

MS-390: Dr. Malcolm L. Ritchie Collection

Collection Number: MS-390

Title: Dr. Malcolm L. Ritchie Collection

Dates: 1949-2006 [Bulk 1960-1970]

Creator: Dr. Malcolm L. Ritchie

Summary/Abstract:

The Dr. Malcolm L. Ritchie Collection is composed of documents relating to Dr. Ritchie's career. Journals, reference books, and slides/negatives are included. Additional personal papers have been added.

Quantity/Physical Description: 39.5 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:

Copyright restrictions may apply. Unpublished manuscripts are protected by copyright. Permission to publish, quote or reproduce must be secured from the repository and the copyright holder.

Preferred Citation:

(Box Number, Folder Number), MS-390, Dr. Malcolm L. Ritchie Collection, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio

Acquisition:

Dr. Malcolm L. Ritchie donated the collection to Wright State University Special Collections and Archives on 13 June 1993.

Accruals:

Dr. Ritchie has contributed to his collection since the initial donation. On February 13, 2009, Dr. Ritchie donated personal papers, published works, and other information about his career and life. The additions were processed and finalized during the Winter of 2010. An initial donation included 20,000+ books and journals and approximately 15,000 microfilm images relating to Human Factors Engineering, Aerospace Medicine, NASA Research, etc.

Processed by: Jeremy Feador, Winter 2009. Additions, Winter 2010.

Arrangement:

The Dr. Malcolm L. Ritchie Collection is arranged into 14 series:

Series I: Personal

Subseries I A: General Information

Subseries I B: School

Subseries I C: Religion/Divinity

Subseries I D: Military

Subseries I E: Awards

Subseries I F: Misc. Personal Items

Series II: Genealogy

Subseries II A: Family Names

Subseries II B: Genealogy Reference

Series III: Family Photographs

Series IV: Family Slides

Series V: Correspondence

Series VI: Job Applications

Series VII: Ritchie Inc

Series VIII: Ritchie Inc Research/Reference and Misc.

Series IX: Malcolm L. Ritchie Writings and Publications

Series X: Ritchie Inc Publications and Reports

Series XI: Reports

Subseries XI A: Aerospace Medical Research Laboratories [AMRL]

Subseries XI B: USAF School of Aerospace Medicine Aerospace Medical Division

[AFSC]

Subseries XI C: National Aeronautics and Space Administration [NASA]

Subseries XI D: Wright Air Development Center [WADC]

Subseries XI E: Other [Alphabetized by Report]

Series XII: Journals, Articles, Misc. Papers

Series XIII: Reference

Series XIV: Microfilm and Slides

Subseries XIV A: Microfilm

Subseries XIV B: Slides

Biographical/Historical Note:

Malcolm L. Ritchie is an expert on Engineering and Professional Psychology. He entered Texas Tech as an Engineering Student during the 1940-41 term. He earned his A.A. in 1947 from Graceland College in Lamoni, Iowa. In 1948, Dr. Ritchie earned his B.A. in Psychology from the University of California at Berkeley. In 1951 he earned his MA in Sociology from the University of California at Berkeley. In 1953 he earned his PhD in Experimental Psychology from the University of Illinois, Urbana. Dr. Ritchie was awarded an honorary Doctorate. Humane Letters from Graceland University in 2008.

Malcolm Ritchie grew up in Breckenridge, Texas, and studied engineering for one year at Texas Tech before entering Army flight training in 1941. He was a night fighter pilot in the

Pacific theater during World War II, and following the war became a Graceland student in January of 1946. At Graceland he met fellow student Roberta Ann Gossadge and they were married in 1947. They continued their education together. They had three children: Karen Sue, Jennifer Kay, and William George. He continued studies at the University of California in Berkeley from 1947 to 1949, before joining the Graceland faculty. In 1951 he resumed graduate study at the University of Illinois in the new field of engineering psychology, earning the Ph.D. in 1953 and continuing on the University's research staff until 1957. He formed Ritchie Inc. in 1957 to do research and consulting on the control of machines by human operators. In that role he played a part in the development of the first three U.S. manned space vehicles.

In 1969 he became Professor of Engineering at Wright State University in Dayton, Ohio, where he established a Human Factors Engineering degree program combining control system engineering and experimental psychology. He is now Emeritus Professor of Engineering and Emeritus Professor of Professional Psychology at Wright State University. He has published about 100 scientific papers and continues consulting on the design of machines for human control. He is a Fellow of the Human Factors Society of the American Psychological Society, and is a Senior Member of the Institute of Electrical and Electronic Engineers.

He served on the Graceland College Board of Trustees from 1964 to 1976. All three of his children are graduates of Graceland, and his oldest granddaughter is now a freshman. He holds the priesthood office of patriarch in the RLDS Church. (Ritchie, Malcolm L., *Roy Cheville: The Graceland College Years*, Center for Christian Leadership, Lamoni, Iowa, 1995. Back cover)

Dr. Ritchie's first career activity was that of military and civilian pilot, in which he accumulated 4,000 hours of flight time. Since earning his PhD in 1953, he has been actively involved in research on human performance and in the design of human controlled systems. He has been an innovator in research on the nature of complex displays, and has been a leader in establishing the concept of human factors system engineering.

In 1951 he began research at the University of Illinois on air traffic control and on aircraft flight instrumentation. From 1953 to 1957 he headed a research team of the University of Illinois establishing the use of simulators for evaluation of aircraft instrument concepts at Wright Patterson AFB. He flew University aircraft regularly for research and administrative purposes. In that period he produced such papers as "Psychological Aspects of Cockpit Design," and "Integrated Instruments: A Roll and Turn Indicator."

From 1957 to 1969, as President of Ritchie Inc., he supervised as many as 41 employees in research and consultation on a variety of manned aircraft and spacecraft projects. For 7 years he was a major subcontractor to Lear Siegler establishing such cockpit concepts as the "pilot manager", and a number of control-display integration approaches. He managed a number of prime contracts with the Flight Dynamics Laboratory dealing with cockpit control-display concepts. He owned and operated a twin-engine aircraft equipped as a flying test bed for instrumentation concepts. He developed an instrumented automobile for research on the role of certain information inputs in automobile driving. He participated in the preliminary design of the Mercury and Apollo space vehicles as a subcontractor to General Electric's Missile and Space Vehicle Department. His publications during this period include "Cockpit Control-Display Subsystem Engineering", "Quickening and Damping and Aircraft Instrument Display", "What Constitutes Cockpit Simplification and When is it Desirable?," and "A Study of the relationship between forward velocity and lateral acceleration in curves during normal driving".

From 1969 to 1982, as Professor of Engineering at Wright State University, he established the academic field of mind-machine system engineering by originating a unique academic program producing graduates with formal competence in systems engineering and in experimental psychology. From 1974 to 1993 he was a consultant to the Division Advisory Group of the USAF Aeronautical Systems Division. He was a consultant to General Electric on design proposals for an Army helicopter, to Bendix on controls and displays for microwave landing, subcontractor to Rockwell North American on cockpit displays for their forward swept wing fighter proposal, and subcontractor to Canyon Research at Fort Rucker on methods of detailing helicopter flight operations for purposes of quantifying pilot performance. His publications in this period include “Beyond Linear Perspective with Computer Generated Displays”, “Using Computer Generated Displays for Research on Synthesized Displays”, “Toward a Pictorial Revolution in Complex Displays for Vehicle Control”, “Object, Illusion, and Frame of Reference as Design Criteria for Computer Generated Displays”, “A Conceptual Model of the Engineering Design Process”, “The Research and Development Methods of Wilbur and Orville Wright”, and “Choice of Speed in Driving Through Curves as a Function of Advisory Speed and Curve Signs.”

From July 1980 to July 1982, under contract between the Federal Aviation Administration and Wright State University, Dr. Ritchie spent full time as Special advisor for Human Factors System Engineering to the Director of the FAA Technical Center in Atlantic City, N.J. One of the projects during that time was to develop a graduate educational program in aviation human factors engineering to upgrade the capabilities of personnel in Atlantic City. This program was anchored in a formal academic venture initiated by the University of Pennsylvania. He continued as consultant to the USAF Aeronautical Systems Division’s Division Advisory Group.

From 1982 to 1985, as President of Ritchie Inc. and Emeritus Professor of Engineering, he was a consultant to the Director of the FAA Technical Center, to the FAA Associate Administrator for Flight Standards, and FAA Director of Operational Test and Evaluation. Publications in this period include “Mind Over Machine in Navigation and Air Traffic Control”.

From 1985 to 1993, with Midwest Systems Research, Inc. he was involved in guiding technical programs and staff development for contract research on aircraft controls and displays for the USAF and the FAA. He wrote a chapter on General Aviation for the book, *Human Factors in Aviation*, which was published in July 1988 by Academic Press. He continued as advisor to the USAF Aeronautical Systems Division’s Division Advisory Group from 1974 to 1993. From 1989 to 1991 he was a Committee Member of the National Research Council’s Air Force Studies Board. In 1990 he was a member of the FAA Scientific Task Planning Group developing a National Plan for Aviation Human Factors.

About 1970 he began serving as an expert witness in legal cases dealing with the relations between humans and machines. He has been involved in about 20 cases, given perhaps 18 depositions, and testified twice in court. The representation has been about evenly divided between plaintiff and defendant. These cases have involved automobile accidents, aircraft accidents, machine guarding, and contact with electrical wires, labels, and highway signs. Dr. Ritchie’s expertise is in the design of those portions of the machine system which have a bearing on human performance. (MS-390 Dr. Malcolm L. Ritchie Collection Box 1 File 3 Resume)

In 2013 he was superannuated in the local branch of the Community of Christ as a lay priesthood member for 60 years. He had been ordained a Priest in 1948, an Elder in 1953, a High Priest in 1964 and a Patriarch-Evangelist in 1973. He received a number of messages from

fellow members on that occasion. A complete listing of Dr. Ritchie's publications, papers, subcontracts, consulting, and prime contracts are listed on pages 3-6 of his resume.

Scope and Content

The Dr. Malcolm L. Ritchie Collection contains information pertaining to Dr. Ritchie's life as well as his career, information regarding his genealogy, service in WWII, books he has written, as well as reports and reference materials. The materials that pertain to his career deal with aeronautic and automobile engineering as well as information relating to psychology and the effects on the human body due to machines.

Series I, Personal, spans the years 1940 to 2006. It is made up of personal information relating to Dr. Ritchie. Personal items include 6 subseries. Subseries I A consists of two basic documents relating to Dr. Ritchie. Subseries I B: documents his undergraduate, graduate, and teaching career in the academic field. Subseries I C: contains notes of a religious theme. Subseries I D: contains information about Dr. Ritchie's career in the United States Military. Subseries I E: is a collection of awards won by Dr. Ritchie. The final section contains miscellaneous items that were in Dr. Ritchie's collection, all of them related to aviation..

Series II, Genealogy, spans the years 1970-2005. It is made up of genealogical research performed by Dr. Ritchie. The collection is divided into two subseries. Subseries A contains research information on particular surnames. Subseries B contains reference materials, such as books.

Series III, Family Photographs, spans the years 1940s to 1970s, and one file from 2008. The first two photographs in Box 8 Files 14 and 15 were loose photographs. Box 9 contains photographs from a family album and has retained the original order from the album.

Series IV, Family Slides, spans the years 1955 to 1972. The slides consist of family gatherings as well as vacations.

Series V, Correspondence, spans the years 1950 to 2002, and contains religion, professional, and personal topics. The series is arranged in chronological order.

Series VI, Job Applications, spans the years 1957 to 1981. It includes 7 job application forms for various positions.

Series VII, Ritchie Inc, spans the years 1956 to the dissolution of Ritchie Inc in 2001. The series consists of papers that document the financial, and day to day management of the company. Box 18 File 1 contains the seal press to make Ritchie Inc seals.

Series VIII, Ritchie Inc Research/Reference, spans the years 1954 to 1992. The series contains a variety of items relating to Ritchie Inc and its research. This also includes photographs of a leased 1956 Piper Apache (Box 19 File 2).

Series IX, Malcolm L. Ritchie Writings and Publications, spans the years 1952 to 1992. The bulk of the writings are from the 1970s. The series is a large collection of Dr. Ritchie's professional contributions to the engineering community. Also in the collection are two later books put out by Dr. Ritchie about Ray Cheville (Box 26 Files 1 and 2).

Series X, Ritchie Inc Publications and Reports, spans the years 1957 to 1983. The series is a collection of reports written and/or published by members of Ritchie Inc. Reports by members of Ritchie Inc also appear in Series XI, however they are a part of different journals.

Series XI, Reports, spans the years 1949 to 1990 with majority of the collection centered between the 1960s and 70s. The reports relate to Dr. Ritchie's career as an engineer and with psychological aspects of his research. The reports are broken into several subseries. The first four

subseries are arranged by agency that created the records. They are chronologically arranged, and when dates are the same, they are further arranged alphabetically. Oversized reports are physically located in an oversized box, however, descriptions are found in the proper subseries.

Subseries II A, Aerospace Medical Research Laboratories, contains reports that were created in 1967 with the exception of the last report created in 1970. The reports subjects range from the affects diets have on the human body in different aeronautic situations to the ejection speeds effect on the human spinal column. The reports overall concern is with medical issues and the relationship to aeronautics.

Subseries II B, USAF School of Aerospace Medicine Aerospace Medical Division, is centered on the year 1967. Similar to Subseries A, Subseries B deals with medical topics concerning aeronautics. The reports also deal with the psychological aspects of medical research. Topics such as the psychological effect of sleep deprivation as well as Human Physiologic Response to Prolonged Rotation and Angular Acceleration.

Subseries II C, National Aeronautics and Space Administration, contain reports spanning the years 1965 to 1976, with one report from 1991. The reports are concerned with the mechanical aspect of aeronautic travel. The reports are arranged in chronological order.

Subseries II D, Wright Air Development Center, contains reports from 1959. The reports relate to the medical aspect of flight rather than a mechanical aspect. The reports are arranged in chronological order.

Subseries II E, Other, is arranged in alphabetical order by the report number listed on the report. There is no particular theme to the reports. The reports span the period 1960s-1990s. There may be two or three reports produced by the same organization, however to have a separate subseries the number was set at four.

Series XII, Journals, Articles, Misc Papers, contains papers that Dr. Ritchie collected over his career. The articles are arranged in chronological order. The earliest is from 1958, while the bulk covers the 1960s, and one article from 1990. The series has no particular theme, but covers mechanical as well as medical and psychological themes. Several articles are located in an oversized box. These articles are listed in the finding aid with a reference to the oversized location.

Series XIII, Reference, contains reference materials used by Dr. Ritchie. The topics vary. The information is arranged chronologically. The time span is 1959-1990, with the bulk in the 1960s, and one item from 1990.

Series XIV, Microfilm and Slides, contains primarily technical reports on microfilm and a small collection of slides. The information on the microfilm has not been viewed; however, the technical report number is listed in the finding aid. The slides are also labeled.

Subject Terms:

Persons/Families

Ritchie, Malcolm L., 1920-

Organizations/Corporate Names

Graceland College (Lamoni, Iowa)

Ritchie Inc. (Dayton, Ohio)

Aerospace Medical Research Laboratories (U.S.)

USAF School of Aerospace Medicine

National Aeronautics and Space Administration
Wright Air Development Center

Subjects (General)

Airplanes—Design and construction—Human factors
Aeronautics—Human Factors
Flight—Physiological Aspects

Material Types

Glass Slides
Slides
Microfilm
Technical Reports

Occupations

Consultant
Aerospace Engineer
Human Factors Engineer

Collection Inventory

SERIES I: PERSONAL			
		Subseries IA: General Information	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	1	Malcolm Ritchie’s 80 th Birthday Information	2000
	2	Resumes	2006, Undated
		Subseries I B: School	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	3	Texas Technological College Grade Cards	1940-1941
	4	Graceland Graded Papers	1946-1947
	5	Report Card	1946-1947
	6	College Fall Semester Papers	1947
	7	“The Impact of the Protestant Reformation on the Family.” Paper	Jan. 13, 1948
	8	“Partly Rational Man: Pitirim Alexandrovich Sorokin” Paper	Sep. 3, 1948
	9	“Religion in Colonial America: A Critical Review” Paper	Sep. 3, 1948
2	1	“Drives Toward War: A Criticism” Paper	Jan. 9, 1948
	2	“The Third Revolution” Paper	May 21, 1948
	3	“Report Card” Paper	Oct.19, 1948
	4	“John Company Takes Over”	May 19, 1949

	5	Graded Papers	1949
	6	“The Family in India and the West”	1949
	7	Berkeley Diploma	Jun. 14, 1951
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
	8	“The Role of the Family in Seventeenth and Eighteenth Century Political Philosophy” Thesis	1951
	9	Berkeley Report Card	1951
	10	Course Information	1965
	11	Graceland College Alumni Distinguished Service Award Convocation	Oct. 19, 1966
	12	“Graduate Notes”-Wright State University	May 1973
	13	Guardian Article Vol. 10 Issue 11	Oct. 18, 1973
	14	Human Factors Engineering-Wright State University Brochures	Undated
		Subseries I C: Religion/Divinity	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	15	Religion Notes	1947-1949
	16	Religion Papers	1950, undated
	17	Ordination of Malcolm Ritchie to the Office of Patriarch Evangelist	Oct. 28, 1973
		Subseries I D: Military	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	18	Enlistment Documents	1941
3	1	Pilot’s Flight Log	1941-1943, 1947
	2	WWII Flight School Information	1941-1944
	3	West Coast Air Corps Training Center Certificate of Proficiency	Feb. 18, 1942
	4	Computation Sheet	May 21, 1942
	5	Air Force Graduation	May 21, 1942
	6	Officers Day Data Card	May 1942, Jun. 1942, Apr 1943
	7	Air Force Advanced Flying School, Roswell Army Flying School, Roswell, New Mexico, Special Orders	Jun-Sep. 1942
	8	War Savings Bond, Class A Pay Reservation Application	Aug. 6, 1942
	9	Roswell Army Flying School, Flying Certificate	Aug. 1942
	10	Forms Flight Record	1942, 1952
	11	Student Pilot Rating Book (Private Course)	1942
	12	Physical Record, Selective Service	1942
	13	Mather Field, California, Special Orders	1942

	14	War Department Headquarters, Personnel Orders	1942
	15	Luke Field, Phoenix, Arizona, Special Orders	1942
	16	Extract-Promotion From 2 nd Lt to 1 st Lt	Jan. 15, 1943
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	17	Roswell Army Flying School Special Orders	Feb-Mar. 1943
	18	Instrument Flight Check	Aug. 1943
	19	Authorization of Class "B" Allotment For Purchase of War Savings Bonds	Oct. 1943
	20	Army Air Forces Western Flying Training Command Special Order	Nov. 26, 1943
	21	La Junta Army Air Field Special Order	1943
	22	481 st Night Fighter Operational Training Group Special Orders	Jan. 1944
	23	481 st Night Fighter OPN TNG GP Hammer Field, Fresno, California, Special Orders	Feb. 1944
	24	Headquarters 454 th FTR SQ IV Fighter Command AAB, Salinas, California, Special orders	Feb. 1944
	25	Memo Credit for Destruction of Enemy Aircraft	Dec. 31, 1944
	26	Diary of Malcolm L. Ritchie (Transcript)	1944
	27	Night Fighter Papers	1944
	28	Award Newsletter	Mar, May 1945
	29	Past, Present, and Future	Aug 15, 1945
	30	Form Letter issued before the invasion of Tokyo-Ennis C. Whitehead	Aug. 19, 1945
	31	Japanese Peace Party Photos	Aug. 20, 1945
	32	Receipt For Air Arsenal At Tachikaura	Sep. 22, 1945
	33	Credit for Destruction of Enemy Aircraft by Bomber Crews	1945
	34	WWII Letters of Promotion	1945
	35	418 th Night Fighter Squadron, APO 321, Orders and Notes	1945
	36	Night Fighters Letters of Commendation	1945
	37	Misc. Flight Forms	1945
	38	Chronological Record of Military Experience	1945
	39	Military Orders	1945
	40	Oak Leaf Cluster Award	1945
	41	Diary of Malcolm L. Ritchie (Transcription)	1945
	42	Allotment Information	1945
4	1	Promotion Documents	1945
	2	Physical Examination for Flying	1946
	3	Post War Papers	1946-1947
	4	Psychological and Statistical Tests	1947
	5	Flight Tests	1948
	6	Air Force Reserve Training Center Documents	Jun. 18, 1949, Nov. 21, 1949
	7	USAF Extension Course Department	1950
	8	Air Force Reserve Documents	1950-1955

	9	Air Force Reserve Documents, Chanute Field	1951-1953
	10	Flying Evaluation Board Action	Jul. 2, 1954
	11	Air Force Reserve	1955-1957
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
4	12	Honorable Discharge Information	Mar. 1957
5	1	Night Fighters of World War II Award	1978, 1988
	2	Night Fighters Meeting Minutes	Jun. 18, 1987
	3	WWII Night Fighters Convention Committee	1989-1990
	4	WWII Night Fighters 1990 Convention	May 23-27, 1990
	5	The Battle of Leyte Gulf by Kenneth I. Friedman	May 9, 2003
	6	Malcolm L. Ritchie In World War II: 1941-1946	2003
	7	Night Fighter Reunion Photograph [See OS Drawer 45 File 14]	2004
		Subseries I E: Awards	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
5	8	Certificate of Membership: Lambda Delta Sigma Society	May 1, 1947
	9	The New York Academy of Sciences Certificate	Jan. 24, 1957
	10	Arctic Travelers Certificate [See Oversized Box 57 File 2]	Apr-May 1958
	11	Who's Who in Space	Circa 1959
	12	American Institute of Aeronautics and Astronautics	1961
	13	Ambassadors Club Award	Jan. 17, 1962
	14	American Psychological Association Fellow Certificate	1968
	15	American Association for the Advancement of Science	Mar. 19, 1970
	16	Society for Information Display Award	Jun. 1, 1972
	17	Lunar Bird Watcher Society Certificate	Dec. 6, 1972
	18	State of Ohio Board of Psychology Certificate	Apr. 1, 1974
	19	Human Factors Society Certificates	1970, 1974-1975, 1985
	20	Honorary Member of Arizona Certificate [See Oversized Box 57 File 3]	Jun. 7, 1977
	21	Dayton View Optimist Club Certificate of Appreciation	Mar. 9, 1982
	22	Wright State University Resolution 82-54	Jun. 9, 1982
	23	Prof. Emeritus Resolution	Jun. 9, 1982
	24	FAA-DOF-Appraisal of the Managerial and Executive Potential of Dr. Malcolm L. Ritchie	Jun. 24, 1982
	25	ASC Engineers and Scientists Outstanding Achievement Recipients Program	Oct. 12, 1982
	26	Appreciation Award IEEE	1984
	27	Meritorious Service Award	Mar. 3-8, 1985
	28	The Simulation Profession Certificate	Mar. 1985
	29	Human Factors Society, Southern Ohio Chapter, Honorary	Apr. 1, 1985

		Member	
	30	Certificate of Appreciation Presented to Dr. Malcolm L. Ritchie	Jan. 6, 1986
	31	American Psychological Society Charter Fellow Certificate	1988
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
5	32	American Psychological Society Certificate	1989
	33	Department of Transportation, Federal Aviation Administration Certificate of Appreciation	Mar. 1992
	34	Division 21 Members Who Made Distinguished Contributions to Engineering Psychology	1994
	34	North American Top Gun Inc Flight Certificate	1998
	35	National Aviation Hall of Fame Certificate	Dec. 6, 2000
	36	The Engineers Club of Dayton Certificate	Mar. 28, 2006, Jun. 3, 2008
	37	Human Factors and Ergonomics Society Life Fellow Certificate	Undated
	38	Certificate of Appreciation	Undated
	39	American Association of Engineering Societies, Who's Who in Engineering	Undated
		Subseries I F: Misc. Personal Items	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
5	40	Apollo Moon Mission Photograph	Circa 1969
	41	Astronaut Sketch	Undated
	42	P-61 Northrop "Black Widow" Advertisement	Undated
	43	Airplane Drawing [See Oversized Box 57 File 4]	Undated
SERIES II: GENEALOGY			
		Subseries II A: Family Names	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
6	1	Curtis	Undated
	2	Curtis, Jeremiah	Undated
	3	Curtis, Meacham	Undated
	4	Curtis, Zacheus	Undated
	5	Gossadge, Roberta	Undated
	6	Gossadge, W.C.	2003
	7	Gossadge, William F.	Undated
	8	Hinkle, George March	Undated
	9	Hinkle-Hesse (PA-NC)	Undated
	10	Hinkle (KY-MO)	Undated
	11	King, Eskie Nadmi	Undated
	12	King, Henry Charles	Undated

7	1	McAdams	Undated
	2	McLauren, Robert	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
7	3	Meacham	Undated
	4	Miles, Samuel Frederick	Undated
	5	Miller, John	Undated
	6	Miller, Margaret Lanaye	Undated
	7	Miller, Robert McLauren	Undated
	8	Paklehymer, Lydia	Undated
	9	Pearson	Undated
	10	Pearson, Hazel	Undated
	11	Pearson, William Gilbert	Undated
	12	Ritchie, Edward Douglas	Undated
	13	Ritchie, Floy	Undated
	14	Ritchie, George	Undated
	15	Ritchie, George Briton	Undated
	16	Ritchie, James	Undated
	17	Ritchie, Karen	Undated
	18	Ritchie, Malcolm Luther	Undated
	19	Ritchie, Margaret Naomi	Undated
	20	Ritchie, Wm George	Undated
	21	Ritchie, William Taylor	Undated
	22	Ritchie, Wilson Samuel	Undated
	23	Rudolph, Charles F.	Undated
	24	Rudolph, Esther India	Undated
	25	Sheperde, Wm	Undated
	26	Sheppard, Thomas Jefferson	Undated
	27	Sheppard, William Alfred	Undated
	28	Smith	Undated
	29	Stepp	Undated
	30	Trask	Undated
	31	Wilson, John Reuben	Undated
	32	Zundel	Undated
		Subseries II B: Genealogy Reference	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
8	1	Wilson Samuel Ritchie Oral Examination Program	Jan. 5, 1970
	2	God, Grass, and Grit: History of Sherman County Trade Area	1971
	3	Karen Ritchie Article	1987
	4	Ritchie's Across America	Dec. 29, 1989
	5	The World Of Ritchies	1990

	6	The Family Background of Malcolm Ritchie: Prepared in 1996 for Malcolm's Children and Grandchildren by Wilson Ritchie with the Assistance of Floy Ritchie Parsons	1996
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
8	7	Ancestors of Roberta Ann Gossadge Ritchie by Malcolm Luther Ritchie	Dec 2005
	8	Ancestors of Malcolm Luther Ritchie	2005
	9	Genealogy Notes	Undated
	10	"What I'd want the world to know bout my dad"	Undated
	11	Family Map	Undated
	12	The Lyman Wight Colony In Texas Came to Bandera in 1854	Undated
	13	Ritchie Cemetery	Undated
SERIES III: FAMILY PHOTOGRAPHS			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
8	14	Cecil Ritchie Photographs	Circa 1950s
	15	Malcolm L. Ritchie and Ed Gleazer Photographs	May 2008
9	1	Family Photographs	Circa 1940s
	2	Family Photographs	1950-1955
	3	Family Photographs	1956-1958
	4	Family Photographs	1959
	5	Family Photographs	1960-1965
	6	Family Photographs	1966-1969
	7	Family Photographs	Circa 1970s
SERIES IV: FAMILY SLIDES			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
10	1	Family Slides	1955-1960
	2	Europe	1960
	3	Ritchie In Laws	1961-1962, 1965, 1969
11	1	Family Slides	1962-1964
	2	Mexico	undated
	3	Family Slides	1965-1967
12	1	Europe	1969
	2	Florida	1969
	3	Family Slides	1970s

	4	Spain	1971
	5	Family Slides	1971
13	1	Family Slides	1972
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
14	1	Art Work Slides from Vacation	Undated
SERIES V: CORRESPONDENCE			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
15	1	Correspondence-Religious	1950-1951
	2	General Correspondence	1957-1959, 1961-1962, 1967, 1969
	3	Correspondence-E.K. Murray	Mar. 2, 1973
	4	Graceland College Correspondence	1974, 1976
	5	Professional Correspondence	1974-1979, 1981-1985, 1990
	6	FAA Correspondence	Jun. 5, 1980
	7	Michael C. Jennings Correspondence Concerning Graduate Program at WSU	Oct. 26, 1984
	8	Correspondence with Human Factors Engineering Alumni	Jul. 9, 1985
	9	Correspondence	1985
	10	Correspondence	Sep. 23, 1989
	11	American Psychological Association Correspondence	Sep. 2, 1994
	12	Roy Cheville: The Patriarch Years, Correspondence,	1995-1997
	13	80 th Birthday Celebration Letters	2000
	14	Correspondence-R. Peter Finke	2002
SERIES VI: JOB APPLICATIONS			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
15	15	Employment Contract	Jul. 3, 1957
	16	Security Investigation Data For Non Sensitive Position	Apr. 18, 1958
	17	Appointment Affidavits	Apr. 1958
	18	Job Application Forms	1958, 1959, 1977, 1980
	19	Research Psychologist Job Description	Jun. 1968
	20	Psychologist Job Description	Jan. 1969
	21	Personnel Action	1970, 1974, 1981

SERIES VII: RITCHIE INC			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
16	1	Legal	1956, 1958, 1960-1961
	2	Financial Statements: Balance Sheets-Revenue and Expenses	1957-1958
	3	Company Operations	1957-1960
	4	Company Operations	1961
	5	Company Operations	1962
	6	Minutes of a Special Meeting of the Shareholders of Ritchie and Associates	Feb. 16, 1963
	7	Ritchie Inc. Articles of Incorporation	Mar. 1, 1963
	8	Mortgage	Apr. 15, 1963
	9	Company Operations	1963
	10	Certificate of Amendment	1963, 1966
	11	Common Stock Certificate	1963
	12	Ritchie and Associates Inc, Stockholder information	1963
	13	Company Operations	1964-1965
	14	Ritchie Stock Paper	May 1965
	15	Depreciation-Ritchie Inc	1966
	16	Company Operations	1966
	17	Company Operations	1967
17	1	Cash Advance/ Staff Insurance Records/ Stock Record	1968-1974
	2	Stock Certificate Receipts	1969
	3	Treasury Stock	1969
	4	Ritchie Inc. Stock Share Papers	Oct. 23, 1970, Jun. 28, 1977
	5	General Journal	1970-1980
	6	Election By Small Business Corp	Jan. 1973
	7	Pension	1977-1978
	8	General Ledger	1977-1981
	9	Board of Directors Meeting	Oct. 22, 1979
	10	Schedule	1990
	11	CCE Filing Notice	Feb. 1994
	12	Ritchie Inc Trial Balance	1994
	13	Ritchie Inc Transactions	1994
	14	Ritchie Inc Activity	1994
	15	Ritchie Inc Accounts	1994
	16	Ritchie Inc Support	1994
	17	Ritchie Inc Trial Balance	1995

	18	Ritchie Inc Transactions	1995
	19	Ritchie Inc Activity	1995
	20	Ritchie Inc Accounts	1995
	21	Ritchie Inc Support	1995
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
17	22	Ritchie Inc Transactions	1996
	23	Ritchie Inc Activity	1996
	24	Ritchie Inc Accounts	1996
	25	Ritchie Inc Support	1996
	26	Ritchie Inc Trial Balance	1996
	27	Dissolution of Ritchie Inc	Dec. 4, 2001
	28	Misc. Ritchie Inc Papers	Undated
	29	Preferred Stock Certificates	Undated
	30	Common Stock Certificates	Undated
18	1	Ritchie Inc Seal	undated
SERIES VIII: RITCHIE INC RESEARCH/REFERENCE			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
19	1	Listing of M.L. Ritchie Microfilm	1954
	2	1956 Piper Apache Ritchie Inc	1956
	3	Historical Report NBR File	1964
	4	Leased Apache Aircraft	Circa 1965
	5	Reference Notebook	1966
	6	In-flight Performance Evaluation Draft	Jun. 7, 1978
	7	Human Factors System Engineering Graph	Feb. 18, 1981
	8	Problems of Flight Training Outline	Aug. 31, 1978
	9	The Development of A Human Factors Engineering Program for the FAA	Aug. 21, 1981
	10	Human Factors in the NASP-Overhead Projector Presentation	Mar. 1983
	11	Midwest Systems Research Inc Agreement	Jan. 2, 1992
	12	Ritchie Smart Data Link Display	Undated
	13	Data by Subject (Driving)	Undated
	14	Driving Research	Undated
	15	Enhancing Safety Through Macro Information Systems Analysis & Design	Undated
	16	Forecasting Potential Army Flight Instructional Methods Deriving From the Next Generation of Computer Generated Visual Simulation Proposal	Undated
	17	Graphs	Undated
	18	Computer Line Drawings/Graphs	Undated
	19	Art Single Cockpit Problem, Overhead Presentation	Undated
	20	Display Screen Shots	Undated

	21	Instrument Panel of 1956 Piper Apache	Undated
	22	Airplane Photograph	Undated
	23	Notes	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
20	1	Research Slides	Undated
SERIES IX: MALCOLM L. RITCHIE WRITINGS AND PUBLICATIONS			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
20a	1	University of Illinois Reports	1952-1954
21	1	MLR, "Transfer of Training as a Function of Task Complexity" AF 33(038)-25726	Mar. 12, 1954
	2	MLR, "Retroaction as a Function of Discrimination and Motor Variables" <i>Experimental Psychology</i> Vol. 48, No. 6	Dec. 1954
	3	MLR, "The Skaggs-Robinson Hypothesis as an Artifact of Response Definition" <i>Psychological Review</i> Vol. 61 No. 4	1954
	4	MLR, Harold E. Bamford Jr, "The Evaluation Facility: Objective Evaluation of Displays for Aircraft Cockpits" AF 33(616)3000	Mar. 30, 1956
	5	MLR, Harold Bamford Jr, "Progress Report"	Oct. 1, 1956
	6	Alexander C. Williams, Jr, MLR, "A Program of Human Engineering Research on the Design of Aircraft Instrument Displays and Controls," WADC-TR-56-526	Dec. 1956
	7	MLR, Charles A. Baker, "Psychological Aspects of Cockpit Design-A Symposium Report" WADC-TR-57-117	Apr. 1957
	8	MLR, Harold E. Bamford Jr, "The Effect upon the Output of a Complex Man-Machine System of Quickening and Damping a Derivative Feedback Display" WADC-TR-57-103	Apr. 1957
	9	MLR, Harold E. Bamford Jr. "Integrated Instruments: A Roll and Turn Indicator" WADC-TR-57-205	May 1957
	10	"University of Illinois Aviation Psychology Laboratory Dayton Contract Progress Report"	Aug. 1957
22	1	MLR, Harold E. Bamford Jr. "Quickening and Damping a Feedback Display" <i>Journal of Applied Psychology</i> Vol. 41, No. 6	1957
	2	MLR, Harold E. Bamford, Lewis F. Hanes, Summit E. Wilson "The Operation of Manned Spacecraft" WADC-TR-58-225	Jun. 1958
	3	MLR, Harold E. Bamford, "Complex Feedback Displays in a Man-Machine System" <i>Journal of Applied Psychology</i> Vol 42, No 3	Jun. 1958
	4	MLR, Harold E. Bamford, Jr. "The Evaluation of Instrument Displays: A Point of View" <i>American Psychologist</i> , Vol 13	1959
	5	MLR, Thomas E. Hainsworth, "Some Control-Display Aspects of	Jan. 1960

		Manual Attitude Control in Space”	
	6	MLR, Lewis F. Hanes, “Manual Attitude Control in Space-Arrangement of Controls” ASME Publication, 60-SA-34	Apr. 4, 1960
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
22	7	ML, Lewis F. Hanes, “An Exploratory Study of Manual Attitude Control in Space” LEAR Engineering Report: GR-1366	Sep. 1960
	8	MLR, “Preliminary Studies of Cockpit Information Content: Equivalence of Information in Cockpit Standby Instrumentation” LEAR Advance Engineering Report: No. 32	Nov. 1960
	9	MLR, John H. Kearns, “Some Aspects of the Problem of Display Integration” ASD-Technical Note-61-5	May 1961
	10	MLR, John H. Kearns, “Cockpit Control-Display Subsystem Engineering” ASD-TR-61-545	Oct. 1961
	11	MLR, Patent for Drag Indicator for Aircraft Cockpits	Jan. 16, 1962
	12	MLR, C.P. Martin, G.E. Long, “Control-Display Study for Orbital Rendezvous: The “Rendezvous Vector Display” Contract No. AF 33 (657)-7904	Apr. 1, 1963
	13	MLR, Lewis F. Hanes, “A Study of Time-Based Methods of Analysis in Cockpit Design” ASD-TDR-63-289	May 1963
	14	MLR, “Visual Displays for Space Systems” <i>Human Factors: The Journal of the Human Factors Society</i>	Jun. 1963
	15	MLR, Edward L. Warren, “Rendezvous Terminal Phase with a Combination Manual-Automatic Control-Display System”	1963
	16	MLR, “Ethics and the Information Revolution”	1965
	17	MLR, C.A. Oakman, K.L. Slawson, “A Primer of Tactics for Manual Control of Rendezvous vs Low Earth Orbits” AFFDL-TR-65-63	Apr. 1965
23	1	MLR, “Some Relations Between Visual and Kinesthetic Displays in Normal Driving” RI Report 68-10	Mar. 1968
	2	MLR, William K. McCoy, William L. Welde, “A Study of the Relation Between Forward Velocity and Lateral Acceleration in Curves During Normal Driving” Human Factors 10(3)-255-258	1968
	3	MLR, “Some Relations Between Visual and Kinesthetic Displays in Normal Driving”	1968
	4	MLR, John M. Howard “A Study of the Possible Role of Visual Disappearance (Troxler Effect) in Low Approach Aircraft Accidents”	Dec. 23, 1970
	5	MLR, “Human Factors in the Long Run” Human Factors, 1970, 12(2)	1970
	6	MLR, N.S. Ntaraj, “Human Performance Evaluation in Dual-Axis Critical Task Tracking”	1970
	7	MLR, “Proposal for The Development of a Method for Determining Advisory Sign Criteria”	Jun. 2, 1971
	8	MLR, John M. Howard, W. David Myers, “Some Interactions	Jun. 1971

		Among Driver, Vehicle, and Roadway Variables in Normal Driving”	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
23	9	MLR, “Incarnation or Spiritual Health: Two Views of the Nature of the Church”	Sep. 1971
	10	MLR, G.M. Swisher, F. Maher, “Noise Effects on the Critical Tracking Performance of the Human Operator” Reprinted from <i>Journal of Spacecraft and Rockets</i> Vol. 9, No. 10	Oct. 1972
	11	MLR, “Choice of Speed in Driving Through Curves as a Function of Advisory Speed and Curve Signs” 14(6), 533-538	1972
	12	MLR, J.M. Howard, W.D. Myers, S. Nataraj, “Ruther Experiments in Driver Information Processing”	1972
	13	MLR, “Publications on Automobile Driving”	1972
	14	MLR, “Human Engineering in American Universities and Industries” NATO Seminar	Jun. 2, 1973
	15	MLR, B. John Shinn, “Beyond Linear Perspective With Computer Generated Displays”	1973
	16	MLR, “Overview of the Engineering Design Process with Regard to Human Resources” Report No. HFE 74-1	Jul. 1, 1974
	17	MLR, John H. Howard, “The Effect of Knowledge of Lateral Acceleration Performance of Driving through Curves”	Oct. 1974
	18	MLR, Patricia Vendt, “Influences on Design Engineers”	May 1975
	19	MLR, F.J. Jankowski, J.M. Howard, “Report on Engineering Design Education Project Survey” HFE Report No. 75-2	Jun. 1975
	20	MLR, Diana R. Nelson, “Distance Judgment in a Computer-Generated Color Picture as a Function of the Density of Aerial Perspective” HFE-75-2	Sep. 1975
24	1	MLR, J.M. Howard, “Engineering Design: Impact on Human Resources. Bibliography with Permuted Titles” HFE-75-3	Sep. 1975
	2	MLR, J.M. Howard, “Engineering Design: Impact on Human Resources. Bibliography with Permuted Titles” HFE-75-3	Sep. 1975
	3	MLR, “Possibilities for Graduate and Professional Education”	Jan. 6-9, 1976
	4	MLR, “Toward A Pictorial Revolution in Complex Displays for Vehicle Control” HFE-76-4	Jan. 1976
	5	MLR, “Toward A Pictorial Revolution in Complex Displays for Vehicle Control” HFE-76-4	Jan. 1976
	6	MLR, “Manpower Implications in the Design of Air Force Equipment. Progress Report”	Feb. 1976
	7	MLR, Patricia Vendt, Nataraj S. Natarai, “Influences on System Designers which Compete with the Work Statement”	Mar. 1976
	8	MLR, “The Potential in the Management of Engineering Design for Reduction of Life Cycle Cost” HFE-76-7	Apr. 1976
	9	MLR, “Manpower Implications in the Design of Air Force	Apr. 1976

		Equipment. Progress Report”	
	10	MLR, “Manpower Implications in the Design of Air Force Equipment. Progress Report”	Jul. 1976
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
24	11	MLR, “The Research and Development Methods of Wilbur and Orville Wright”	Aug. 1976
25	1	MLR, “Using Computer-Generated Displays for Research on Synthesized Displays: Distance Perception Aided By Aerial Perspective and Texture” AMRL-TR-76-34	Aug. 1976
	2	MLR, F.J. Jankowski, N.S. Natarai, “A Conceptual Model of the Engineering Design Process,” Report No. HFE-76-14	Dec. 1976
	3	MLR, F.J. Jankowski, N.S. Natarai, J.M. Howard, “Engineering Design Education in America and the Role of Human Resources Variables” HFE-76-2	1976
	4	MLR, “The Incompatibility of Human Factors with Traditional Engineering: The importance of Life-Cycle Costs” <i>American Society for Engineering Education</i>	Jun. 27-30, 1977
	5	MLR, “Illusion, Distance, and Object in Computer-Generated Displays”	1977
	6	MLR, “The Interpretability of Consumer Machines”	1977, 1978
	7	MLR, “Object, Illusion, and Frame of Reference as Design Criteria For Computer-Generated Displays”	1978
	8	MLR, “Cockpit Control-Display Subsystem Analysis Forward Swept Wing Fighter: A Report to The Bendix Corporation Flight Systems Division”	Jun. 30, 1980
	9	MLR, “Designing Machines That Communicate Better With Flight Crews”	Sep. 7-9, 1982
	10	MLR, “Functions Performed By Dr. Malcolm Ritchie in the Role of Special Advisor for Human Factors to the Director of the FAA Technical Center Atlantic City, N.J. From 1 July 1980 to 30 Jun 1982	Jan 17, 1983
	11	MLR, “Mind Over Machine in the Evolving NASP: Principals”	1983
	12	MLR, “Mind Over Machine in Navigation and Air Traffic Control” NAECON 1984	1984
	13	MLR, “Toward Rigorous Mind-Machine System Design of Aircraft cockpits- Lessons Since World War II” IEEE/AESS 1984 Fall Symposium	1984
	14	MLR, “The Mind of the Navigator as a System Component”	1984
	15	MLR, “Human Factors in General Aviation”	1987
	16	MLR, “General Aviation”	1988
26	1	MLR, “Roy Cheville: The Graceland College Years”	1995
	2	MLR, “Roy Cheville: The Patriarch Years”	1997
	3	MLR, “Designing Machines that Communicate Better with Flight	Undated

		Crews”	
	4	MLR, “Effects of Variation in Computer Generated Display Features on the Perception of Distance”	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
26	5	MLR, John M. Howard, “The Effect of Knowledge of Lateral Acceleration Performance on Driving Through Curves”	Undated
	6	MLR, “Further Experiments in Driver Information Processing”	Undated
	7	MLR, “Human Performance Evaluation in Dual-Axis”	Undated
	8	MLR, “Machine-to-Human Information Transfer: The Interpretability of Machines”	Undated
	9	MLR, Harold E. Bamford, Jr., “The Evaluation of Instrument Displays: A Point of View”	Undated
	10	MLR, Edward L. Warren, “Rendezvous Terminal Phase with a Combination Manual-Automatic Control Display System”	Undated
	11	MLR, “Some Interactions Among Driver, Vehicle, and Roadway Variables in Normal Driving”	Undated
	12	MLR, “Is Christianity Impractical Now?”	Undated
SERIES X: RITCHIE INC PUBLICATIONS AND REPORTS			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
26	13	Memorandum Reports	1957
	14	Memorandum Reports	1958
	15	Manned Systems Lab, A Program of Research in the Control of Man-Operated Systems, Brochure 58-1	
27	1	Whole Panel Study and Development Summary Reports, 1957-1958, WADC	Mar. 1959
	2	LEAR Memorandum Reports	1959
28	1	Apollo	1960-1961
29	1	“Optimum Co-Planar Two Impulse Transfers Between Elliptic Orbits”	Jan. 15, 1962
	2	“A Proposal to Work on Effect of Display Quickening on Human Operator Transfer Function”	Nov. 1962
	3	“X-15 Cockpit Information Requirement Analysis”	Apr. 30, 1963
	4	“Monthly Progress Report On Research in New Techniques for Control Display” Report USAF-64-2	Dec. 1963
	5	“Pilot Control Information Requirement Analysis”	1963
	6	“Helicopter Dynamics for Display Control Design” LEAR Siegler 69-1	Jan. 10, 1964
	7	“Monthly Progress Report On Research in New Techniques for Control Display, Part 1” Report USAF 64-4	Jan. 1964

	8	“Monthly Progress Report On Research in New Techniques for Control Display” Report USAF-64-9	Mar. 1964
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
29	9	“Monthly Progress Report On Research in New Techniques for Control Display” Report USAF 64-23	Jun. 1964
	10	“Monthly Progress Report On Research in New Techniques for Control Display” Report USAF 64-28	Jul. 1964
	11	“Monthly Progress Report On Research in New Techniques for Control Display” Report USAF 64-31	Aug. 1964
	12	Lewis F. Hanes, “Discrimination of Direction of Movement at Short Exposure Durations” FDL-TDR-64-000	Aug. 1964
	13	“Monthly Progress Report on Research in New Techniques for Control Display” Report USAF 64-34	Sep. 1964
	14	“Monthly Progress Report on Research in New Techniques for Control Display” Report USAF 64-36	Oct. 1964
	15	“Research in New Techniques for Control Display Terrain Following Displays” Report FDL-TDR-64-000	Nov. 1964
	16	“Monthly Progress Report on Evaluation of Predictor Display Techniques” Report USAF 65-2, AF 33 (615)2353	Dec. 22, 1964- Jan. 12, 1965
	17	“A Proposal for a Study of the Display of Lateral Control Dimension Information to Pilots	Dec. 1964
	18	“An Unsolicited Proposal for a Study of the Display of Lateral Control Dimension Information to Pilots”	Jan. 1965
	19	“Monthly Progress Report on Evaluation of Predictor Display Techniques” USAF 65-8	Apr. 12, 1965- May 12, 1965
	20	“Monthly Progress Report on Remote Manipulation Controls Research” Report USAF 65-10	Apr. 20, 1965- May 19, 1965
	21	“Response to Request for Proposal Nr. RTD 20413-KNA, Airborne Evaluation of Display Concepts”	Apr. 26, 1965
	22	“Monthly Progress Report on Evaluation of Predictor Display Techniques” Report USAF 65-9	May 13, 1965- Jun. 12, 1965
	23	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-11	May 20, 1965- Jun. 19, 1965
	24	“Monthly Progress Report on Evaluation of Predictor Display Techniques” Report USAF 65-12	Jun. 13, 1965- Jul. 12, 1965
	25	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-13	Jun. 20, 1965- Jul. 19, 1965
	26	“Monthly Report on Evaluation of Predictor Display Techniques” USAF 65-14	Jul 13, 1965- Aug. 12, 1965
	27	Monthly Progress Report on Remote Manipulator Controls Research, Report USAF 65-15	Jul. 20, 1965- Aug. 19, 1965
30	1	“Investigation of “Predictor” Displays for Orbital Rendezvous and Lunar Landing- Program Summary”	Jul. 1965

	2	“Monthly Progress on Evaluation of Predictor Display Techniques” Report USAF 65-17	Aug. 13, 1965- Sep. 12, 1965
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
30	3	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-18	Aug. 20, 1965- Sep. 19, 1965
	4	“Monthly Progress on Evaluation of Predictor Display Techniques” Report USAF 65-20	Sep. 13, 1965- Oct. 12, 1965
	5	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-23	Sep. 20, 1965- Oct. 19, 1965
	6	“Monthly Progress on Evaluation of Predictor Display Techniques” Report USAF 65-22	Oct. 13, 1965- Nov 12, 1965
	7	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-25	Oct. 20, 1965- Dec. 6, 1965
	8	“Monthly Progress on Evaluation of Predictor Display Techniques” Report USAF 65-26	Nov. 13, 1965- Dec. 12, 1965
	9	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 65-28	Nov. 20, 1965- Dec. 19, 1965
	10	“Monthly Progress on Evaluation of Predictor Display Techniques” Report USAF 66-1	Dec. 13, 1965- Jan. 12, 1966
	11	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-2	Dec. 20, 1965- Jan. 19, 1966
	12	“Monthly Progress Report on Evaluation of Predictor Display Techniques” USAF 66-4	Jan. 13, 1966- Feb. 12, 1966
	13	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-5	Jan. 20, 1966- Feb. 19, 1966
	14	“Monthly Progress Report on Evaluation of Predictor Display Techniques” USAF 66-7	Feb. 13, 1966- Mar. 12, 1966
	15	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-8	Feb. 20, 1966- Mar. 20, 1966
	16	“Monthly Progress Report on Evaluation of Predictor Display Techniques” USAF 66-10	Mar. 13, 1966- Apr. 12, 1966
	17	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-13	Mar. 20, 1966- Apr. 19, 1966
	18	“Monthly Progress Report on Evaluation of Predictor Display Techniques” Report USAF 66-15	Apr. 13, 1966- May 12, 1966
	19	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-16	Apr. 20, 1966- May 19, 1966
	20	Monthly Progress Report on Evaluation of Predictor Display Techniques, Report USAF 66-20	May 13, 1966- Jun. 12, 1966
	21	“Monthly Progress Report on Remote Manipulator Controls Research” Report USAF 66-21	May 20, 1966- Jun. 19, 1966
	22	“Airborne Evaluation of Displays Concepts”	Aug. 1966
	23	“Airborne Evaluation of Displays Concepts-Final Report”	Aug. 1966

	24	“Human Performance Variables in the Use of Low Light Television”	Oct. 26, 1966
	25	“Have You Considered Ritchie? We’d Like to Tell You About Our Work Experience, Staff, and Interests”	Mar. 1967
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
30	26	“Accident Reduction Priority Study-Correspondence Inc”	1967
31	1	“A Proposal by Ritchie Inc. to the Office of Naval Research”	Feb. 1983
	2	“Cockpit Automation Technology (CAT) Development Phase 1, Technical Proposal, Vol. I”	Oct. 17, 1983
	3	“Cockpit Automation Technology (CAT) Development Phase 1, Management, Vol II”	Oct. 17, 1983
	4	“Cockpit Automation Technology (CAT) Development Phase 1, Cost Proposal, Vol III”	Oct. 17, 1983
	5	“Manned Systems Lab, A Program of Research in the Control of Man-Operated Systems” Brochure 58-1	Undated

SERIES XI: REPORTS

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
		Subseries XI A: Aerospace Medical Research Laboratories [AMRL]	
31	6	William K. McCoy Jr., George G. Frost, “Time History as an Information Source for Operator Control of Orbital Rendezvous” AMRL-TDR-64-55	June 1964
	7	Julien M. Christensen, “The Emerging Role of Engineering Psychology.” AMRL-TR-64-88	Sep 1964
	8	William K. McCoy Jr., George G. Frost, “Investigation of “Predictor” Displays for Orbital Rendezvous: Program Summary” AMRL-TR-65-138	Sep 1965
	9	William K. McCoy, George G. Frost, “Predictor Display Techniques For On-Board Trajectory Optimization of Rendezvous Maneuvers.” AMRL-TR-66-60	May 1966
	10	Bernard J. Katchman, George M. Homer, Dorathea P. Dunco, “The Biochemical, Physiological, and Metabolic Evaluation of Human Subjects Wearing Pressure Suits and on a Diet of Precooked Freeze Dehydrated Foods.” AMRL-TR-67-8	Jun. 1967
	11	John H. Henzel, “The Human Spinal Column and Upward Ejection Acceleration: An Appraisal of Biodynamic Implications.” AMRL-TR-66-233	Sep. 1967

	12	James G. King III, "Interchange of Group C Beta Hemolytic Streptococci Among Dogs and Monkeys Confined in Dynamic Flow Atmospheric Systems." AMRL-TR-66-182	Sep. 1967
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
31	13	Leonard P. Lotter, Bonnie S. Horstman, "The Potential Hazard of Staphylococci and Micrococci to Human Subjects in a Life Support Systems Evaluator with Elevated Cabin Temperature." AMRL-TR-67-43	Sep. 1967
	14	Leonard P. Lotter and Bonnie S. Horstman, "The Potential Hazard of Staphylococci and Micrococci to Human Subjects in a Life Support Systems Evaluator While on a Simulated GT-7 Mission." AMRL-TR-67-45	Sep. 1967
	15	Leonard P. Lotter, Bonnie S. Horstman, and Joseph V. Rack, "The Potential Hazard of Staphylococci and Micrococci to Human Subjects in a Life Support Systems Evaluator and on a Diet of Liquid Foods." AMRL-TR-67-21	Sep. 1967
	16	Leonard P. Lotter, Bonnie S. Horstman, and Joseph V. Rack, "The Potential Hazard of Staphylococci and Micrococci to Human Subjects in a Life Support Systems Evaluator and on a Diet of Precooked Freeze Dehydrated Food." AMRL-TR-67-18	Sep. 1967
	17	Raymond H. Murray, Spencer Shropshire, and Leonard Thompson, "Attempted Acclimatization by Vigorous Exercise During Periodic Exposures to Simulated Altitude." AMRL-TR-67-114	Sep. 1967
	18	Perry London, Ronald A. McDevitt, "Modification of Stress Responses to Cold and Electric Shock: The Use of Autohypnotic Techniques." AMRL-TR-67-142	Oct. 1967
	19	Max Sussman, A Closed System Respiratory Evaluator." AMRL-TR-66-246	Oct. 1967
	20	Charles R. O'Briant, "Aeromedical Factors in Air-Refueled Extended Helicopter Flight." AMRL-TR-67-47	Nov. 1967
	21	Bernell Coleman, James W. M. Fletcher, Hubert F. Bonfili, "Human Cardiodynamic Responses to Heat Exposure: Impedance Plethysmographic Measurements of Cardiac Output." AMRL-TR-67-93	Dec. 1967
32	1	"Symposium on Biodynamic Models and Their Applications." AMRL-TR-71-29	Oct. 26-28, 1970
		Subseries XI B: USAF School of Aerospace Medicine Aerospace Medical Division (AFSC)	

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
32	2	"Lectures in Aerospace Medicine"	Feb. 6-9, 1967
	3	Adolph W. Foeh Jr., "Design and Development of a Digital Cardiometer." SAM-TR-66-334	Apr. 1967
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
32	4	Bryce O. Hartman, "MOL: Predicting Four-Hour Levels of Psychomotor Performance From The Initial Half Hour." SAM-TR-67-55	Jun. 1967
	5	Robert L. Williams, H.W. Agnew Jr, Wilse B. Webb, "Effects of Prolonged Stage Four and 1-REM Sleep Deprivation- EEG, Task Performance, and Psychologic Responses" SAM-TR-67-59	Jul. 1967
	6	David J. Giron, Frank F. Pindak, Jerome P. Schmidt, "The Effect of a Space Cabin Environment on Viral Infection." SAM-TR-66-323	Aug. 1967
	7	Aeromedical Reviews, "Idopathic Spontaneous Pneumothorax in Apparently Healthy Military Personnel." SAM- Review 4-67	Sep. 1967
	8	John J. Hargreaves, Frode Ulvedal, "Flame Protection Afforded Mice By A Noncombustible Garment in 100% Oxygen Atmospheres." SAM-TR-67-91	Sep. 1967
33	1	J.T. Celentano, H.B. Kelly Jr., W.I. Lilley, "Acclimatization Versus Tolerance to Stress: An Annotated Bibliography Volume I." SAM-TR-67-95 Vol I	Sep. 1967
	2	J.T. Celentano, H.B. Kelly Jr., W.I. Lilley, "Acclimatization Versus Tolerance to Stress: An Annotated Bibliography Volume II." SAM-TR-67-95 Vol II	Sep. 1967
	3	H.A. Glatte Jr, B.E. Welch, "Carbon Dioxide Tolerance: A Review." Review 5-67	Sep. 1967
	4	W.E. Rothe et al. "Research on the Human Physiologic Response to Prolonged Rotation and Angular Acceleration: A. Engineering Activities B. Physiologic Activities" SAM-TR-67-69	Sep. 1967
		Subseries XI C: National Aeronautics and Space Administration (NASA)	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
33	5	"Conference on Aircraft Operating Problems." NASA-SP-83	May 10-12, 1965
	6	"Biotechnology." NASA-SP-205	Aug.14-18, 1967
	7	E.D. Young, "Transient Behavior of Arterial Systems in Response to Flow Pulses." NASA-CR-990	Dec. 1967

	8	Yu. Ye. Moskalenko, "Problems of Space Biology-Volume 5-Dynamics of the Cerebral Blood Volume Under Normal Conditions and Gravitational Stress." NASA-TT-F-492	Feb. 1968
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
34	1	Harry L. Loats Jr., William J. Bruchey Jr., "A Study of the Performance of an Astronaut During Ingress and Egress Maneuvers Through Airlocks and Passageways." NASA-CR-971	Apr. 1968
	2	Amos A. Spady Jr, Randall L. Harris, "Effects of Pressure Suits and Backpack Loads on Man's Self-Locomotion in Earth and Simulated Lunary Gravity." NASA-TN-4464	Apr. 1968
	3	"Third Conference on Sonic Boom Research." NASA-SP-255	Oct. 29-30, 1970
	4	"Preliminary Results From an Operational 90-Day Manned test of A Regenerative Life Support System." NASA-SP-261	Nov. 17-18, 1970
	5	E. Bloch, S. Cardon, A. Iberall, D. Jacobowitz, K. Kornacker, L. Lipitz, W. McCulloch, J. Urquhart, M. Weinberg, F. Yates, "Introduction to a Biological Systems Science." NASA-CR-1720	Feb. 1971
	6	Hughes Aircraft Company, "Parametric Analysis of Microwave and Laser Systems for Communication and Tracking- Volume II-System Selection." NASA-CR-1687	Feb. 1971
35	1	Hughes Aircraft Company, "Parametric Analysis of Microwave and Laser Systems for Communication and Tracking- Volume III-Reference Data for Advanced Space Communication and Tracking Systems." NASA-CR-1688	Feb. 1971
	2	R.T. Curran, "Spaceborne Computer Executive Routine Functional Design Specification- Volume I- Functional Design of a Flight Computer Executive Program for the Resuable Shuttle." NASA-CR-1876	Oct. 1971
	3	Dieter Huzel, David Huang, "Design of Liquid Propellant Rocket Engines." NASA-SP-125	1971
	4	"Aircraft Engine Noise Reduction." NASA-SP-311	May 16-17, 1972
	5	V.P. Shidlovskiy, "Numerical Methods in the Theory of Rarefied Gases." NASA-TT F-638	Jul. 1972
36	1	"Vortex-Lattice Utilization" NASA-SP-405	May 17-18, 1976

	2	Earl L. Wiener, Thomas R. Chidester, Barbara G. Konki, Everett A. Palmer, Renwick L. Curry, Steven G. Gregorich “The Impact of Cockpit Automation on Crew Coordination and Communication: I. Overview, LOFT Evaluations, Error Severity, and Questionnaire Data” NASA-CR-177587	Nov. 1991
Subseries XI D: Wright Air Development Center (WADC)			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
36	3	Lawrence C. Wright, “The Air Force Program For Improved Flight Instrumentation,” WADC-TR-56-582	Nov. 1956
	4	Marshall A. Narva, “Evaluation of Decision Making Performance on Three Pictorial Navigation Displays,” WADC-TR-49	Nov. 1958
	5	Max E. Olinger, “Operation of the Fuel Management Indicator.” WADC-Technical Note-58-94	Apr 1958
	6	Beatrice Finkelstein, Bernice McGhee, “Liquid Diets For Use in High-Altitude, High-Performance Vehicles.” WADC-TR-59-32 [See Oversized Box 57 File 5]	Mar. 1959
	7	D.R. Johnson, “Radiation Induced Ultra-Violet Absorption in Methyl Methacrylate A Method of Dosimetry.” WADC-Technical Note-59-167	Jun. 1959
	8	Donald W. Ormiston, Frederick H. Rohles, Jr, Marvin E. Grunzke, “A Device For Measuring Gross Motor Behavior in Primates.” WADC-Technical Note- 59-353	Oct. 1959
	9	John F. Davis, “Manual of Surface Electromyography.” WADC-TR-59-184	Dec. 1959
Subseries XI E: Other (Alphabetical by list number)			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
36	10	Robert B. Payne, “A Preliminary Study of the Motivational Properties of Cold Stress.” AAL-TR-58-9	Apr. 1959
	11	Ruth E. Hartley, “Variables Associated with Acceptance of the Navy as a Reference Group.” Acceptance of New Reference Groups- NR- 171-033 Contract NONR-1597 (01) [See Oversized Box 57 File 6]	Mar. 15, 1958

	12	H. Leon Harter, et. Al, "Partially Hierarchal Models in the Analysis of Variance- The second of a Series of Reports on Analysis of Variance." AD-75480	Mar. 1955
	13	Melvin J. Warrick, "Effects on Motion Relationships on Speed of Positioning Visual Indicators by Rotary Control Knobs." AF-Technical Reports No. 5812	Oct. 1949
	14	C.W. Sem-Jacobsen, O. Nilseng, C. Patten, O. Eriksen, "Airborne EEG Recording in High Performance Aircraft." Contract No: AF 61 (514)-1201 [See Oversized Box 57 File 7]	Jan. 20, 1959
	15	"Proceedings of Seminar on Speech Compression and Processing- Volume I." AFCRC-TR-59-198	Sep. 28-30, 1959
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
36	16	Duane McRuer, Dustan Graham, Ezra Krendel, William Reisener Jr, "Human Pilot Dynamics in Compensatory Systems Theory Models, and Experiments with Controlled Element and Forcing Function Variations" AFFDL-TR-65-15	Jul. 1965
37	1	Project Staff, "Trajectory Study of Parachute Test Vehicles." AFFTC-TR-60-37	Jul. 1960
	2	S.F. Cook, H.A. Leon, "Physiological Effects of Inert Gases" AFMDC-TR-59-26 [See Oversized Box 57 File 8]	Jun. 1959
	3	"Proceedings of the Fifth AGARD General Assembly." AG20/P10	Jun. 15, 16, 1955
	4	"AGARD Lecture Series No. 98 Missile Aerodynamics." AGARD-L5-98	Feb. 1979
	5	James Anast, "Advanced Cockpit Instrumentation." AGARD Report 235	May 1959
	6	James F. Wittmer, "Definitions of Space Flight Medical Kits: A Rational." AMD-TR-67-7	Jun. 1967
	7	"Part I: Proceedings of Symposium on Guided Missile Reliability." Air Research and Development Command	Dec. 8-10, 1958
	8	W.G. Matheny, A.C. Williams Jr., Dora Dougherty, S.G. Hasler, "The Effect of Varying Control Forces in the P-1 Trainer Upon Transfer of Training to the T-6 Aircraft." ARDC Human Resources Research Center-TR-53-31	Sep. 1953
	9	Stanley N. Roscoe, Janice E. Eisele, Craig A. Bergman, "Advanced Integrated Aircraft Displays and Augmented Flight Control Volume I: Scientific Findings." ARL-75-12	Jun. 1975
38	1	William C. Kaufman, A.G. Swan, Biomedical Laboratory Aerospace Medical Laboratory, H.T. Davis, "Skin Temperature Responses to Simulated Thermonuclear Flash." ASD- Technical Report-61-510	Sep. 1961

	2	A.S. Iberall, "Precise Measurement of Clothes Insulation During Controlled Operation of the Human." ASEM 59-A-197	Nov./Dec. 1959
	3	Melvin A. Schmitz, Allison K. Simons, "Man's Response to Low-Frequency Vibration." ASME 59-A-200	Nov./Dec. 1959
	4	H.L. Snyder, C.P. Greening, R.L. Calhoun, "An Experimental Comparison of TV and Direct Vision for Low Altitude Target Recognition." Autonetics- T-46/3111-4	Jan. 21, 1964
	5	"Investigation of Active Doppler Velocity Sensor," Quarterly Engineering Report No. 2 BR-2144	Dec. 1962
	6	William T. Shepherd, James F. Parker Jr., "Human Factors Issues in Aircraft Maintenance and Inspection" DOT/FAA/AAM-89/9	Oct. 1989
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
38	7	Joyce H. Lavecchia, Helene P. Lavecchia, and Stanley N. Roscoe, "The Moon Illusion: Apparent Size and Visual Accommodation Distance." Technical Report- Eng Psy-78-4/AFOSR-78-3	Nov. 1978
	8	"Control-Display Study for Orbital Rendezvous: Volume II- Control-Display Development" FDL-TDR-64-94 Volume II	Oct. 1964
	9	Renato Taiuri, "Perceptual and Cognitive Process in Interpersonal Relations." Group Psychology Branch Contract No. N5ori-07670	Jun. 30, 1959
	10	Glen Fleck, Ivan Sutherland, "Techniques From Motion Picture Animation Which May Find Use In Computer-Generated Display." HFE-76-4	Jan. 1976
	11	F.J. Jankowski, N.S. Nataraj, "Engineering Design Performance Factors." HFE-76-13	Aug. 1976
	12	Francis J. Jankowski, "Modifying Engineering Education To Include Human Resources Variables." HFE-76-15	1976
	13	"Energy Management Display Study: Summary Report." LEAR Engineering Report No. 1304	Oct 1-Dec 31, 1958
	14	Grand Rapids Advanced Engineering Division, "Control— Display Integration: Progress Report No. 9." LEAR Engineering Report NO. GR-1345	Nov./Dec. 1959
	15	"Procedures For Determining Human Operator Information Requirements: A Control-Display System Design Task." LEAR GR-1462	Jul. 1964
	16	"Layout of Cockpit Displays and Controls." MH-Aero Document U-ED6139	Undated
39	1	Biomedical Lab, "Nuclear Radiation Guide." MRL-TDR-62-61	Nov. 1962
	2	Jeffrey G. Morrison, Jonathan P. Gluckman, John E. Deaton, "Adaptive Function Allocation For Intelligent Cockpit: Cockpit Automation Study 1: Baseline Study." TR-NADC-91028-60	[1990]

	3	Raja Parasuraman, Toufik Bahri, John E. Deaton, Jeffrey G. Morrison, Michael Barnes, "Theory and Design of Adaptive Automation in Aviation Systems" Naval Air Development Center- Contract N62269-90-0022-5931	Jul. 17, 1990
	4	L.M. Libber, L.J. Santa Maria, P.R. Tiller, "Environmental Requirements of Sealed Cabins For Space and Orbital Flights." NAMC-ACEL-386	Oct. 8, 1958
	5	Eva Liberman, Hoyt L. Stevens, "Tables of Four Letter Computers Codes Used in Library Retrieval Program." NOLTR 62-50	Jul. 1962
	6	J.G. Jones, "A Note on the Model Matching Technique For the Measurement of Human Operator Describing Functions." Royal Aircraft Establishment-TR-65290	Dec. 1965
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
39	7	N.H. Hughes, G.P. Lazenby, "A Flight Experiment to Determine the effects of Flare Entry Conditions on Automatic Landing Performance." Royal Aircraft Establishment-TR-65283	Dec. 1965
	8	Irving Gordy, Peter Antonucci, "Performance Characteristics of the NAVARHO Long Distance Ground Based Navigation Facility." RADC-TR-55-10	Jul. 1955
	9	Lawrence R. Pinneo, Murray L. Kesselman, "Tapping the Electric Power of the Nervous System for Biological Telemetry." RADC-TN-59-15 [See Oversized Box 57 File 9]	May 1959
	10	Edward L. Brown, William G. Matheny, Ralph E. Flexman, "Evaluation of the School Link as an Aid in Teaching Ground Reference Manuevers." Technical Report- SDC 71-16-7	Dec. 1950
	11	John M. Bell, "A Landing Display for use with a Contact Flight Simulator." Technical Report-SDC-71-16-8	Mar. 1951
	12	Richard S. Johnston, "Mercury Life Support Systems." S.M.F. Fund Paper No. FF 25	Jan. 25-27, 1960
40	1	W.F. Luebbert, "Information Handling and Processing in Large Communication Systems." Stanford Electronics Laboratories-TR-099-1	Jul. 11, 1960
	2	Charles R. Kelley, "Developing and Testing the Effectiveness of the "Predictor Instrument"" TR-252-60-1	Mar 7, 1960
	3	W. Lynn Brown, Richard M. Carr, John E. Overall, "The Effect of Whole-Body Radiation Upon Association of Peripheral Cues." USAF-58-47 [See Oversized Box 57 File 10]	Mar. 1958
	4	Anthony J. Antenucci, "State-of-the-art Review of Altimeter Displays." US Army Human Engineering Laboratory Technical Note- 4-74	Mar. 1974
	5	Alan M. Poston, "The effects of Eliminating Minor Graduations on Dial Reading Performance." U.S. Army Human Engineering Laboratory- Technical Note 12-77	Sep. 1977

	6	“Research and Development of a Hot Gas Flight Stabilization System.” WADD-TR-60-449	Sep. 1960
	7	James V. Bradley, “Distribution Free Statistical Tests.” WADD-TR-60-661	Aug. 1960
	8	T.C. Way, R.E. Hobbs, J. Qualy-White, J.D. Gilmour, “3-D Imagery cockpit Display Development.” WRDC- TR-90-7003	Aug. 1990
	9	C. H. Hutchinson, “Automobile Driving Simulator Feasibility Study.” YM-1244-V-6 [NOTE: This report was photocopied and enlarged from photographs]	Nov. 18, 1958
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
41	1	C. H. Hutchinson, “Automobile Driving Simulator Feasibility Study.” YM-1244-V-6	Nov. 18, 1958
SERIES XII: JOURNALS, ARTICLES, MISC PAPERS			
<u>Box</u>	<u>File</u>	<u>Item</u>	<u>Date</u>
41	2	Stanley N. Roscoe, “The Effects of Eliminating Biocular and Peripheral Monocular Visual Cues upon Airplane Pilot Performance in Landing.” Reprinted from Journal of Applied Psychology, Vol. 32, No. 6.	Dec. 1948
	3	A.C. Williams Jr., Ralph E. Flexman, “Evaluation of the School Link As an Aid in Primary Flight Instruction.” University of Illinois Aeronautics Bulletin: Number 5	Jun. 1949
	4	A.C. Williams, Jr., and S.N. Roscoe, “Evaluation of Aircraft Instrument Displays for Use with the Omni-Directional Radio Range (VOR)” Reprinted from Journal of Applied Psychology, Vol. 34, No. 2.	Apr. 1950
	5	Ralph E. Flexman, William G. Matheny, and Edward L. Brown, “Evaluation of the School Link and Special Methods of Instruction in a Ten-Hour Private Pilot Flight-Training Program.” University of Illinois Aeronautics Bulletin: Number 8	Jul. 1950
	6	Stanley Roscoe, “Flight by Periscope.” University of Illinois Aeronautics Bulletin: Number 9	1951
	7	Floyd Marvin Morris, “The influence of Kinesthesia Upon Near Heterophoria Measurements.” (Indiana University Masters Thesis) [See Oversized Box 57 File 11]	Jan. 1958
	8	Jack C. McPhee, “The Influence of Contacts on Inter-Hospital Relationships.” A Study of Air Force and Non-Federal Civilian Hospitals [See Oversized Box 57 File 12]	Apr. 1958

	9	Margaret Thaler Singer, Edgar H. Schein, "Projective Test Responses of Prisoners of War Following Reparation." Psychiatry: Journal for the study of interpersonal process Vol 21 No. 4 [See Oversized Box 57 File 13]	Nov. 1958
	10	J. Douglas Grant and Marguerite Q. Grant, "A Group Dynamics Approach to the Treatment of Nonconformists in the Navy" Reprinted: The Annals of the American Academy of Political Science [See Oversized Box 57 File 14]	Mar. 1959
	11	Harold E. Bamford, Lewis F. Hanes, and Summitt E. Wilson, "Missions for Manned Military Spacecraft." Human Factors, Vol.1, No.2	1959
	12	Unsolicited Proposal for Simplified Pictorial Navigation Display	Jan. 19, 1965
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
41	13	"8 th Annual IEEE Symposium Human Factors in Electronics." Technical Digest	May 3-5, 1967
	14	Jerry Titus, "The Dynamics of Motor Car Handling"	1971
	15	"New Program to Study Driver Errors," The Guardian	Oct. 18, 1973
	16	Human Factors Society 18 th Annual Meeting Acceptance Note	Jun. 25, 1974
	17	F.J. Jankowski, "Trade Studies: An Important Component Of Systems Engineering." Paper for American Society For Engineering Education Annual Conference.	Jun 16, 1975
	18	The Dallas Morning News Clipping	May 23, 1976
	19	F.J. Jankowski, "Encouraging Creativity and Innovation in an Engineering Organization." Abstract	1976
	20	John Dinkel, "The New R&T Road Test: The Greatest Advance in Road Testing Since the Invention of the Fifth Wheel." Road & Track Magazine	May 1977
	21	Malcolm M. Cohen, "Disorienting Effects of Aircraft Catapult Launchings III: Cockpit Displays and Piloting Performance." Aviation Space and Environmental Medicine	Sep. 1977
	22	Robert J. Kelly, Henry W. Redlien, Jack L. Shagena, "Landing Aircraft Under poor conditions: Time-reference scanning beams characterize the all-weather microwave Landing system that will replace present system." IEEE Spectrum	Sep. 1978
	23	Systems Engineering Applied to Engine Control	1978
	24	John Dinkel, "Road Testing: Finding out what the Brochures can't tell you." Road & Track Magazine	[Circa 1979]
	25	Fundamental Change at NRC, Human Factors Society Bulletin	Mar. 1980
	26	The Human-Machine Interface in Airborne Systems-IEEE/AESS, Dayton, Ohio TH 0084-4	Dec. 3, 1980
	27	TMI Plus 2, Two Years After the Ordeal at Three Mile Island, a Restructured, Safer Nuclear Industry is envisaged	Apr. 1981

	28	“Prospectus: FAA Technical Center Human Factors Engineering Capability.” U.S. Department of Transportation, Federal Aviation Administration	May 1981
	29	Control-Room Design, Lessons from TMI	Jun. 1982
	30	Automation Begins with Systems Engineering-Editorial	Sep. 1982
	31	27 th Annual Air Traffic Control Association Fall Conference Proceedings	Oct. 18-21, 1982
	32	Human Factors Society Bulletin	Dec. 1982
	33	News Clippings	Undated
42	1	Turning Ideas into Reality, 24 th Annual Awards Banquet	Feb. 24, 1983
	2	Dayton Section IEEE, “Mini” Conductor	Feb. 1983
	3	Book Review, “Human Performance Engineering: A Guide For Systems Design”	Mar. 1983
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
42	4	28 th Annual Air Traffic Control Association Fall Conference Proceedings	Oct. 24-28, 1983
	5	USAF Studying Future Cockpit Display	Feb. 27, 1984
	6	Aero and Electronic Systems Advanced Concepts and Pioneering Prospectus IEE/AESS Symposium, Dayton, Ohio	Nov. 14, 15, 1984
	7	Colleen Cordes, “Military Waste: The Human Factor,” American Psychological Association Vol. 16, no 7	Jul. 1985
	8	Guy T. Germana, Peter L. Massoglia, Martin T. Pozesky, “The Use of Satellite Technology for Oceanic Air Traffic Control”	Nov. 1989
	9	34 th Air Traffic Control Association Fall Conference Proceedings	1989
	10	James F. Parker, “Human Factors Issues in Aircraft Maintenance and Inspection-Information Exchange and Communications.” FAA Meeting	May 1990
	11	Cockpit Automation Effectiveness Evaluation Technology	Jul. 1990
	12	“Applications of Artificial Intelligence for Engineering Management.” IEEE Symposium	Oct 24, 1990
	13	James F. Parker, “Human Factors Issues in Aircraft Maintenance and Inspection-Training Issues”	Nov. 1990
43	1	Professional Aeromedical Transport Association Information	Sep. 8, 1992, Jan. 2, 1993
	2	Roy Cheville: The Patriarch Years Publishing Documents	1997
	3	Slipstream: Cal Aero Academy	Mar. 20, [?]
	4	“How Good Were the Jap Planes?”	Undated
	5	Maintenance of Air Force Personnel Performance	Undated
	6	Evaluation Technology: An Example	Undated
	7	Lietu. Wilfred Owen, “Stop Blaming the Pilot!”	Undated

SERIES XIII: Reference			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
44	1	Clement R. Brown, Mauree W. Ayton, Thomas C. Goodwin, Thomas J. Derby, "Infrared-A Bibliography." Library of Congress Technical Information Division	Dec. 1954
	2	David Bushnell, "AFMDC-Origin and Operation of the First Holloman Track-1949-1956." Volume I, History of Tracks and Track Testing at the Air Force Missile Development Center	Dec. 1959
	3	"Pert-Time Systems Computer Handbook Programmer's Guide- Advance Copy for AFSC Implementation" Volume II	Sept. 1963
	4	"Pert-Cost System Description Manual Advance Copy for AFSC Implementation" Volume III	Dec. 1963
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
45	1	"Pert-Cost System Computer Program Handbook Part I Program User's Guide- Advance Copy for AFSC Implementation" Volume III	Dec. 1963
	2	A.V. Palladin, "Biochemistry of the Nervous System."	1967
	3	US Department of Transportation, "Public Roads- A Journal of Highway Research." Vol. 35 No. 9	Aug. 1969
	4	Steven K. Rodgers, Matthew Kabrisky, Dennis W. Ruck, Gregory L. Tarr, "An Introduction to Biological and Artificial Neural Networks."	Jul. 23, 1990
	5	Publication List	Undated
46	1	Human Factors Design Handbook, Signed by Dr. Ritchie's Students	Undated [1981]
SERIES XIV: MICROFILM AND SLIDES			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
		Subseries XIV A: Microfilm	
47	1	AD36076 (425MF)	Undated
	2	AD37703 (418MF)	Undated
	3	AD 52465 (416MF)	Undated
	4	AD62058 (426MF)	Undated
	5	AD62283 (402MF)	Undated
	6	AD62287 (414MF)	Undated
	7	AD62288 (432MF)	Undated
	8	AD62567 (410MF)	Undated
	9	AD63625 (403MF)	Undated
	10	AD63934 (419MF)	Undated

	11	AD63936 (439MF)	Undated
	12	AD64208 (423MF)	Undated
	13	AD64468 (428MF)	Undated
	14	AD65877 (405MF)	Undated
	15	AD68003 (427MF)	Undated
	16	AD68618 (409MF)	Undated
	17	AD69810 (434MF)	Undated
	18	AD70214 (435MF)	Undated
	19	AD70889 (420MF)	Undated
	20	AD71203 (437MF)	Undated
	21	AD73367 (413MF)	Undated
	22	AD73134 (438MF)	Undated
	23	AD73368 (411MF)	Undated
	24	AD73369 (436MF)	Undated
	25	AD73386 (400MF)	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
47	26	AD73445 (401MF)	Undated
	27	AD74002 (408MF)	Undated
	28	AD75475 (412MF)	Undated
	29	AD75486 (430MF)	Undated
	30	AD76361 (433MF)	Undated
	31	AD76372 (406MF)	Undated
	32	AD81997 (407MF)	Undated
	33	AD85908 (429MF)	Undated
	34	AD91923 (404MF)	Undated
	35	AD92495 (422MF)	Undated
	36	AD93312 (421MF)	Undated
	37	AD94663 (424MF)	Undated
	38	AD102071	Undated
	39	AD234862	Undated
	40	“Key Board Neg”	Undated
	41	“Lit Search Space Posi Valve”	Undated
	42	Red and Yellow container	Undated
	43	8 rolls of loose negatives	Undated
48	1	1	Undated
	2	1	Undated
	3	1	Undated
	4	1A	Undated
	5	1P	Undated
	6	1P	Undated
	7	2	Undated
	8	2	Undated
	9	2	Undated
	10	2A	Undated

	11	3	Undated
	12	3	Undated
	13	3	Undated
	14	3A	Undated
49	1	4	Undated
	2	5	Undated
	3	6	Undated
	4	7	Undated
	5	8	Undated
	6	9	Undated
	7	10	Undated
	8	11	Undated
	9	12	Undated
	10	13	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
50	1	14	Undated
	2	15	Undated
	3	16	Undated
	4	17	Undated
	5	18	Undated
	6	19	Undated
	7	20	Undated
	8	21	Undated
	9	22	Undated
51	1	23	Undated
	2	24	Undated
	3	25	Undated
	4	26	Undated
	5	27	Undated
	6	28	Undated
	7	29	Undated
	8	30	Undated
	9	31	Undated
52	1	32	Undated
	2	33	Undated
	3	34	Undated
	4	35	Undated
	5	36	Undated
	6	USER CODE-6403-102-I/S	Undated
	7	USER CODE-6403-102-I/S	Undated
	8	USER CODE-6403-102-I/S	Undated
	9	USER CODE-6403-102-I/S	Undated

	10	USER CODE-6403-102-I/S	Undated
53	1	USER CODE-6403-102-I/S	Undated
	2	USER CODE-6403-103-I/S	Undated
	3	USER CODE-6403-103-I/S	Undated
	4	USER CODE-6403-103-I/S	Undated
	5	USER CODE-6403-204-I/S	Undated
	6	USER CODE-6403-204-I/S	Undated
	7	USER CODE-6403-204-I/S	Undated
		Subseries XIV B: Slides	Undated
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
54	1	Model "T" Concept 1 Slide 1	Undated
	2	Model "T" Concept 1 Slide 2	Undated
	3	Model "T" Concept 1 Slide 3	Undated
	4	Model "T" Concept 1 Slide 4	Undated
	5	Model "T" Concept 1 Slide 5	Undated
	6	Model "T" Concept 1 Slide 6	Undated
	7	Model "T" Concept 2 Slide 1	Undated
	8	Model "T" Concept 2 Slide 2	Undated
	9	Model "T" Concept 2 Slide 3	Undated
	10	Model "T" Concept 2 Slide 4	Undated
	11	Model "T" Concept 2 Slide 5	Undated
	12	Model "T" Concept 2 Slide 6	Undated
55	1	Attitude Control Glass Slide 1	Undated
	2	Attitude Control Glass Slide 2	Undated
	3	Attitude Control Glass Slide 3	Undated
	4	Attitude Control Glass Slide 4	Undated
	5	Attitude Control Glass Slide 5	Undated
	6	Attitude Control Glass Slide 6	Undated
	7	Attitude Control Glass Slide 7,8,9 (Stuck together)	Undated
56	1	ASTRO File 1	Undated
	2	ASTRO File 2	Undated
	3	ASTRO File 3	Undated
	4	ASTRO File 4	Undated
	5	"METHODS" II Slide 1	Undated
	6	"METHODS" II Slide 2	Undated

	7	"METHODS" II Slide 3	Undated
	8	"METHODS" II Slide 4	Undated
	9	"METHODS" II Slide 5	Undated
	10	"METHODS" II Slide 6	Undated
	11	"METHODS" II Slide 7	Undated
	12	"METHODS" II Slide 8	Undated
	13	"METHODS" II Slide 9	Undated
	14	"METHODS" II Slide 10	Undated
		Oversized Material	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
57	1	Arctic Travelers Information	Apr-May 1958
	2	State of Ohio Board of Psychology Certificate	Apr. 1, 1974
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
57	3	Honorary Member of Arizona Certificate	Jun. 7, 1977
	4	Airplane Drawing	Undated
	5	Beatrice Finkelstein, Bernice McGhee, "Liquid Diets For Use in High-Altitude, High-Performance Vehicles." WADC-TR-59-32	Mar. 1959
	6	Ruth E. Hartley, "Variables Associated with Acceptance of the Navy as a Reference Group." Acceptance of New Reference Groups- NR- 171-033 Contract NONR-1597 (01)	Mar. 15, 1958
	7	C.W. Sem-Jacobsen, O. Nilseng, C. Patten, O. Eriksen, "Airborne EEG Recording in High Performance Aircraft." Contract No: AF 61 (514)-1201	Jan. 28, 1959
	8	S.F. Cook, H.A. Leon, "Physiological Effects of Inert Gases." AFMDC-TR-59-26	Jun1959
	9	Lawrence R. Pinneo, Murray L. Kesselman, "Tapping the Electric Power of the Nervous System for Biological Telemetry." RADC-TN-59-15	May 1959
	10	W. Lynn Brown, Richard M. Carr, John E. Overall, "The Effect of Whole-Body Radiation Upon Association of Peripheral Cues." USAF-58-47	Mar. 1958
	11	Floyd Marvin Morris, "The influence of Kinesthesia Upon Near Heterophoria Measurements." (Indiana University Masters Thesis)	Jan. 1958
	12	Jack C. McPhee, "The Influence of Contacts on Inter-Hospital Relationships." A Study of Air Force and Non-Federal Civilian Hospitals	Apr. 1958
	13	Margaret Thaler Singer, Edgar H. Schein, "Projective Test Responses of Prisoners of War Following Reparation." Psychiatry: Journal for the study of interpersonal process Vol. 21 No. 4	Nov. 1958
	14	J. Douglas Grant and Marguerite Q. Grant, "A Group Dynamics	Mar. 1959

		Approach to the Treatment of Nonconformists in the Navy.” Reprinted: The Annals of the American Academy of Political Science	
<u>Oversized Drawer</u>			
74	1	Night Fighter Reunion Photograph [See OS Drawer 74 File 1]	2004