force			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	15	<i>Who's Who: Air Force Flight Dynamics Laboratory</i>	
4	1	HICAT Survey Trip Report	1966
	2	Program- American Institute of Aeronautics and Astronautics, 2 nd Annual Meeting and Technical Demonstration – 1965 Report of Proceedings International Association of Meteorology and Atmospheric Physics - 1967	
	3	HICAT Survey Flights	
	4	American Institute of Aeronautics and Astronautics conferences: 1965, 1971/ Conference: 6 th International Council of the Aeronautical Sciences-1968/ Bulletin of the American Meteorological Society- 1971	
	5	Book: Clean Air Turbulence and Its Detection- 1969. Neal Loving- pp. 127-143/511-513	
	6	Reports by Neal Loving: High Altitude Clear Air Turbulence	
	7	Final Report: F-15 Composite Speed Brake	1975
	8	Final Report: Composite Wing/Fuselage Program	1989
5	1	Temporary Duty Order (TDY)	1962-1964
	2	Temporary Duty Order (TDY) / Passport photos	1965-1966
	3	Temporary Duty Order (TDY)	1967
	4	Temporary Duty Order (TDY)	1968
	5	Temporary Duty Order (TDY)	1969
	6	Temporary Duty Order (TDY)	1970-1973
	7	Temporary Duty Order (TDY)	1974-1976

5	8	Temporary Duty Order (TDY)	1977-1981
6	1-2	Personal File: Part One/ Civil Service Photos	
	3-4	Personal File: Part Two	
Series V: Aircraft – Personal / Wayne Aircraft Company / Wayne School of Aeronautics Aircraft			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
6	5	Wayne Glider: Three View Layout/Specification Chart/Brochure	
	6-7	WR-1: N351C “Loving’s Love”	
	8	WR-3: N553A Design Data	1960
OS 36	Fol 2	Wayne School of Aeronautics Blue Prints	
Series VI: <i>Loving’s Love: A Black American’s Experience in Aviation</i>			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
6	9	Smithsonian Institution Press Correspondence/Original Draft: <i>Loving’s Love: A Black American’s Experience in Aviation</i> , pp. 1-50	
7	1	Original Draft: <i>Loving’s Love</i> , pp. 51-100	
	2	Original Draft: <i>Loving’s Love</i> , pp. 101-150	
	3	Original Draft: <i>Loving’s Love</i> , pp. 151-205	
	4	“The Adventure of Loving and His Love” Manuscript	
	5	<i>Loving’s Love</i> : Book Reviews/Promotional Appearances	
	6	Photos Submitted for Publishing of <i>Loving’s Love</i>	
	7	Photocopy of Blacks in Aviation Convention Photo Album (see Box 8, Folder 1 for more photographs)	1995
Series VII: Photographs			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
7b	1	Photos Submitted for Publishing of <i>Loving’s Love</i>	
	2	Wayne Aircraft Company	
	3	Civil Air Patrol/ Civil Service Career-United States Air Force	1942-1960s
	4	WR-1 (N351C) “Loving’s Love”	
7c	1	WR-2 (N112Y) “Roadable I”	
	2	WR-3 (N553A) Photographs	
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8	1	WR-3 (N553A) Photo Album	
	2	Consumer Built Planes from Loving's Plans	
8	3	Miscellaneous Aircraft	
8b	1	Blacks in Aviation Convention Photo Album	1995
	2	Personal Photographs	
Series VIII: Photo Album/Scrapbooks			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
9	1	Photo Album-Aero Mechanics School/Wayne Aircraft Company/ Civil Air Patrol	1935-1944
10	1	"Brown Scrapbook" Hospital Stay	1944
	2	"Green Scrapbook"	1950s
Series IX: Clippings			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
11	1	Newspaper Articles: Loving's Love Related	
	2	Newspaper Articles: Personal Award Related	
	3	Newspaper Articles: Personal Accomplishment Related	
	4	Newspaper Articles: Civil Service Career Related	
	5	Newspaper Articles: Barnett Family Related	
	6	Newspaper Articles: Aviation (not Loving) Related	
	7	Magazine Articles: Loving's Aircraft Related- Part One	
	8	Magazine Articles: Loving's Aircraft Related- Part Two	
	9	Magazine Articles: Loving's Aircraft Related- Part Three	
	10	Magazine Articles: "Loving's Love"	
Series X: Films/Videos/ Audio Tapes			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
12	1	Film: Midget E4 Plane (ms282_e0001)	1953
	2	Film: WR-3 (N553A)	Undated
	3	Film: Midget Aircraft on Grounded, in Flight at Springfield Airport (ms282_e0001)	1964
	4	Video: "Neal Loving Flying His Homebuilt Airplane" Interview by Dayton's Channel 7 (WHIO)	August 1984
	5	Video: "Loving's Love" Television Talk Show Interview with Alice Earl Jenkins	1995
	6	National Management Association, Neal Loving	Feb 21, 1995
	7	Audio Tape: Neal V. Loving Interview by Yvonne Duffy,	

		Reporter for the <u>Detroit Free Press</u>	
Series XI: Personal/Awards			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
13	1	Civil Service- United States Air Force	
	2	Personal Aircraft Related	
	3	Personal/Family Accomplishments	
	4	Handicapped Related	
	5	Special Functions	
	6	Resume	1997
	7	Air Force News Release/Obituary/Funeral Mass Program /Eulogies/Letters of Condolence/Tributes to Neal V. Loving	
14	1	Metro-Dade Aviation Department, Miami International Airport Award	Feb. 3, 1995
14B	1	Medal – For Meritorious Service to the Department of the Air Force (See Box 14, File 1 for certificate)	1969
	2	Paper Weight – Outstanding Handicapped Federal Employee Nominee (See Box 14, File 4)	1968
	3	Tie Tack and Ring	Undated
	4	Medal – Michigan Aviation Hall of Fame	Oct. 18, 1997
	5	EAA Chapter 385, Lifetime Membership Award	Oct. 1993
OS 36	Fol 1	Award Certificates a. Society of Experimental Test Pilots – Honorary Fellow b. 1998 National Aerospace Conference – Plenary Speaker c. Outstanding Handicapped Federal Employee of the Year d. Trailblazer Award e. Neil Loving Day Proclamation	Sep. 30, 1995 Oct. 1998 Undated Apr. 16, 1997 Feb. 3, 1995
OS 36	Fol 1	Pencil Drawing of Loving/Neal Loving Day Proclamation	
Series XII: Lectures			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
15	1	Aviation Clubs/Organizations	1974-1994
	2	Civic Organizations	1975-1994
	3	Eulogy	
	4	Museums	1985-1994
	5	Schools	1982-1994
	6	“Technology- Today/Tomorrow” Outline/Supplementary Information	
	7	Biographical Information/Resume	

Series XIII: Professional Affiliations			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
15	8	Experimental Aircraft Association- Newsletters	c. 1990s
	9	Experimental Aircraft Association- Rosters	c. 1990s
	10	Experimental Aircraft Association- Correspondence	1994-1995
	11	Experimental Aircraft Association- Conventions and Events	
	12	Experimental Aircraft Association- Biography of Neal Loving	
	13	Society of Experimental Test Pilots- Events/Symposium/ Banquet Info	
	14	Society of Experimental Test Pilots- Correspondence	
	15	Society of Experimental Test Pilots- Membership Lists	
	16	Wings Jamaica Aviation Centre- Newsletters	1994-1996
	17	The Vultures Soaring Club of Michigan- Newsletters/Yearly Calendar	1996-1997
	18	The Vultures Soaring Club of Michigan- Correspondence	1995-1996
	19	The Vultures Soaring Club of Michigan- Banquet Info/Photos	1996
	20	The Wright "B" Flyer- General Information	c. 1990s
	21	The Wright "B" Flyer- Correspondence/Newsletters	1994-1996
	22	The Wright "B" Flyer- Agendas and Minutes	1994-1997
16	1	The Wright "B" Flyer- President's Reports and Budgets	1995-1997
	2	Formula V Air Racing Association- Info and Newsletters	1995-1998
	3	Silver Wings Fraternity	c. 1990s
Series XIV: Miscellaneous Aviation-Related Materials			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
16	4	Aviation Journals- <u>Homebuilt Aircraft</u> (Encapsulated copy in Location 59, File 11)	1952
	5	Aviation Journals- <u>Experimenter</u>	1954, 1956
	6	Jack Laister- Miscellaneous Information	
	7	Ralph Charles- Miscellaneous Information	1920s-1990s
	8	Willie A. Perry- Non-Heat Ramjet	1997
	9	Col. David W. Milam-United States Air Force-"Integrating the Human Into the Design Process"	1983
OS 85	4	WR-1 Blueprints	1955