

**FINDING AID FOR THE  
ROBERT W. SWEGINNIS PAPERS  
1953-2003**

**COLLECTION INFORMATION**

**Creator:** Sweginnis, Robert W. (1940-2004)

**Title:** Robert W. Sweginnis Papers, 1953-2003

**Extent:** 9.66 linear feet

**Collection Number:** MS-008

**ADMINISTRATIVE INFORMATION**

**Acquisition Information:** This material was part of a donation in memory of Robert W. (Bob) Sweginnis by the Sweginnis family to Embry-Riddle Aeronautical University, Prescott Campus Library in December 2004. Because of their nature and subject matter, the items comprising this collection were judged to be more appropriate for the Archives and were transferred from the Library in December 2005. Archives accession number 2005-008.

**Access:** Open, except for items noted as restricted on the inventory. Consult archives staff for information about restricted material

**Preferred Citation:** [Item title or description]. Robert W. Sweginnis Papers (MS-008). Aviation Safety and Security Archives, Embry-Riddle Aeronautical University, Prescott, Arizona.

**ABSTRACT**

Robert W. Sweginnis was an associate professor in the Aeronautical Science Department at Embry-Riddle Aeronautical University, Prescott Campus. The Sweginnis Papers contain course materials on aviation safety; photographs (chiefly slides) and videos used as teaching tools; aircraft manuals and training material; and publications about aviation and aviation safety.

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## **BIOGRAPHICAL HISTORY**

Robert W. Sweginnis was born in Brooklyn, New York, on 25 February 1940. He attended Brooklyn Technical High School and continued his education at New York University where he earned a B.S. in aeronautical engineering in 1961. He earned an M.S. in engineering and administration from Southern Methodist University in 1973.

Sweginnis was in the Air Force Reserve Officer Training Corps (ROTC) at New York University, and he served in the United States Air Force for twenty-one years. His military service included a combat tour in Vietnam flying an F-4 Phantom fighter on 254 combat missions. He was awarded the Distinguished Flying Cross and the Vietnam Gallantry Cross with Bronze Star. He also served as an aircraft maintenance officer, instructor pilot, unit operations officer for his tactical fighter squadron, safety engineer, and aircraft accident investigator. Sweginnis spent three years at Wright-Patterson Air Force Base managing system safety for the development of the A-10 Thunderbolt II. His final assignment was at the Air Force Safety Center, and he retired with the rank of Lieutenant Colonel in 1982.

Following his retirement from the Air Force, Sweginnis taught at the University of Southern California and worked for Lockheed Corporation and General Dynamics. After a move to Arizona, he taught courses in aerodynamics, aircraft performance, and aviation safety at Embry-Riddle Aeronautical University, Prescott Campus, where he was assistant professor (1992-1996) and then associate professor (1996-2004) in the Aeronautical Science Department. With Richard H. Wood, Sweginnis co-authored *Aircraft Accident Investigation* in 1995 (Casper, Wyo.: Endeavor Books).

On 28 August 2004, Sweginnis and Embry-Riddle Chief Flight Instructor Mike Corradi were practicing aerobatic maneuvers in preparation for the 2004 Prescott Air Fair when their aircraft collided in midair. Both men were killed in the accident.

## **SCOPE AND CONTENT**

These papers document Robert W. Sweginnis' involvement and interest in aviation safety education and aviation training. In addition to files related to courses taught by Sweginnis at Embry-Riddle Aeronautical University, University of Southern California, and elsewhere, the collection contains accident investigation guides, manuals and other information on specific aircraft and equipment, and reference materials on aviation and safety topics. The collection also contains a small amount of material from Embry-Riddle's flight training department.

Topics represented in these files include aviation safety, aircraft accident investigation, meteorology and weather-related aviation issues, aircraft engines and engine maintenance, aircraft performance, material factors, human factors, system safety, midair collisions, flight training, fuel systems, aircraft structures, crashworthiness, aircraft design, rotorcraft, instrument flight rules (IFR), failure analysis, risk assessment, electron fractography, upset recovery, bird strikes, runway safety, takeoff safety, fire, data recorders,

simulators, flight controls, braking, and tires. Also included is information on the International Society of Air Safety Investigators (ISASI), the Flight Safety Foundation, Jerome Lederer, and S. Harry Robertson.

Manuals, reports, and safety information are included for aircraft manufactured by Beechcraft, Boeing, Cessna, Piper, and Republic, as well as manuals and parts catalogs for Avco Lycoming engines. Manuals, training guides, and other information for military aircraft are also included; aircraft represented are the A-4M Skyhawk; B-52 Stratofortress; F-4 Phantom II; F-5E Tiger II; F-15 Eagle; F-16 Fighting Falcon; F/A-18 Hornet; OV-10A Bronco; T-28B/C Trojan; T-34C Mentor; T-38A Talon; T-41A Mescalero; and the TS-2A, US-2A/B/C/ Tracker.

## **ARRANGEMENT**

The Sweginnis Papers are organized in seven series, one of which--Audio Visual Material--is comprised of two subseries.

Series 1. Course Materials, 1981-2003

Series 2. Embry-Riddle Aeronautical University-Prescott, Flight Department, 1980-2003

Series 3. United States Air Force, 1978-1987

Series 4. United States Navy and Marine Corps, 1973, 1994-2000

Series 5. Aircraft, Engines, and Other Equipment, 1971-1999

Series 6. Reference Material, 1953-2003

Series 7. Audio Visual Material

    Subseries 1. Photographic Material

    Subseries 2. Video Recordings

The collection was received with no original order. This arrangement was imposed by the archives during processing.

## **SERIES DESCRIPTIONS AND INVENTORIES**

### **Series 1. Course Materials, 1981-2003**

**Extent:** 18 folders

This series contains materials related to courses taught by Sweginnis at Embry-Riddle Aeronautical University, University of Southern California, and elsewhere. Included are course outlines, syllabi, lecture notes and outlines, supplemental and reference materials, transparencies, lesson plans, and statements of learning objectives.

#### **Series 1 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	1-11	Embry-Riddle Aeronautical University, Prescott Campus. AS 356 Aircraft Systems and Components	1991-2003
1	12	Embry-Riddle Aeronautical University, Prescott Campus. SF 330 Aircraft Accident Investigation, Fall 1999	1999
1	13	Embry-Riddle Aeronautical University, Prescott Campus. SF 345 Safety Program Management, Spring 1999	1998-1999
1	14	Mishap/Accident Investigation and Management Course. Structures Investigation	undated
1	15-16	University of Southern California, Institute of Safety and System Management. MORT Seminar (Management Oversight and Risk Tree)	1981-1982
1	17-18	U.S. Air Force. System Safety Management	2000

### **Series 2. Embry-Riddle Aeronautical University, Prescott Campus, Flight Department, 1980-2003**

**Extent:** 3 folders

This series contains guides and aircraft inspection program information used by the flight training program at Embry-Riddle Aeronautical University.

#### **Series 2 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	19	Airport Qualification Guide FA-110 and Supplement	2000
1	20	In-Flight Guide	2003
1	21	Piper Programmed Inspection: Seminole PA-44-180	1980

**Series 3. United States Air Force, 1978-1987**

**Extent:** 17 folders

This series contains materials produced by various organizations within the United States Air Force (USAF) or related to Air Force aircraft. The bulk of the series consists of materials used by the Air Force Test Pilot School. The series also contains guides for mishap (i.e., accident) investigation and information on the F-4 fighter jet. Flight and operator's manuals for Air Force aircraft are filed in Series 5, Aircraft, Engines, and Other Equipment.

**Series 3 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	22-23	"F-4 stuff." Topics include squadron management; accident investigation; F-4 canopy system; flying qualities; flight control system; takeoff and landing; fuel system; powerplant; ground ops; egress; structures; hydraulics; instruments; and miscellaneous. Also includes an index.	1978, n.d.
1	24	Safety Investigation Workbook. AFP 127-1 Vol. III	1987
1	25	U.S. Air Force Guide to Mishap Investigation. AFP 127-1 Vol. I	1987
1	26	USAF Test Pilot School. Folder 1. Performance Theory and Flight Test Techniques, Pitot-Statics Handout	1984
1	27	USAF Test Pilot School. Folder 2. Performance Theory and Flight Test Techniques, Chapter 2, Subsonic Aerodynamics -- Study Guide	1984
1	28	USAF Test Pilot School. Folder 3. Performance Theory and Flight Test Techniques, Chapter 4, Climb and Descent Performance	1984
1	29	USAF Test Pilot School. Folder 4. Performance Theory and Flight Test Techniques, Chapter 6, Takeoff and Landing	1984
1	30	USAF Test Pilot School. Folder 5. Performance Theory and Flight Test Techniques, Chapter 7, Cruise Performance	undated
1	31	USAF Test Pilot School. Folder 6. Performance Theory and Flight Test Techniques, Cruise Steady State Performance Course Handout	undated
1	32	USAF Test Pilot School. Folder 7. Performance Theory and Flight Test Techniques, Chapter 8. Turning Performance	1985
1	33	USAF Test Pilot School. Folder 8. Flying Qualities Theory and Flight Test Techniques, Chapter 4, Longitudinal Static Stability	1984
1	34	USAF Test Pilot School. Folder 9. Flying Qualities Theory and Flight Test Techniques, Chapter 5, Maneuvering Flight	1984
1	35	USAF Test Pilot School. Folder 10. Flying Qualities Theory and Flight Test Techniques, Chapter 6, Lateral-Directional Static Stability	1983
1	36	USAF Test Pilot School. Folder 11. Flying Qualities Theory and Flight Test Techniques, Chapter 7, Dynamics	1984
1	37	USAF Test Pilot School. Folder 12. Flying Qualities Theory and Flight Test Techniques, Chapter 8, Roll Coupling	1984

**Series 3. United States Air Force, 1978-1987**

**Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	38	USAF Test Pilot School. Folder 13. Flying Qualities Theory and Flight Test Techniques, Chapter 9, Stall/Post-Stall/Spin Theory	1980

**Series 4. United States Navy and Marine Corps, 1973, 1994-2000**

**Extent:** 17 folders

This series contains materials used by the U.S. Navy and Marine Corps. The bulk of the series consists of training material and other information related to the F/A 18 Hornet fighter jet. The series also contains an aircraft accident investigation handbook, an outline for a course on ASO Structures at the Naval Postgraduate School, and flight training material for the T-34C trainer aircraft. Flight and training manuals for naval aircraft are filed in Series 5, Aircraft, Engines, and Other Equipment.

**Series 4 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	39	FA-18. Folder 1. Marine Fighter Attack Training Squadron 101: Standard Operating Procedures (SOP) for Flight Operations	1999
1	40	FA-18. Folder 2. MDI Display Indicator Group. AFAM-009. Workbook ID# ET-1.9-WB	1994
1	41	FA-18. Folder 3. NAV Mode HUD Symbology. AFAM 007. Workbook 1.7-WB	2000
1	42	FA-18. Folder 4. Performance Data Workbook. AFAM 043. Workbook 4.7-WB	1994
1	43	FA-18. Folder 5. FA-18B/D Aircraft Limitations. AFAM 044. Student workbook ID# ET-104.8.1	1995
1	44	FA-18. Folder 6. Cockpit Coupling Interface, F/A-18D. AFAM 060. Workbook ID# 102.0.1	1994
1	45	F/A-18 CAT IV. Folder 1. Cross Country Servicing Workbook. AFAM 066. Workbook 7.4-WB	1994
1	46	F/A-18 CAT IV. Folder 2. Instrument Flight Planning Workbook. AINT 004. Workbook 45.8-WB	1994
1	47	F/A-18 CAT IV. Folder 3. VMFAT-101 Aircrew Coordination Manual	1999
1	48	F/A-18 CAT IV. Folder 4. Crosswind/Wet Runway Landings and a Few Other Points	undated
1	49-50	F/A-18 CAT IV. Folders 5 and 6. CAT IV Initial Issue	ca. 2000
1	51	F/A-18 CAT IV. Folder 7. CAT IV Simulator Briefing Guides	ca. 2000
1	52	F/A-18 CAT IV. Folder 8. CAT IV Flight Briefing Guides	ca. 2000

**Series 4. United States Navy and Marine Corps, 1973, 1994-2000**

**Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
1	53	Naval Air Training Command. "Flight Training Instruction, Familiarization, Primary T-34C, NFO." CNAT P-842 (REV 08-00) PAT	2000
1	54	Naval Postgraduate School, Aviation Safety Programs: ASO Structures Outline	undated
1	55	U.S. Naval Safety Center "Handbook for Aircraft Accident Investigation" NAVAIR 00-80T-67	1973

**Series 5. Aircraft, Engines, and Other Equipment, 1971-1999**

**Extent:** 26 folders and 29 volumes

This series contains manuals, parts catalogs, books, case studies, and safety reviews for specific aircraft as well as for aircraft engines and other equipment. Included is information on Beechcraft, Boeing, Cessna, and Piper airplanes as well as on U.S. Air Force and Navy aircraft. Also included are manuals and a parts catalog for Avco Lycoming aircraft engines as well as manuals for the AV-8 voice alerting engine monitor and the Apollo 800 Flybuddy.

[Note, manuals are not kept current and therefore cannot be used as a substitute for the current official FAA approved manual. They may be used for general information purposes only.]

**Series 5 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
		<i>Audio Flight Avionics</i>	
2	1	AV-8 Voice Alerting Engine Monitor Users Manual	ca. 1995
		<i>Avco Lycoming</i>	
2	2	IO-320, AIO-320, LIO-320, and AEIO-320 Wide Cylinder Flange Series Aircraft Engines. Parts Catalog, PC-303	1976, 1985
	MS-008 x001	O-320 and IO-329 Series Aircraft Engines. Operator's Manual.	1971
		<i>Beechcraft</i>	
	MS-008 x002	Beechcraft Debonair 35-C33A and Bonanza E33A; E33C Acrobatic (see Flight Manual Supplement). Pilot's Operating Handbook and FAA Approved Airplane Flight Manual. [Note, this manual is not kept current and therefore cannot be used as a substitute for the current official FAA approved manual. It may be used for general information purposes only.]	1996
	MS-008 x003	Beechcraft Duchess 76. Pilot's Operating Handbook and FAA Approved Airplane Flight Manual. [Note, this manual is not kept current and therefore cannot be used as a substitute for the current official FAA approved manual. It may be used for general information purposes only.]	1994

**Series 5. Aircraft, Engines, and Other Equipment, 1971-1999****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
		<i>Boeing</i>	
2	3-4	Boeing Flight Operations Engineering. Jet Transport Performance Methods: 737 747 757 767. 7th edition. D6-1420.	1989
	MS-008 x004	Cook, William H. <i>The Road to the 707: The Inside Story of Designing the 707</i> . Bellevue, Wash.: TYC Publishing Co., 1991.	1991
2	5-6	KC-135/KC-135R. Includes KC-135 Aerodynamic Flight Characteristics and KC-135R Aircraft Performance Characteristics	1987
	MS-008 x005	Minton, David H. <i>The Boeing 747</i> . Aero Series 40. Blue Ridge Summit, Penna.: TAB/Aero Books, 1991.	1991
	MS-008 x006-7	People Express Airlines, Inc. Boeing 727 Model 727-227, 232, 243. Operations Manual. Volumes 1 & 2.  "Takeoff Safety Training Aid. Boeing Data." See Series 5, Reference Material, file 3/12	1985
		<i>Cessna</i>	
2	7	AOPA Air Safety Foundation, "Safety Review: Cessna 182"	1993
2	8	AOPA Air Safety Foundation, "Safety Review: Cessna C-172 / Skyhawk"	1995
2	9	AOPA Air Safety Foundation, "Safety Review: Cessna P210"	1992
2	10	Cessna Pilots Association. Cessna 210 Systems and Procedures Course	1999
	MS-008 x008	Cutlass. 1983 Model 172Q. Information Manual	1982
	MS-008 x009	Cutlass RG. 1980 Model 172RG. Information Manual	1991
	MS-008 x010	Pilot Safety and Warning Supplements	1992
	MS-008 x011	Pilot Safety and Warning Supplements	1998
2	11	Progressive Care and Continuous Inspection Operations Manual (Single-engine).	undated
2	12	Skyhawk. Model 172. Supplemental Materials	1996
	MS-008 x012-13	Skyhawk. Model 172S. Information Manual. (2 copies)	1998
	MS-008 x014	Skylane. 1978 Model 182Q. Pilot's Operating Handbook	1977
	MS-008 x015-16	Skylane RG. 1979 Model R182. Information Manual. (2 copies)	1978



**Series 5. Aircraft, Engines, and Other Equipment, 1971-1999****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
		<i>Cessna (cont.)</i>	
	MS-008 x017	Stationair. 1976 Model U206F. Pilot's Operating Handbook	1976
		<i>General Dynamics</i>	
2	13	Droste, Carl S., and James E. Walker. "The General Dynamics Case Study on the F-16 Fly-By-Wire Flight Control System"	1980
		<i>II Morrow</i>	
	MS-008 x018	Apollo 800 Flybuddy. Pilot's Operating Manual	1991
		<i>Northrop</i>	
	14	F-5E Spin Investigation. NOR 72-153	1973
	15	Special Investigation of F-5E Low Speed Characteristics. AR-73-8	1973
	16	Stuart, William G. "Northrop F-5 Case Study in Aircraft Design" AIAA Professional Study Series	1978
		<i>Piper</i>	
2	17	AOPA Air Safety Foundation, "Safety Review: Piper Malibu/Mirage Model PA-46"	1994
	MS-008 x019	Cherokee 235. PA-28-235. Owner's Handbook	1981
	MS-008 x020	Cherokee Warrior. PA-28-151. Information Manual	1976
		Piper Programmed Inspection: Seminole PA-44-180. See Series 2, Embry-Riddle Aeronautical University, Prescott Campus, file 1/21	1980
		<i>Republic</i>	
2	18	<i>Pilot's Manual for Republic P-47 Thunderbolt</i> . Milwaukee, Wisc.: Aviation Publications, 1973.	1973
		<i>U.S. Air Force</i>	
2	19	B-52 Training Program (Pilot) "'Time for Action' Again," 93d Bombardment Wing, Castle AFB, Calif.	1986
		F-4. See Series 3, United States Air Force	
	MS-008 x021	F-15/A/B/C/D, USAF Series Aircraft, Block 7 and Up. Flight Manual. TO 1F-15A-1	1986
	MS-008 x022	F-16A/B, USAF/EPAF Series Aircraft. Flight Manual (with inserted notes on performance calculations). T.O. 1F-16A-1	1983
2	20	T-38A, USAF Series Aircraft. Flight Manual. T.O. IT-38A-1	1974
2	21	United States Air Force Aero Club Program. T-41A Operator's Manual	undated

**Series 5. Aircraft, Engines, and Other Equipment, 1971-1999****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
		<i>U.S. Navy</i>	
	MS-008 x023	A-4M Aircraft (Navy Model). NATOPS Flight Manual NAVAIR 01-40AVM-1	1975
	MS-008 x024	A-4M Aircraft (Navy Model). NATOPS Flight Manual NAVAIR 01-50AVM-1	1987
2	22	FA-18 Pilot Training Manual. Gladiators VFA-106.	1985
	MS-008 x025	F/A-18A and TF/A-18A 16153 and Up Aircraft (Navy Model). NATOPS Flight Manual A1-F18AC-NFM-00	1984
2	23-26	F/A-18A/B/C/D 161353 and Up Aircraft (Navy Model). NATOPS Flight Manual A1-F18AC-NFM-000	1994-1997
		F/A 18. See also Series 4, United States Navy and Marine Corps	
	MS-008 x026	OV-10A Aircraft (Navy Model). NATOPS Flight Manual NAVAIR 01-60GCB-1	1974
	MS-008 x027	T-28B/C Aircraft (Navy Model). NATOPS Flight Manual NAVAIR 01-60FGB-1. <b>**RESTRICTED**</b>	1972
2	27	T-34C (Navy Model). NATOPS Flight Manual NAVAIR 01-T34AAC-1	1998
	MS-008 x028	TS-2A, US-2A/B/C Aircraft (Navy Model). NATOPS Flight Manual NAVAIR 01-85SAA-1. <b>**RESTRICTED**</b>	1970

**Series 6. Reference Material, 1953-2003****Extent:** 48 folders and 10 volumes

This series contains books, reports, magazines, articles, and other printed material about aviation safety, system safety, and aviation.

**Series 6 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
3	1	"101 Ways to Extend the Life of Your Engine. A Guide for Aircraft Owners" by the editors of <i>TBO Advisor</i>	1993
3	2	Aviation Weather Services, vols. 1 and 2, Qref	1997
3	3	<i>Aeronautical Chart User's Guide</i> . 3d edition. Washington, D.C.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration	1991
3	4	Airplane Upset Recovery Training Aid	undated
3	5	American Airlines. <i>Flight Safety Anthology</i>	ca. 2001

**Series 6. Reference Material, 1953-2003****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
3	6	AOPA Air Safety Foundation. "Aircraft Icing"	1994
3	7	AOPA Air Safety Foundation. "How to Avoid a Midair Collision" (2 copies)	1992, 1994
3	8	AOPA Air Safety Foundation. Runway Safety Flash Cards	undated
3	9	AOPA Air Safety Foundation. "Weather, Flight Planning, and the Pilot"	1994
3	10	<i>Aviation Safety</i> , vol. XV, no. 10 (15 May 1995)	1995
	MS-008 x029	<i>Aviation Weather for Pilots and Flight Operations Personnel</i> . AC 00-6A Revised 1975. Washington, D.C.: ASA Publications, 1982	1982-1996
3	11	<i>Aviation Weather Formats: METAR/TAF</i> , FAA/ARW-200/99/001	1999
	MS-008 x030	<i>Aviation Weather Services</i> AC00-45C. Washington, D.C.: U.S. Dept. of Commerce, National Weather Service; U.S. Dept. of Transportation, Federal Aviation Administration, 1985	1985
	MS-008 x031	<i>Aviation Weather Services</i> AC00-45E. Washington, D.C.: U.S. Dept. of Commerce, National Weather Service; U.S. Dept. of Transportation, Federal Aviation Administration, 1999	1999
3	12	Boeing, "Takeoff Safety Training Aid: Boeing Data." Boeing model specific data for use with <i>Takeoff Safety Training Aid</i> (FAA Draft Advisory Circular 120-TO). See also FAA Draft Advisory Circular AC 120-XX "Takeoff Safety Training Aid" in file 3/35	ca. 1994
	MS-008 x032	Chandler, Richard F., ed. <i>Aircraft Crashworthiness PT-50</i> . Warrendale, Penna.: Society of Automotive Engineers, 1995	1995
3	13	Cheek, William V., and Associates (Aviation Consulting). Airport Land Use Compatibility and Air Safety Study for Prince George's County, Maryland	2000
3	14	Cheek, William V., and Associates (Aviation Consulting). Airport Land Use Compatibility and Air Safety Study for the Maryland-National Capital Park and Planning Commission, Upper Marlboro, Maryland	2000
3	15	Clemens, P. L. (Sverdrup Technology). "System Safety Scrapbook"  Cook, William H. <i>The Road to the 707: The Inside Story of Designing the 707</i> . Bellevue, Wash.: TYC Publishing Co., 1991. See series 5, Aircraft, Engines, and Other Equipment,	1998
3	16	Crawford, Donald R. "Airplane Design" Parts 1, 2, 4-9, <i>Kitplanes</i> (February-October 1985)	1985
	MS-008 x033	Dole, Charles E. <i>Fundamentals of Aircraft Material Factors</i> . 2d edition. Casper, Wyo.: IAP, Inc., 1989	1989
3	17	Dole, Charles E., and Richard H. Wood. <i>Flight Safety Workbook</i> . Torrance, Calif.: Southern California Safety Institute, 1993	1993

**Series 6. Reference Material, 1953-2003****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
3	18	Fighter Combat International (FCI), Emergency Maneuver Training (includes CD)	2003
3	19	Frey, Jay J. <i>How to Fly Floats</i> . College Point, N.Y.: EDO Corp., 1972	1972
	MS-008 x034	Hawkins, Frank H. <i>Human Factors in Flight</i> . 2d edition, ed. Harry W. Orlady. Aldershot, England: Avebury Aviation; Ashgate Publishing, 1995	1995
3	20	Holley, John M. <i>Aviation Weather Services Workbook</i> . EA-380. Casper, Wyo.: IAP, Inc., 1991	1991
3	21	"How to Lean Direct Drive Normally Aspirated Engines"	undated
3	22	<i>IFR Refresher</i> , vol. 9 (1995)	1995
	MS-008 x035	International Society of Air Safety Investigators (ISASI) Member's Handbook. Includes by-laws, code of ethics, bibliography (ISASI publications 1969-1992), 1999 membership roster, and 1990 Los Angeles Regional Chapter roster	1983-1999
3	23	"Jerry Lederer: Mr. Aviation Safety" Special Issue of <i>Flight Safety Digest</i> (Aug.-Sept. 2002)	2002
	MS-008 x036	Kershner, William K. <i>The Advanced Pilot's Flight Manual</i> . 5th edition. Ames, Ia.: Iowa State University Press, 1992	1992
3	24	Lipson, Charles. "Basic Course in Failure Analysis. Lesson 1: How Parts Can Fail; Importance of Stress" <i>Machine Design</i> (16 Oct. 1969)  Minton, David H. <i>The Boeing 747</i> . Aero Series 40. Blue Ridge Summit, Penna.: TAB/Aero Books, 1991. See series 5, Aircraft, Engines, and Other Equipment	1969
3	25-27	Moore et al. "An Improved Approach for Flight Readiness Certification -- Methodology for Failure Risk Assessment and Application Examples," JPL Publication 92-15, vol. 1, 1992. (Paper copy and microfiche copy)	1992
3	28	Nertney, R. J., J. L. Clark, and R. W. Eicher. "Occupancy-Use Readiness Manual - Safety Considerations" ERDA-76-45-1; SSDC-1; UC-41	1975
3	29	Phillips, A., V. Kerlins, and B. V. Whiteson. "Electron Fractography Handbook" Technical Report ML-TDR-64-416	1965
3	30-31	Robertson Aviation Range Extension Fuel Systems. Also includes information on S. Harry Robertson, Aircraft Crash Investigation Short Courses, GE F110 Engines, and Flight Safety Foundation	1988-1989, n.d.
3	32	Roed, Aage "Flight Safety for Aviation Personnel"	1989

**Series 6. Reference Material, 1953-2003****Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
3	33	Rotorcraft information. Includes material on helicopter flight controls and aerodynamics; helicopter and gyroplane accident investigation; and advancing/retreating blade stall	undated
3	34	<i>Service Manual for the Doctor of Motors</i> . 3d edition. Hagerstown, Ind.; Toronto: Perfect Circle Corporation, 1953	1953
3	35	Spinacity, Inc. "Decathlon Spin Characteristics." Embry-Riddle Aeronautical University, Prescott Campus student group project for aerospace engineering course taught by James C. Biggers. **RESTRICTED**	2001
3	36	"Takeoff Safety Training Aid". FAA Draft Advisory Circular AC 120-XX. See also "Takeoff Safety Training Aid: Boeing Data" in file 3/12	1992
3	37	<i>TBO Advisor</i> vol. 1 no. 5 - vol. 2 no. 5, vol. 3 no. 3 (Sept./Oct. 1993 - Sept./Oct. 1994, May/June 1995)	1993-1995
3	38	Thomas, Kas. "Modern Aircraft Engines: A Guide to the Elements of Your Airplane's Powerplant" excerpted from <i>The LPM Engine Operating Guide</i>	1985
	MS-008 x037	Thomas, Kas. <i>Light Plane Maintenance: Aircraft Engine Operating Guide</i> . Hanover, Penna.: Sheridan Press, 1985	1985
3	39-43	University of Southern California (USC) binder on various safety topics, includes Mid Air Collisions, Fire, Crashworthiness, Data Recorders (including Sweginnis paper on "Flight Data Recorders for USAF Fighter/Attack/Trainer Aircraft"), Simulators, and Photography	1960-1986, n.d.
4	1-4	University of Southern California (USC) binder on various safety topics, includes engines, fuel systems, flight controls, structure, material factors, braking/tires, and birdstrikes	1965-1984, n.d.
4	5	U.S. Air Force Directorate of Aerospace Safety, "First United States Military Aircraft Accident, Mr. Orville Wright and Lt. Thomas E. Selfridge, 17 September 1908" (copy of 1909 report by Aeronautical Board of the Army Signal Corps)	undated
4	6	U.S. Congress, Office of Technology Assessment. "Safe Skies for Tomorrow: Aviation Safety in a Competitive Environment"	1988
4	7	U.S. Nuclear Regulatory Commission. "Fault Tree Handbook," NUREG-0492	1981

## **Series 7, Audio Visual Material, 1970-1999**

This series contains photographic material and videorecordings used for teaching purposes, as well as some photographic images which may have been chiefly for personal use.

### **Subseries 1, Photographic Material, 1970s-1990s**

This subseries contains 35mm photographic slides and color negatives. The slides include photographs, charts, and other illustrations used for teaching purposes, as well as some images (air shows and individuals with airplanes) which may have been for personal use. The color negatives contain images found in the slides. Image content includes aircraft involved in accidents; accident sites; the U.S. Air Force Aircraft Crash Investigation Laboratory operated by the University of Southern California for the U.S. Air Force Inspection and Safety Center; air shows; Embry-Riddle Aeronautical University aircraft involved in a midair collision; aircraft structures; engines; wings; and fire investigations. Specific topics include accident investigation; microbursts; flight control and landing gear systems; pneumatic/pitot static; human factors; landing and stopping criteria; and fuel systems.

### **Subseries 2, Video Recordings, 1985-1999**

This subseries contains videorecordings on aviation, safety, and security topics. Video formats are VHS videotapes and one DVD copy of a VHS videotape.

### **Series 7, Subseries 2 Inventory**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
5		Air Transport Association of America, Ground Security Coordinator and Aviation Security training programs. Contents include preventive security, explosive devices, flammable liquids as a weapon, and deadly cargo. <b>**RESTRICTED**</b> VHS video tape, 68:00	1985
5		"Aviation Technology and Human Values: Securing Safer Skies." Lectures presented at Embry-Riddle Aeronautical University, Prescott Campus during the 1990-1991 academic year. Discussion Leader's Guide accompanies video tape. Speakers include: Col. Mal Wakin, "Morality and Military Technology"; Charles "Pete" Conrad, "Ethical Quandaries in Space Exploration"; S. Harry Robertson, "Air Safety Ethical Concerns"; Scott Incerto, "Ethics in Aviation Law: Whose responsibility?"; Dr. Robert Batchelder, "Industry Initiatives to Promote Ethical Standards"; and, David Vaughan, "Ethics in Aviation: The Pilot's, the Airline's, and the Government's Viewpoints." VHS video tape, 59:00.	1991
5		Big Mouth F-16 Te. Film of maneuvers where pilot cannot deploy chute. VHS video tape, 8:40.	undated

**Series 7, Audio Visual Material, 1970-1999**

**Subseries 2, Video Recordings, 1985-1999**

**Inventory (cont.)**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Dates</b>
5		50/67 Midair. Accident investigation of non-fatal midair collision of Embry-Riddle Aeronautical University, Prescott Campus planes N250ER and N267ER on 31 March 1992. Includes interview with witnesses and silent video of planes. VHS video tape, 32:40.	1992
5		ERAU ; Wingspan Air & Space Channel. "Legacy of Flight" series. VHS video tape, 43:26, and DVD copy of VHS tape, 42:09.	undated
5		Wing Stall Patterns on Dutchess, D. Samuels/B. Sweginnis, 22 March 1992; Decathlon Spins, Corradi/Sweginnis, 30 May 1999 VHS video tape, 36:36	1992-1999
5		Untitled. Vietnam flight mission VHS video tape	undated