

PURDUE

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<http://www.isc.nasa.gov/Bios/portraits/ross.jpg>

FINDING AID TO THE JERRY L. ROSS PAPERS, 1889-2013

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Virginia Kelly Karnes Archives and Special Collections
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Processed by: Mary A. Sego, August 20, 2013
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Descriptive Summary

Creator Information	Ross, Jerry L., 1948-
Title	Jerry L. Ross papers
Collection Identifier	MSA 283
Date Span	1940-2013, predominant 1970-2000
Abstract	<p>This collection includes materials that document Ross' student life at Purdue, his test flight engineer work, and NASA career as an engineer and astronaut. The collection includes Purdue coursework, textbooks, and memorabilia; papers from Ross' work at Edwards Air Force Base, Wright Patterson Air Force Base, and Test Pilot School; NASA Space Shuttle training, mission documents and scrapbooks, artifacts, and flight crew films and interviews. Examples of the types of materials in the collection include aircraft flight test manuals, flight reports, mission plans, and checklists for the B-1 aircraft, Test Pilot School materials, NASA course materials, publications, and Space Shuttle Mission checklists, manuals, handbooks, an oral history interview, and 16mm and VHS films. In particular, this collection provides an insider's view of space exploration, and a window through which we may begin to understand and take measure of the era of the United States Space Shuttle Program.</p>
Extent	46.10 cubic feet (13 c.f. boxes, 53 full width letter size mss boxes, 4 half width letter size mss box, 13 full width legal size mss, 5 half width legal size mss boxes, 1 large flight suit box, 4 large flat boxes, 1 small flat box, 2 small artifact boxes and 428 MB)
Finding Aid Author	Mary A. Segó, 2013
Languages	English, Russian, German
Repository	Virginia Kelly Karnes Archives and Special Collections Research Center, Purdue University Libraries

Administrative Information

Location Information: ASC

Access Restrictions: Collection is open for research. Per donor request, some DVDs and VHS cassettes are listed as restricted, consult with archivist. Two folders contain confidential information and are marked as restricted.

Acquisition Information: Donated by Jerry L. Ross in multiple accessions over the period 2012-2015, the largest being on March 19, 2012.

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Related Materials Information: Jerry L. Ross: An Astronaut's Journey:
<http://collections.lib.purdue.edu/ross/>

Purdue's Place in Space: From the Midwest to the Moon:

<http://collections.lib.purdue.edu/moon/index.php>

Subjects and Genres

Persons

Ross, Jerry L., 1948-
Ross, Karen S. Pearson

Organizations

National Aeronautics and Space Administration (U.S.)
United State Air Force

Topics

Purdue University-- alumni and alumnae
Flight Archives at Purdue University
Space Shuttle Missions
National Aeronautics and Space Administration (U.S.)
Test Pilot
Astronauts--1980-1990
Astronauts--Training of.
Spacewalk
Columbia (Spacecraft)--Accidents--Investigation

Form and Genre Types

Aerospace engineering--Handbooks, manuals, etc.
Aerospace engineering--Periodicals
Aerospace engineering--Textbooks
Artifacts
Awards
Certificates
Checklists
Clippings, newspaper
Correspondence
Diaries
Digital moving image formats
Fan mail
Flight logs
Handbooks
Manuals
Newspapers
Notebooks
Patches
Photographs
Reports
Scrapbooks
Textbooks
Thesis

Occupations

Astronauts--United States

Mechanical Engineer

Test Pilot

Biography of Jerry L. Ross

Jerry L. Ross was born in Crown Point, Indiana on January 20, 1948 to Donald and Phyllis (Dillabaugh) Ross. On January 25, 1970, he married Karen Sue Pearson, who he had met at Purdue University. He received a Bachelor of Science and Master of Science degree in Mechanical Engineering from Purdue University in 1970 and 1972, respectively. Ross was an Air Force ROTC student at Purdue and received his commission upon graduation. After completing his master's degree, he entered active duty with the Air Force and was assigned to the Aero-Propulsion Laboratory at Wright-Patterson Air Force Base, Ohio. Among several assignments at Wright-Patterson, Ross conducted computer-aided design studies on ramjet and mixed-cycle propulsion systems and served as the project engineer for tests of a supersonic ramjet missile.

Ross graduated from the United States Air Force Test Pilot School's Flight Test Engineer Course in 1976 and was subsequently assigned to the 6510th Test Wing at Edwards Air Force base, California. While on assignment to the 6510th's Flight Test Engineering Directorate, he was project engineer on a limited flying qualities evaluation of the RD-135S aircraft and as lead B-1 flying qualities flight test engineer. He was responsible for the stability and control and flight control system testing performed on the B-1 aircraft, along with being chief B-1 flight test engineer, for training and supervising all Air Force B-1 flight test engineer crewmembers and for performing mission planning for the B-1 offensive avionics test aircraft. Ross has flown in 21 different types of aircraft, holds a private pilot's license and has logged more than 4,100 flying hours, the majority in military aircraft.

In 1979, Ross was assigned to the Payload Operations Division at the Johnson Space Center as a payload officer and flight controller. He was selected to be an astronaut in May 1980. Ross' first shuttle flight, STS-61B, was as a mission specialist aboard the Shuttle Atlantis in late 1985. During this 165-hour, 108-orbit mission, the crew conducted two six-hour spacewalks to demonstrate space station construction techniques and operated several scientific experiments. Ross flew aboard Atlantis a second time, again as a mission specialist on STS-27, in December 1988. This mission carried a Department of Defense payload as well as a number of secondary payloads. In the three-year period between his first two shuttle flights, Ross helped develop assembly concepts for the space station and participated in the development of a higher pressure space suit and gloves.

Ross went on to serve again as a mission specialist for STS-37 in 1991, the Payload Commander on STS-55/Spacelab-D2 in 1993, and mission specialist on the second Space Shuttle to rendezvous and dock with the Russian Space Station Mir, STS-74 in 1995. In 1998 he undertook the first International Space Station (ISS) assembly mission, STS-88 and another Space Station assembly mission, STS-110 in 2002. A veteran of seven space flights, Ross logged more than 1,393 hours in space, including 58 hours and 18 minutes of Extravehicular Activity on nine spacewalks. He

was the first human to be launched into space seven times. These seven flights comprise a world record that Ross now shares with one other NASA astronaut. Both his number of and time on spacewalks are all time second highest among NASA astronauts.

He retired from the Air Force on March 31, 2000 and from NASA on his birthday in January 2012. He is one of only three astronauts to serve throughout the Space Shuttle program, from the first launch in 1981 to the last in 2011. In addition to tying for the most number of launches with seven, Ross ranks third in the world for his nine spacewalks. He was among the first astronauts to enter the International Space Station in orbit, played a key role in recovering pieces of the Columbia Shuttle after its tragic accident, and helped develop facilities, tools and techniques that continue to be used in space today.

Ross released his autobiography, *"Spacewalker: My Journey in Space and Faith as NASA's Record-Setting Frequent Flyer"* in January 2013, and a children's book, *"Becoming a Spacewalker, My Journey to the Stars"* in September 2014.

Jerry and Karen Ross have two children and three granddaughters.

Sources:

National Aeronautics and Space Administration biographical data sheet (2012) and collection material

Collection Description

Scope

The Jerry L. Ross papers; (1889-2013; 46.10 cubic feet) document Ross' student life at Purdue, his test flight engineer work, and NASA career as an engineer and astronaut. The collection includes Purdue coursework and memorabilia; papers from Ross' work at Edwards Air Force Base, Wright Patterson Air Force Base, and Test Pilot School; NASA Space Shuttle training, mission documents and mission related scrapbooks, memorabilia, and flight crew films and interviews, along with documents and maps from Ross' work on Space Shuttle Columbia accident recovery operation. Also included are 64 NASA publications, 45 aerospace, aviation and Purdue journals and publications. Examples of the types of materials in the collection include Purdue textbooks, aircraft flight test manuals, flight reports, mission plans, and checklists for the B-1 aircraft, Test Pilot School materials, NASA course materials, and Space Shuttle Mission checklists, manuals, handbooks, an oral history interview, and 16mm and VHS films. There are numerous clippings featuring Ross and fellow astronauts, space shuttle missions, NASA history, Purdue astronaut reunion and other events. In particular, this collection provides an insider's view of space exploration, and a window through which we may begin to understand and take measure of the era of the US Space Shuttle Program.

Arrangement

The papers are organized into ten series:

Series 1. Youth, 1952-1965 (0.2 cubic feet). The savings account booklet in this series signifies the hard work Ross undertook for his college education. Entries go back to his youth and continue throughout his high school years. The booklet includes entries from his parents, Donald and Phyllis Ross. Also included is a Crown Point Bulldogs license plate and football programs from Ross' time as a player during high school.

Series 2. Education, 1945-1972 (6.50 cubic feet). This series includes materials documenting Jerry Ross' coursework at Purdue University, including ROTC training and certificate of meritorious achievement - "Outstanding Basic Cadet" Award, a two page reflection on "My Career in the Air Force;" reports and research material from his master's thesis, and training material from Maxwell Air Force Base and Gunter Air Force Base. Ross' United States Air Force special orders and documents are included, along with a few Air Force training items. Various Purdue University and Gunter Air Force Base memorabilia is featured, including but not limited to, newsletters, newspapers, pamphlets, certificates and programs. The course and training binders have been retained in the original binders, unless conditions warranted removal for preservation purposes. The binders include Ross' handwritten notes, homework assignments, tests and final exams. Many of Ross'

favorite textbooks, written by Purdue professors and others are also retained in this series.

Series 3. Professional Career, 1953-2011 (15.65 cubic feet). The Professional Career series is broken down into four sub-series, following the path of Ross' career. The four sub-series are as follows:

Sub-series 1. Air Force Active Duty and Test Pilot School, Wright-Patterson Air Force Base and Edwards Air Force Base, 1953-1976 (2.65 cubic feet). This sub-series covers the time Ross was in test pilot school, and includes his flight test engineer training course application, Air Force active duty documents and test pilot course material. The course binders and folders are in original order within the original binders and folders, unless their condition warranted removal to archival folders for preservation purposes. The finding aid lists the content of each of the nine training binders and five folders. Also included are student flight records and checklists for T-33, F-4, O-2A and RF-4C and a flight test engineering handbook, Ramjet propulsion documents and research, overhead sled testing/MACH transparencies, "Design MACH 23" and speech notes, and Society of Experimental Test Pilot Reports to the Aerospace Profession for 1965 and 1975. A technical achievement award from Air Force Systems Command and course material for Physics 125, which Ross taught at Sinclair Community College, Dayton, Ohio during this time period are also included in this sub-series. This course folder is marked restricted, since it contains student information.

Sub-series 2. Edwards Air Force Base and B-1, circa 1976-1981 (3.45 cubic feet). Within this sub-series are various United States Air Force flight mission plans and reports, B-1 strategic bomber crew checklists, manuals, flight reports, flying qualities and flight control systems evaluation and B-1 related photographs and clippings. Issues of *Journal of the Society of Flight Test Engineers and Flight Test NEWS* from 1978-1981 are also included. A few unique items; poem about Ross, script for a skit, cardboard Shuttle, diagram for antenna installation CB1 configuration, "Cobra Ball I (ES7379) Tuft Study Test Conditions" and poster, "My Job" round out this series.

Sub-series 3. Early NASA, 1968-2003 (3.85 cubic feet). This series begins with Ross' letter of assignment to the Air Force Element, NASA; course materials - Introduction to Space Navigation, Orbital Mechanics and Rendezvous Techniques; Apollo 14-17 and Space Shuttle publications; STS-1 Space Shuttle documents; National Aeronautics and Space Administration, Jet Propulsion Laboratory/Rockwell International publications and images; National Aeronautics and Space Administration, Space Shuttle, flight training instructions; STS-3, STS-5, STS-7, STS-8 and STS-11 press kits, checklists and reports. STS- 41-B, 41-C, 41-D and 51-A material and STS-9 flight crew report. Also included is an Indianapolis Children's Museum folder, "Wide World of Space" from Ross' appearance there and a certificate of appreciation from Crown Point, Indiana (Ross' hometown).

Sub-series 4. Space Shuttle, 1984-2011 (5.25 cubic feet). This series is comprised of Space Shuttle systems handbooks and manuals, operations crew training handbooks, new employee orientation book, missions summaries, STS-37 checklists, STS-135 astronaut support personnel checklists, T-38 flight manual, International Space Station systems handbook, Columbia Accident Investigation Board report and NASA's Implementation Plan for Space Shuttle Return to Flight and Beyond. There are 13 binders in the series, original order has been retained and contents duly noted in the finding aid.

Sub-series 5. Space Shuttle Columbia Accident Recovery Operation, 2001-2011 (1.2 cubic feet) – Plus Oversized (OS) Items, See Series 9. Contained in this series are items related to Ross' leadership role in the recovery of the Space Shuttle *Columbia* wreckage. One can find reports, maps, Columbia recovery situation reports and action plans, investigation board reports; "Team E 5" correspondence, protocol information, field recovery status updates, lists of recovered items, situation reports, incident action plans, and additional documents. There is also STS-107 commemorative material, memorial service programs and other miscellaneous items.

Sub-series 6. Post-NASA, 2013 (0.2 cubic feet). This sub-series consists of a speech, given by Ross at his book signing and exhibit celebration in the Purdue University Virginia Kelly Karnes Archives and Special Collections Research Center, February 7, 2013. Ross has written two books published by the Purdue University Press: *Spacewalker: My journey in space and faith as NASA's record-setting frequent flyer*, 2013, and the children's book, *Becoming a spacewalker: My journey to the stars*, 2014.

Series 4. Audio Visual, 1940s-2012 (6.5 cubic feet). The Audio Visual series consists of four sub-series and are broken down as such:

Sub-series 1. VHS Cassettes, 1986-2006 (2.5 cubic feet). The tapes chronicle Space Shuttle mission highlights, flight crew activities and interviews. One tape is from the Purdue Distinguished Engineering Alumni Awards ceremony, for which Ross won the honor in 2004. The VHS cassettes have been numbered by Ross and remain in chronological order. Some numbers are missing, but those tapes were never part of the collection given to Purdue. One small box of VHS cassettes has been designated restricted by Ross and cover family and personal events. The last box of VHS cassettes contains miscellaneous material that was donated at a later date.

Sub-series 2. DVDs, 1986-2012 (1 cubic foot). The DVD collection was converted from the VHS cassettes for preservation purposes. The same order and restrictions apply. Also included are additional space related DVDs collected by Ross.

Sub-series 3. Film Reels, circa 1970s (2.5 cubic feet). The 16 mm films include a B-1 flight test report, flight evaluation and sled track tests, Department of the Air Force, Air Force Flight Test, and astronaut training activities in the 1980s and early

1990s. Space Shuttles covered are STS-27, STS-37, STS-55, 61-B, STS-74, STS-88. The Shuttle films focus on some onboard footage, crew presentations and post flight press conferences. The films are in chronological order.

Sub-series 4. Photographs, circa 1940s-2000s (0.25 cubic feet and 428 MB).

The bulk of the photographs were donated as digital files and have been stored accordingly for preservation purposes. Print copies were also made of the 78 images, and some are duplicated. The photographic prints highlight Ross' life from youth throughout his professional career, including activities at Purdue University. Also included among the prints are black and white and color photographs of Ross, including several of Ross in his astronaut flight suit. One photograph is titled, "Columbia Returns from Final Test Flight (STS-4) and is signed by Ross with note, "Taken by Me." There are two photographs of Ronald Reagan's inauguration in 1981 and one of Reagan at his desk in the Oval Office. There is a small package of negatives; six of Ross at work at his desk and three during anti-gravity training. Some of the photographs were given as gifts, and the correspondence/clippings can be found with the respective photograph.

Series 5. Scrapbooks, 1985-1998 (2 cubic feet). This series is comprised of seven scrapbooks that were either given to Ross as mementos of his flights or were compiled by him. The first scrapbook was presented to Ross (Amarillo's adopted astronaut) by the Amarillo Independent School District, the High Plains Aviation Association, and the City of Amarillo, Texas, and includes photographs, memorabilia, clippings, thank-you notes from students, correspondence, and items related to STS-61-B, Ross' first mission. Ross took the city flag of Amarillo, TX on STS-61-B and later presented it to the city. The second scrapbook, per Ross, contains black and white photographs "from hometown visit to Crown Point, IN and its schools after my first flight." The third scrapbook contains items from Ross' 2nd mission, STS-27, and the 4th is related to this mission also. The 4th is engraved on the front, "Presented to Lt. Colonel Jerry L. Ross, USAF by the Purdue 4-H Department, 1990," and is entitled, "4-H Roots in Space." It contains the signed document, Purdue Cooperative Extension diamond anniversary tree, commemorating 75 years of educational service to the people of Indiana." To commemorate the 75th anniversary of Extension, the seeds of two common Indiana tree species, the sycamore and tulip tree, accompanied NASA astronaut and former 4-Her on the December 1988 flight of the U.S. Space Shuttle Atlantis. Later the seeds were planted in each of the ninety-two IN counties as living reminders of Extension's role in meeting the educational needs of Indiana citizens during the past 75 years and its pledge of continuous service over the next 75 years. The scrapbook also contains clippings, correspondence, and color photographs related to Ross' involvement in this event and the planting of the trees.

Scrapbooks five and six include clippings, information kits, memorabilia, and photographs from missions STS-37 and STS-74. The last scrapbook was given to Ross by Tri-Central Elementary School, Sharpville, IN, to commemorate his visit to the school. It contains photographs and a school yearbook.

Material has been retained in original order.

Series 6. NASA Publications, Books, and Journals, 1968-2012 (5.2 cubic feet).

Numerous NASA publications, newsletters, and fact sheets can be found in this series. There are also publications related to Apollo, Skylab, Hubble service mission media guide, Proceedings of the Norderney symposium on scientific results of the German Spacelab Mission D-2, "America's Workhorse in Space: The first 100 missions of the Space Shuttle 1981-2000," "NACA 1915-NASA 1990 history," space shuttle mission profiles, payload flight assignments, pre-flight guides and post-flight reports. Sixty-four publications can be found in series, and they have been listed and arranged in chronological order.

The journals consist of various aviation and aeronautical magazines, and magazines featuring space related articles from the early 1960s. Other magazines feature articles about Ross, his colleagues and the shuttle. There are also "Clan Ross" newsletters, and journals published by or related to Purdue University. There are forty-five journals in the series, and they are arranged alphabetically and then chronologically.

Series 7. Correspondence and Clippings, 1971-1987 (4.25 cubic feet). Included are a letter with a drawing and two Valentine's Day cards from Ross' children, Valentine's from Ross' former elementary school teacher, congratulatory letters and cards upon Ross' selection as one of the astronaut candidates for the Space Shuttle, Purdue Alumni Association and College of Engineering related letters. Also included are appearance requests, thank-you letters for Ross' appearance at events and some fan mail. There are a few letters from space shuttle and United States Air Force colleagues.

The clippings include articles pertaining to Ross' and other astronaut's careers, Space Shuttle missions, clippings from ...*Roundup*, *NASA*, *NASA News*, Lyndon B. Johnson Space Center, *Flight Test News*, *The Purdue Alumnus*, *The Indianapolis Star*, *Indianapolis News*, various Indiana newspapers (since Ross is a Crown Point, Indiana native).

Among the correspondence and clippings are miscellaneous ephemera such as awards, certificates, mission invitations/information, programs (including a Chicago Cubs program with Ross on the cover), material from Ross' retirement celebration, family reunions and Purdue astronaut reunions, honorary degree and various visits to campus.

This series also contains entire newspapers and front page sections which have been placed into oversized (OS) boxes for preservation purposes. The papers feature, but are not limited to Mariner 4 and Mars photographs, Gemini missions, the first moon pictures from Surveyor, Apollo 11 and 12, Ross' shuttle missions, the shuttle Columbia and Challenger tragedies, and Purdue alumni astronaut reunions. Two posters were also included in these boxes for preservation reasons; ""Purdue

Engineering E-Week at Purdue April 12-17, 2004: Designing Space Suits For Mars, Amy Ross, BSME '94, MSME '96, Space Suit Engineer, Johnson Space Center, and "Convocation Distinguished Engineering Alumni, Profiles in Leadership," April 16, 2004.

The correspondence and clippings have been arranged in chronological order. Clippings and correspondence that arrived in groups were left as such.

Series 8. Artifacts, 1966-2013 (5.40 cubic feet). This series is made up of Ross' Purdue student life memorabilia, including Ross' and his wife's Tomahawk pledge paddles. Tomahawk is the co-ed service and leadership honorary where they met at Purdue. Also included are Circle Pines Co-op House pledge paddle and framed member photograph; Mechanical Engineering Honor Society, Pi Tau Sigma pledge paddle; Ross' flight helmet worn at the United States Air Force Test Pilot School and during his B-1 Bomber test flights at Edwards Air Force Base; NASA flight suit, Space Shuttle mission cloth patches; numerous awards, plaques, gifts of appreciation and thank-you items given to Ross over his career.

Series 9. Oversized Maps and Posters, 1981-2011 (132 linear feet). The oversized maps include numerous Columbia recovery zone maps, NASA astronaut corps posters, and a Russian astronaut poster, 25th and 30th anniversaries of the Space Shuttle program posters, International Space station posters, photo taken January 26, 2003 by the crew of the Space Shuttle Columbia, and Purdue astronaut reunion posters.

Series 10. Genealogy, 1889-1940 (0.2 cubic feet). This series contains the book compiled by Ross; "The Diaries of Harriet "Hattie" Dillabaugh 1889-1940." In Ross' words, "Daniel Dillabaugh and Hattie were the brother and sister-in-law of Colonel Ross' great-great grandfather Adam Dillabaugh. This book has fourteen chapters, each representing one of the diaries written by Hattie Dillabaugh. Colonel Ross has tried to transcribe the diaries just as they were written. While Colonel Ross' first reason for finding and reading the diaries was to further his genealogical efforts, once he had read them, he felt the need to publish the diaries to preserve their contents and to make them a more widely available historical resource."

"The appendices of the book include the genealogical information of the Reigart and Bender families, and the Dillabaugh and Lake families from Colonel Ross' resources. There are also appendices containing letters that Dan Dillabaugh wrote to friends in Michigan during and after the Civil War; a letter that was published in the Baker City newspaper, The Morning Democrat, from son Clyde Dillabaugh to his mother about the prospecting trip that he and his father were on in Honduras; and two of Clyde Dillabaugh's diaries."

Descriptive Rules

Describing Archives: A Content Standard

Processing Information

Materials have been re-housed into acid free folders and boxes, and into polyester sleeves when appropriate. The binders were retained in their original state, unless the condition warranted removal of papers for preservation reasons. Newsprint and clippings have been photocopied onto acid-free paper and the originals have been preserved for display purposes. Overhead training transparencies found in the test pilot school material have been copied onto acid-free papers, and the original transparencies have been retained. Artifacts have been separated and grouped together in a separate series for preservation and storage purposes. The flight suit has been preserved in a special archival box.

DETAILED DESCRIPTION OF THE COLLECTION

Series 1. Youth, 1952-1965

(0.2 cubic feet)

Box 1 *Savings Account Booklet, Crown Point Bulldogs License Plate, and Football Programs from Ross' Senior Year, 1952-1965*

Folder

1. Booklet; savings account, The First National Bank of Crown Point, Crown Point, Indiana, ("Jerry Lynn Ross or Phyllis Ross or Donald Ross" typed inside) 1952-1965
2. Crown Point Bulldogs license plate, circa 1965
3. Football programs, Crown Point High School, September – October 1965 (5 programs, Ross was a member of the football team)

Series 2. Education, 1945-1972

(6.5 cubic feet)

Box 2 *Resources, Training Material, Certificates, Programs, Reports and Special Orders, 1945-1969*

Item

1. Herzberg, G. (1945). *Atomic spectra and atomic structure* (rev. ed.). New York: Dover Publications.
2. Zucrow, M. J. (1951). *Report on progress and planning for gas turbine and jet propulsion program at Purdue University*. Lafayette, Indiana: School of Mechanical Engineering, Purdue University. (Zucrow was Professor of Gas Turbine and Jet Propulsion at Purdue University.)
3. Hawkins, G.A. (1951). *Thermodynamics*. (2nd edition). New York, New York: John Wiley and Sons, Incorporated. (Hawkins was Professor of Thermodynamics at Purdue University.)
4. Zucrow, M. J. (1958). *Report on progress and planning for gas turbine and jet propulsion program at Purdue University*. Lafayette, Indiana: School of Mechanical Engineering, Purdue University.
5. Jastrow, R. & Newell, H. E. (1963). *Why land on the moon?* Washington, D.C.: National Aeronautics and Space Administration: United States Government Printing Office.
6. United States, Department of the Air Force (1966). *Drill and ceremonies: training*. Washington, D.C.: Air Training Command, Department of the Air Force. (Air Force manual 50-14; "Jerry Ross" written on cover)
7. Certificate of Meritorious Achievement, Cadet Jerry L. Ross, Outstanding Basic Cadet Award, Air Force Reserve Officers Training Corps, Purdue

- University, September 13, 1967 – January 24, 1968 (includes citation and list of conferees)
8. Flight Certificate, Jet Flight in a T-33 Aircraft at Maxwell Air Force Base, Headquarters Air University, July 16, 1968
 9. "My Career in the Air Force," by Jerry L. Ross (2 page reflection by Ross on his future in the Air Force; "A" grade indicated on the first page, circa 1968
 10. Programs, Air Force ROTC Field Training, "Dining - In" (officers open mess) and Commencement Exercise, Gunter Air Force Base, Alabama, August 1 and 3, 1968
 11. Special orders and documents, Department of the Air Force, Headquarters 3800th Air Base Wing (AU), Maxwell Air Force Base, Alabama and Gunter Air Force Base, Alabama, April – August, 1968 (includes Ross' handwritten notes on the back of a flight roster)
 12. "Project Metro," *Manned Environment for Technology and Research in Orbit*, A report submitted to the A.S. 360 instructor of Purdue University by the 1969 junior class, 220th Cadet Wing, Air Force Reserve Officer Training Corps, May 1969 (Jerry L. Ross written on title page.)
 13. Graduate study in business, test scores, November 1969
 14. Certificate, Pi Tau Sigma, National Honorary Mechanical Engineering Fraternity, Purdue University, Purdue Beta Chapter, December 7, 1969

Box 3 *Purdue University, Courses, 1970-1971*

Item

1. Binder, Purdue University, ME 501, Statistical Thermodynamics, (retained in original binder, includes handwritten notes) Fall 1970
2. Binder, Purdue University, ME 551, Jet Propulsion Systems, (retained in original binder, includes handwritten notes) Fall 1970
3. Binder, Purdue University, ME 500, Thermodynamics (retained in original binder, includes handwritten notes) Spring 1971

Box 4 *Purdue University, Courses, 1971*

Item

1. Binder, Purdue University, ME 525, Combustion (retained in original binder, includes handwritten notes) Spring 1971

Box 5 *Reports and Research for Purdue University Master's Thesis, 1970-1971*

Item

1. Dyer, H. L. & Warner, C. F. (1970). *Staged Combustion Rocket Motor for Storable Propellants*. Lafayette, Indiana: Jet Propulsion Center, School of Mechanical Engineering, Purdue University. (Technical Memorandum, TM-

- 70-1)
2. American Institute of Aeronautics and Astronautics Paper No. 71-739; *Studies of Staged Combustion Rocket Motor Combustion Characteristics*, by H. L. Dyer and C. F. Warner, Purdue University, West Lafayette, Indiana. AIAA/SAE 7th Propulsion Joint Specialist Conference, Salt Lake City, Utah. June 14-18, 1971
 3. Liquid Propellants; calculations, test results, industrial spray nozzles and accessories catalogs, 1970-1971 (binder 1)
 4. [Nozzle calculations, pintle injector design, correspondence, sudden dump ring - drawing and prices on quartz windows] (binder 2)
 5. Combustion chambers for jet propulsion engines calculations and information, seminar material; "Development of a Slurry Fuel Injector," thesis progress report and correspondence, 1971 (binder 3, includes some black and white photographs)
 6. Two Purdue binders retained, have seal of Purdue University which includes three symbols, those of Science, Technology and Agriculture, circa 1958

Box 6 *Purdue University Master's Thesis, 1971-1972*

Folder

1. Presentation format for thesis and draft, 1971-1972 (binder 4)
2. Master's Thesis; *A Study of Fluid Injection Into a Subsonic Air Flow*, 1972
3. A proposal for research on studies of problem areas associated with the operation of slurry fueled propulsion systems. Prepared by B. A. Reese, Jet Propulsion Center, Purdue University, Lafayette, Indiana. Submitted to Power Branch, Office of Naval Research, Department of the Navy, Washington 25, D.C. through Purdue Research Foundation, Division of Sponsored Programs, Lafayette, Indiana. February 1, 1970 - January 31, 1971. (includes 3 progress reports, with Ross named on the 3rd, binder 5)
4. Warner, C. F.; Dyer, H. L.; Mayse, W. C. & Ross, J. L. (1972). *Studies Of Slurry Fueled Propulsion Systems Fourth Semiannual Progress Report*. Lafayette, Indiana: Jet Propulsion Center, School of Mechanical Engineering, Purdue University. (Office of Naval Research, Contract N00014-67-A-0226-0013)
5. Diagram, "'The" Slurry Fuel System," (initialed "H.L.D.") May 24, 1971

Box 7 *Purdue and Gunter Air Force Base Memorabilia (one textbook added later), 1953-1971*

Folder

1. Circle Pines House, Purdue University, 1966-1971

Item

1. Pamphlet, Circle Pines House, circa 1966
2. List of members, Circle Pines, 1966-1967
3. Newsletter, Circle Pines, Purdue University, April 1967

4. Newsletter, Circle Pines, Purdue University, "1939-1969"
5. Newsletter, "The Kingdom of Circle Pines," circa 1969
6. Newsletter, Circle Pines, Purdue University, 1971
7. Crest, Circle Pines, circa 1967-1969 (5)
8. Circle Pines logo, circa 1967-1969
9. Notes taken by Ross, Purdue and Circle Pines, circa 1967
10. Purdue University folder, undated
2. Tomahawk (Service and Leadership Honorary), Purdue University, 1967-1968

Item

1. Certificate; Tomahawk, "Jerry Ross, has been duly inducted into the National Independent Sophomore Honorary Service Fraternity at Purdue University, April 28, 1968
2. Tomahawk pledge list, 1968
3. Sophomore class council, 1967-1968
4. Spring pledge class list, Tomahawk pledging rules and standards, pledge board directions, pledge lesson, Purdue cheers, songs and creeds, 1968
5. Tomahawk actives list, 1968
6. Outline, History of Purdue and additional facts, 1968
7. University Book Store, Boilermaker folder, with Purdue Pete on the cover, undated (Tomahawk material originally stored in it, retained for historical purposes)
3. Program, 53rd Rose Bowl game, Purdue vs. University of Southern California and Rose Bowl ticket, January 2, 1967
4. Orientation Issue, Purdue *Exponent*, September 10, 1967
5. *Campus Beat*, Traditions Week, September 24-30, 1967 (Reamers newspaper)
6. Purdue *Exponent*, headlines, "Purdue Beats Notre Dame," September 30, 1967
7. Scorecard for Purdue vs. Minnesota basketball game, February 10, 1968
8. Program; Purdue Grand Prix, May 16-18, 1968
9. "Gunter Gr-rowler," newsletter, Air Force ROTC, Field Training Unit, issues 1-3, July 7 - August 3, 1968
10. Newsclipping, "Cadets represent many schools," *U.S. Air Force - Aerospace Power For Peace*, p. 19, July 12, 1968
11. Program, "Operation Skit Nite - Destroy TACS," circa 1968
12. Booklet; *The Story of Pi Tau Sigma*, National Honorary Mechanical Engineering Fraternity, 1969
13. Program; Purdue Grand Prix, May 15-17, 1969
14. Program; Convocation, admittance of Neil Alden Armstrong to the degree of Doctor of Engineering, Purdue University, January 9, 1970
15. Newsclipping; (1970, September 15). Most Famous Alumnus: Armstrong Tops Purdue-Grad Space Group. *The Journal and Courier*, p. 44. (author not noted)
16. 220th Air Force Reserve Officer's Training Corps Cadet Wing, Purdue

University, 1969-1970

Item

1. Member list, Angel Flight, Fall, 1969
2. Directory; Advanced Corps, prepared by Arnold Air Society, Spring, 1970
3. "Handy abbreviation guide," circa 1970
17. Programs, Purdue University Commencement, June 7, 1970 (2 copies) and June 13, 1971 ("Jerry Lynn Ross" label on 1970 program)
18. Shapiro, A. H. (1953). *The dynamics and thermodynamics of compressible fluid flow*. Volume I. New York: The Ronald Press Company. (Ross' name written inside cover)

Box 8 *Purdue University Textbooks, 1956-1962*

Item

1. Merrill, G. (1956). *Principles of guided missile design*. Princeton, New Jersey: D. Van Nostrand Company, Inc. (Ross' name written inside cover)
2. Eckert, E.R.G. (1959). *Heat and mass transfer*. (2nd ed.). New York: McGraw-Hill. (Ross' name written inside cover)
3. Kaplan, W. (1959). *Advanced calculus*. Reading, Massachusetts: Addison-Wesley Publishing Company. (Ross' name written inside cover).
4. Davidson, N. (1962). *Statistical Mechanics*. New York: McGraw-Hill. ("ME 501, Purdue University, Fall 1970, Frank Incropera," slip of paper with notations placed in sleeve and left on page where found, Ross' name written inside cover)

Box 9 *Purdue University Textbooks, 1962-1965*

Item

1. Shames, I. H. (1962). *Mechanics of fluids*. New York: McGraw-Hill. (Ross' name written inside cover)
2. Hesse, W. J.; Mumford, N.V.S., Jr. (1964). *Jet propulsion for aerospace applications*. New York: Pitman Publishing Corporation. (Ross' name written inside cover)
3. Blakelock, J.H. (1965). *Automatic control of aircraft and missiles*. New York: John Wiley & Sons, Inc.
4. Golomb, M.; Shanks, M. (1965). *Elements of ordinary differential equations*. New York: McGraw-Hill. (Ross' name written inside, Golomb and Shanks were both Mathematics professors at Purdue)

Box 10 *Purdue University Textbooks, 1965-1967*

Item

1. Hatsopoulos, G. N.; Keenan, J. H. (1965). *Principles of general thermodynamics*. New York: John Wiley & Sons, Inc. (Ross' name written inside cover)
2. Holowenko, A. R. (1965). *Dynamics of machinery*. New York: John Wiley & Sons, Inc. (Ross' name written inside cover, Holowenko was a ME professor at Purdue)
3. Shames, I.H. (1966). *Engineering mechanics: Volume 1: Statics*. (2nd edition). Englewood Cliffs, New Jersey: Prentice-Hall, Inc. (Ross' name written inside cover)

Box 11 *Purdue University Textbooks, 1966*

Item

1. Smith, R.J. (1966). *Circuits, devices, and systems: A first course in electrical engineering*. New York: John Wiley & Sons, Inc. (Ross' name written inside)
2. Snyder, M.K. (1966). *Chemistry: Structure and reactions*. New York: Holt, Rinehart and Winston, Inc.
3. Taylor, A. E. (1966). *Calculus with analytic geometry*. Englewood Cliffs, New Jersey: Prentice-Hall, Inc. ("Jerry Ross Circle Pines" written inside cover, note cards, notations, basketball ticket - Indiana vs. Purdue, November 19, 1966, and booklet with supplementary problems and answers inside book)

Box 12 *Purdue University Textbooks, 1966-1967*

Item

1. Wark, K. (1966). *Thermodynamics*. New York: McGraw-Hill (Ross' name written inside cover, "Steam tables: Properties of saturated and superheated steam" booklet included, Wark was a ME professor at Purdue)
2. Dommasch, D. O.; Sherby, S. S.; Connolly, T. F. (1967). *Airplane aerodynamics*. New York: Pitman Publishing Corporation. (Ross' name written inside cover)
3. Sutton, G. P. (1967). *Rocket propulsion elements: An introduction to the engineering of rockets*. New York: John Wiley & Sons, Inc. (Ross' name written inside cover)

Box 13 *Purdue University Textbooks, 1968*

Item

1. Bellman, R. (1968). *Modern elementary differential equations*. Reading, Massachusetts: Addison-Wesley Publishing Company. (Ross' name written inside cover)
2. Byars, E. F.; Snyder, R. D. (1968). *Engineering mechanics of deformable bodies*. Scanton, Pennsylvania. (Ross' name written inside cover)

3. Holman, J.P. (1968). *Heat Transfer*. (2nd edition). New York: McGraw-Hill. (Ross' name written inside cover)
4. Romanowitz, H.A.; Puckett, R.E. (1968). *Introduction to electronics*. New York: John Wiley & Sons, Inc. (Ross' name written inside cover)

Box 14 *Purdue University Textbooks, 1969-1972*

Item

1. Harrison, H. L.; Bollinger, J. G. (1969). *Introduction to automatic controls*. Scranton, Pennsylvania: International Textbook Company. (Ross' name written inside cover)
2. Bradley, J.N. (1969). *Flame and combustion phenomena*. London: Methuen. (Ross' name written inside cover)
3. Hill, P.G.; Peterson, C.R. (1970). *Mechanics and thermodynamics of propulsion*. Reading, MA: Addison-Wesley. (Ross' name written inside cover)
4. Etkin, B. (1972). *Dynamics of atmospheric flight*. New York: John Wiley & Sons, Inc. (Ross' name written inside cover)

Series 3. Professional Career, 1953-2011

(15.65 cubic feet)

Sub-series 1. Air Force Active Duty and Test Pilot School, Wright-Patterson Air Force Base and Edwards Air Force Base, 1953-1976

(2.65 cubic feet)

Box 15 *Wright Patterson Air Force Base, 1956-1974*

Folder

1. Ramjet Propulsion documents and research, circa 1956-1973
2. (1967). Wright-Patterson Air Force Base: a pictorial review, 50th anniversary. Riverside, California: Armed Services Publishers.
3. Physics 125; Ross taught course at Sinclair Community College, Dayton, Ohio, and The President's Report, Sinclair Community College, circa 1971-1972 (handwritten notes) **RESTRICTED, Student Information**
4. McTaggart, L.E. (1973). Feasibility Of Ramjet Engine Test Capability On The Holloman Sled Track. Wright-Patterson Air Force Base, Ohio: Air Force Aero Propulsion Laboratory. (Technical Report AFAPL-TR-73-80)
5. Folder marked, "JANNAF Paper," circa 1973
6. A Fuel Data Standardization Study For JP-4, JP-5, JP-7, And RJ-5 Combusted In Air, Air Force Aero Propulsion Laboratory, Air Force Systems Command, Wright Patterson Air Force Base, Ohio, by Jerry L. Ross, 1st Lieutenant, United States Air Force, March 1974 (Technical Report, AFAPL-

- TR-74-22, 3 copies)
7. Oliver, F.W. (1974). Air Force Aero Propulsion Laboratory: Where The Airpower Comes From. Wright Patterson Air Force Base, Ohio: Operations Office, Air Force Aero Propulsions Laboratory.
 8. Ross, J.L. and Haars, N.W. "A program to investigate the potential of pocket sled testing of low altitude airbreathing propulsion systems," undated

Box 16 *Flight Test Engineer Training Course Application, Air Force Active Duty Documents and Test Pilot School Course Material, 1959-1976*

Folder

1. Flight Test Engineer Training Course, statement of availability, application and letter of recommendation, 1973-1974
2. United States Air Force, Test Pilot School Curriculum, Experimental Test Pilot Course, Flight Engineer Course, Edwards Air Force Base, California, February, 1974
3. Citation, Technical Achievement Award, Air Force Systems Command, 1974
4. Air Force Systems Command, Junior Officer of the Year Nomination, 1974
RESTRICTED, Confidential Information
5. Paperwork, Award of Meritorious Service Medal, 1975 (includes original folder with notes on cover)
6. United States Air Force Test Pilot School, Performance, "Volume 1 - Aerodynamic Theory," 1973 (binder 1, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Table of Contents
2. Chapter I, "The Atmosphere"
3. Chapter II, "Aerodynamics Introduction"
4. Chapter III, "Subsonic Aerodynamics"
5. Chapter IV, "Supersonic Aerodynamics"
7. United States Air Force Test Pilot School, Performance, "Volume I - Aerodynamic Theory," 1973 (binder 1, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Chapter V, "Hypersonic Aerodynamics"
8. United States Air Force Test Pilot School, Performance, "Volume II - Performance Flight Testing Theory," 1973 (binder 1, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Table of Contents
2. Chapter I, "Pitot-Static and Temperature Systems Theory"
3. Chapter II, "Energy Concepts and Non-Steady State Performance"
9. United States Air Force Test Pilot School, Performance, "Volume II - Performance Flight Testing Theory," 1973 (binder 1, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Chapter III, "Steady State Performance"
 2. Chapter IV, "Turning Performance"
 3. Chapter V, "Takeoff and Landing"
 4. Chapter VI, "Fuel Flow Corrections"
 5. Chapter VII, "Determination of Performance Data"
 6. Copy of cover of original binder
10. United States Air Force Test Pilot School, Performance, "Volume III - Performance Flight Test Techniques," 1973 (binder 2, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Table of Contents
 2. Chapter I, "Calibration Tests"
 3. Chapter II, "Climb Tests"
 4. Chapter III, "Cruise Performance Tests"
11. United States Air Force Test Pilot School, Performance, "Volume III - Performance Flight Test Techniques," 1973 (binder 2, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. Chapter IV, "Turning Performance Tests"
 2. Chapter V, "Takeoff and Landing Performance Tests"
 3. "Appendix A, The ARDC Model Atmosphere, 1959"
 4. "Appendix B, Pitot-Static Position Error Relations," April, 1967
 5. "Appendix C, Mach Number M versus Calibrated Airspeed V^c for Pressure Altitude $H^c = \text{Constant}$ with Lines of Standard Day True Speed $V^{ts} = \text{Constant}$," April 1967
12. United States Air Force Test Pilot School, Performance, "Volume III - Performance Flight Test Techniques," 1973 (binder 2, Bell and Howell Schools, DeVry Institute of Technology)

Item

1. "Appendix D, Atmosphere Charts," April 1967
 2. "Appendix E, Charts of Interest to the Aerospace Research Pilot School," April 1967
 3. "Performance Flight Test Planning Guide," United States Pilot School, Edwards Air Force Base, California, September 1974, revised August, 1975 (includes Ross' notes on cover)
13. Linear Control Systems, course material binder, United States Air Force Test Pilot School, Air Force Flight Test Center, Edwards Air Force Base, California, Air Force Systems Command, 1974 (includes notes and assignments, retained in original binder and original order)

Box 17 *Test Pilot School Course Material, 1968-1976*

Folder

1. Course material binder; Stability and Control, Volume I of II, Stability and

Control Flight Test Techniques, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

1. Introduction to Stability Flight Test Techniques
 2. Stalls
 3. Longitudinal Static Stability
 4. Table of Contents and Post-Stall/Spin Flight Test Techniques
 5. Maneuverability
 6. Trim Changes
 7. Lateral-Directional Flight Tests
 8. Engine-Out Operation
 9. Dynamic Stability
 10. Qualitative Flight Testing
2. Course material binder; Stability and Control, Volume II of II, Stability and Control Flight Test Theory, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

1. Table of Contents and Differential Equations
3. Course material binder; Stability and Control, Volume II of II, Stability and Control Flight Test Theory, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

2. Equations of Motion
4. Course material binder; Stability and Control, Volume II of II, Stability and Control Flight Test Theory, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

3. Longitudinal Static Stability
 4. Maneuverability
 5. Lateral-Directional Static Stability
5. Course material binder; Stability and Control, Volume II of II, Stability and Control Flight Test Theory, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

6. Comparison of Methods for Determining Damping Ratio and Undamped Natural Frequency From Flight Test Data, Prepared by Dennis C. McMaster, January 1968 (FTC-TIM-68-1002)
 6. Dynamics
 7. Post-Stall Gyration/Spins
6. Course material binder; Stability and Control, Volume II of II, Stability and Control Flight Test Theory, United States Air Force Test Pilot School, Edwards Air Force Base, California, July 1974

Chapter

8. Roll Coupling
Copy of cover of original binder
7. Course material binder, United States Air Force Test Pilot School, Wright

Patterson Air Force Base and Edwards Air Force Base, 1975-1976 (retained in original binder and original order)

Class

1. Operational Math, 1975 (includes assignments, reviews, exams and final)
2. Lateral-Directional Static Stability, 1975-1976 (includes assignments and notes)
3. Dynamics, 1975-1976 (includes assignments, reviews, exams)
4. Stall/Post Stall/Spin Course, 1976 (includes assignments and notes)
5. Aeroelasticity, 1976 (includes assignments and notes)
6. Inertial Navigation Systems, 1976 (includes assignments and notes)
7. Engine Out Theory and Flight Test Techniques, 1976 (includes terms)
8. Solid State Electronics, 1976 (includes glossary and notes)
9. External Stores Carriage and Separation Testing, United States Air Force Pilot School, Air Force Flight Test Center, Edwards Air Force Base, California, April, 1975
10. Weapons, circa 1975
11. Store Certification, circa 1975

Box 18 *Test Pilot School, Training Material, Student Flight Records and Checklists, 1974-1976*

Folder

1. T-33 Pilot Checklist, circa 1974 (removed from original ringed case for preservation purposes)
2. T-38 Pilot Checklist and KC-135 Passenger Brief, circa 1974
3. T-38 Pilot Checklist, 1974 (includes United States Air Force Curriculum list)
4. F-4 Checklist, RF-4 VFR Flight Procedures and "BLC" System Malfunction (Airplanes Without Slats) checklist, 1974
5. Student Flight Record; Student, Ross; Instructors, Luczak, Killebrew, Shall and Kerzie, 1975 (includes notes)
6. "Aircraft Notes and Sample Questions," 1975 (includes one B-1 Egress Training document, dated 1978)
7. O-2A documents, includes an O-2A speech by Ross and flight records, circa 1976
8. RF-4C documents, includes "initial flight test reports," circa 1975
9. United States Air Force RF-4C Aircraft Safety Supplement Flight Manual, 1974 (retained in original binder, cover off)

Box 19 *Test Pilot School, Training Material and Hewlett-Packard 9830A Calculator Manual, 1966-1975*

Folder

1. Course Material Binders, 1969-1975
- Item
1. "9830 Basic Quick Reference," BASIC Programming Information for Hewlett-Packard 9830A Calculator, circa 1975
 2. Stability and Control Phase Planning Guide, United States Air Force Pilot School, Edwards Air Force Base, California, 1975
 3. "MIL-F-8785B (ASG)," Military Specification Flying Qualities of Piloted Airplanes, August 7, 1969
 4. "MIL-F-8785B (ASG)," Military Specification Flying Qualities of Piloted Airplanes, Amendment 2, September 16, 1974
2. Course Material Binder, Flight Test Engineering Handbook (Technical Report No. 6273), United States Air Force, Air Force Systems Command, Air Force Flight Test Center, Edwards Air Force Base, California, May 1951, corrected and revised, June 1964 – January 1966
 3. Course Material Binder, "Class 75-B," "Vectors and Matrices," and "Airbreathing Propulsion Notes," 1975 (includes notes, assignments, problem sets, reviews and exams)

Box 20 *Test Pilot School, Training Material, 1953-1976*

Folder

1. Aircraft Crash Grid Map, Wright-Patterson Air Force Base, Ohio, 1971 (in poor shape)
 2. Final Report, "A New Method for Test and Analysis of Dynamic Stability and Control – AFFTC-TD-75-4," May 1976 ("Capt. Ross" written on cover)
 3. Naval Air Test Center, "Welcome Aboard" folder with various McDonnell Douglas aircraft vital statistics sheets inside, circa 1976 ("Capt. Ross" written on cover)
 4. Folder with "LA - Killebrew" and notations on cover, Dynamics information, slides and speech inside, circa 1976
 5. Folder labeled, "ME 500," circa 1975 (folder 1)
- Item
1. National Advisory Committee For Aeronautics, Report 1135, Equations, Tables, And Charts For Compressible Flow, by Ames Research Staff, 1953 ("Ross" printed on cover)
 2. Individual Flight Report, Stabilized Level Turn Performance, (RF-4C/64-1007) Jerry L. Ross, Capt. United States Air Force, Project Engineer, Class 75-B, November 12, 1975
 3. Level Acceleration and Sawtooth Climb Standard Parameters, circa 1975
 4. Performance Program, circa 1975
 5. Steady State Performance With Parameters, circa 1975
6. Folder labeled, "ME 500," circa 1975 (folder 2)

Item

1. Class 75-B Integrated Academics And Operations Schedule, Experimental Test Pilot Course, Flight Test Engineer Course, United States Air Force Test Pilot School, Edwards Air Force Base, California, September, 1975
2. Various Test Flight materials and student flight records, circa 1975
7. Folder labeled, "ME 500," circa 1975 (folder 3)

Item

1. T-33A Limited Stability And Control Test Plan, December 1974
2. Thermodynamics Review, United States Air Force Test Pilot School, circa 1974
3. Statics - Dynamics Review, United States Air Force Test Pilot School, January, 1969
8. Folder labeled, "ME 500," circa 1975 (folder 4)

Item

1. United States Air Force Test Pilot School, Calculus Review Course, 1975
2. "USAFTPS" Flying Instructor Background sheet, August 11, 1975
3. T-38 Limited Stability and Control Test Plan, January 1975
4. Individual Flight Report, Longitudinal Static Stability, T-38A/68-8154, January 14, 1976 (handwritten report by Ross)
5. Individual Flight Report, Lateral - Directional Stability, T-38A/68-8153, January 30 and February 2, 1976 (handwritten report by Ross)
6. Individual Flight Report, Dynamic Stability, T-38A/68-8153, February 27, 1976 (handwritten report by Ross)
9. The Society of Experimental Test Pilots, 1965 Report to the Aerospace Profession, September 24 and 25, 1965
10. The Society of Experimental Test Pilots, 1975 Report to the Aerospace Profession, September 24-27, 1975
11. "Letter Report," T-43A Limited Systems Evaluation, July 1976; Pilot Rating Scale and Handling Qualities Rating Scale, circa 1976
12. "Design MACH 23," circa 1976 (includes speech notes)

Box 21 *Test Pilot School, Training Material, Overhead Transparencies, circa 1973*

Folder

1. Overhead Transparencies, circa 1973 (copies made on archival paper)

Item

1. Three-Stage Outrigger Sled
2. Outline; A program to investigate the potential of rocket sled testing of low altitude airbreathing propulsion systems
3. Flight test vehicle image
4. Feasibility of Ramjet engine test capability on the Holloman sled track
5. Design criteria
6. Summary of tests

7. Image, rocket
 8. Chart, MACH numbers
 9. "Run 5," February 16, 1973
 10. "Run 6," April 6, 1973
 11. "Run 7," June 19, 1973
 12. Summary
 13. Image, United States Air Force, Rocket Sled
2. Narration for slides? undated

Sub-series 2. Edwards Air Force Base and B-1, circa 1976-1981
(3.45 cubic feet)

Box 22 *B-1, United States Air Force, Flight Mission Plans, 1976-1978*

Folder

1. Flight Mission Plan, Flight No. 1-41, includes student flight record, October 7, 1976
2. Flight Mission Plan, Flight No. 1-55, July 22, 1977
3. Flight Mission Plan, Flight No. 1-58, December 15, 1977
4. Flight Mission Plan, Flight No. 1-62, January 26, 1978
5. Flight Mission Plan, Flight No. 1-66, February 22, 1978
6. Flight Mission Plan, Flight No. 1-72, April 20, 1978
7. Flight Mission Plan, Flight No. 1-74, undated
8. Flight Mission Plan, Flight No. 2-11, circa 1978
9. Flight Mission Plan, Flight No. 2-14, circa 1978
10. Flight Mission Plan, Flight No. 2-25, circa 1978
11. Flight Mission Plan, Flight No. 2-26, 1978
12. Flight Mission Plan, Flight No. 2-33, circa 1978
13. Flight Mission Plan, Flight No. 2-34, October 21, 1977

Box 23 *B-1, United States Air Force, Flight Mission Plans, 1977-1979*

Folder

1. Flight Mission Plan, Flight No. 2-41, March 16, 1978
2. Flight Mission Plan, Flight No. 2-54, November 28, 1978
3. Flight Mission Plan, Flight No. 2-55, December 7, 1978
4. Flight Mission Plan, Flight No. 3-48, September 30, 1977
5. Flight Mission Plan, Flight No. 3-63, May 23, 1978
6. Flight Mission Plan, Flight No. 3-64, June, 1978
7. Flight Mission Plan, Flight No. 3-66, June 22, 1978
8. Flight Mission Plan, Flight No. 3-69, July 20, 1978
9. Flight Mission Plan, Flight No. 3-71, August 22, 1978
10. Flight Mission Plan, Flight No. 3-75, October 12, 1978
11. Flight Mission Plan, Flight No. 3-76, October 13, 1978

12. Flight Mission Plan, Flight No. 3-87, January 26, 1979
13. Flight Mission Plan, Flight No. 2-33, February 6, 1979

Box 24 *B-1, United States Air Force, Flight Reports, 1977-1979*

Folder

1. B-1 United States Air Force Flight Report, Flight No. 2-25, June 16, 1977 (USAF S/N 74-0159, 2 copies)
2. B-1 United States Air Force Flight Report, Flight Nos. 2-26/2-27, June 21-22, 1977 (USAF S/N 74-0159)
3. B-1 United States Air Force Flight Report, Flight No. 1-55, July 22, 1977 (USAF S/N 74-0158, 2 copies)
4. B-1 United States Air Force Flight Report, Flight No. 2-31, September 20, 1977 (USAF S/N 74-0159)
5. B-1 United States Air Force Flight Report, Flight No. 3-48, September 30, 1977 (USAF S/N 74-0160)
6. B-1 United States Air Force Flight Report, Flight No. 2-34, October 21, 1977 (USAF S/N 74-0159)
7. B-1 United States Air Force Flight Report, Flight No. 1-58, December 15, 1977 (USAF S/N 74-0158)
8. B-1 United States Air Force Flight Report, Flight No. 1-62, January 26, 1978 (USAF S/N 74-0158)
9. B-1 United States Air Force Flight Report, Flight No. 2-41, March 16, 1978 (USAF S/N 74-0159)
10. B-1 United States Air Force Flight Report, Flight No. 1-72, April 20, 1978 (USAF S/N 74-0158)
11. B-1 United States Air Force Flight Report, Flight No. 3-69, July 20, 1978 (USAF S/N 74-0160)
12. B-1 United States Air Force Flight Report, Flight No. 2-54, November 28, 1978 (USAF S/N 74-0178)
13. B-1 United States Air Force Flight Report, Flight No. 2-55, December 7, 1978 (USAF S/N 74-0159)
14. B-1 United States Air Force Flight Report, Flight No. 3-88, February 6, 1977 (USAF S/N 74-0160)

Box 25 *B-1, United States Air Force, Flight Crew Checklists and Reports, 1976-1978*

Folder

1. B-1 United States Air Force, Flight Test Mission Objectives, "DT&E Program," Contract F33657-70-C-0800, March 24, 1976
2. RC-135S Limited Flying Qualities Evaluation, Air Force Flight Test Center, Edwards Air Force Base, California, Air Force Systems Command, December 1976

3. B-1 Flight Crew Checklist, B-1 Aircraft, circa 1977 (AF 74-0160A)
4. Unmarked Checklist, circa 1977
5. B-1 Flight Crew Checklist, B-1 Aircraft, circa 1977 (AF 74-0158A and AF 74-0159A, "Checklist #1 & 2")
6. B-1 Flight Test Progress Report For B-1 Aircraft, Report No. 51, November 1978 (NA-74-300-51)

Box 26 *Flying Qualities and Flight Control System Evaluation of the B-1 Strategic Bomber and Journal of the Society of Flight Test Engineers, Flight Test NEWS and Miscellaneous Items, 1975-1981*

Folder

1. Flying Qualities and Flight Control System Evaluation of the B-1 Strategic Bomber; Authors: Jerry L. Ross, Captain, United States Air Force; Page G. McGirr, Captain, United States Air Force; Otto J. Waniczek, Jr., First Lieutenant, United States Air Force, May 1979
2. Membership Directory of the Society of Flight Test Engineers, 1978-1979
3. *Journal of the Society of Flight Test Engineers*, Volume 1, Number 1, January 1979
4. *Journal of the Society of Flight Test Engineers*, Volume 1, Number 2, May 1979
5. *Journal of the Society of Flight Test Engineers*, Volume 1, Number 3, September 1979
6. *Journal of the Society of Flight Test Engineers*, Volume 2, Number 1, January 1980
7. *Journal of the Society of Flight Test Engineers*, Volume 2, Number 3, September 1980
8. *Journal of the Society of Flight Test Engineers*, Volume 3, Number 1, January 1981
9. *Journal of the Society of Flight Test Engineers*, Volume 3, Number 2, May 1981
10. *Journal of the Society of Flight Test Engineers*, Volume 3, Number 3, September 1981
11. *Flight Test NEWS*, Volume 8, Number 5, November 1978
12. Miscellaneous Items in Edwards Air Force Base Box, 1975-1976 and undated

Item

1. Diagram, Antenna Installation CB1 Configuration, September 1975
2. "Cobra Ball I (ES7379) Tuft Study Test Conditions," October 13, 1976
3. Cardboard shuttle, 11 ¼" x 4 ½", n.d. (unmarked)
4. Script for skit, contains a poem about Ross, undated
5. Poem, original copy of poem about Ross, undated
6. Poster, "My Job," 11" x 16", undated

Box 27 *B-1 Related Photographs and Photograph Clippings, circa 1976-1978*

Folder

1. Photographs, B-1, planes in photographs are marked "1, 8, 9, 10 and 11," circa 1976-1978 (15, 10" x 8" and 2, 6 ½ " x 4 ½" black and white photographs)
2. Clippings, B-1 related images, Ross in one photograph, circa 1976-1978 (8 clippings)

Box 28 *B-1 Related Material, Reports and Manuals, 1977-1979*

Folder

1. Binder, "Alternate Flight Cards," 1978
2. "DR Material," ("AFFTC" Deficiency Reports), 1977 (includes Ross' notes)
3. "B-1 Flight Reports," Captain J.L. Ross, Flight Test Engineer, May - December, 1977 (folder 1)
4. "B-1 Flight Reports," Captain J.L. Ross, Flight Test Engineer, January - June, 1978 (folder 2)
5. "B-1 Flight Reports," Captain J.L. Ross, Flight Test Engineer, July 1978 - February, 1979 (folder 3)
6. "Flying Stuff," includes Ross' documents to establish a "Flight Test Engineer Aerospace Badge," 1978
7. Flight Manual, "B-1, S/N 74-1060," circa 1978-1979

Box 29 *B-1 Flight Manuals, circa 1977*

Folder

1. B-1 Flight Manual (AF74-0158A AND AF74-0159A), "A/C # 1 & 2," circa 1977 (folder 1)
2. B-1 Flight Manual (AF74-0158A AND AF74-0159A), "A/C # 1 & 2," circa 1977 (folder 2)
3. B-1 Flight Manual (AF74-0158A AND AF74-0159A), "A/C # 1 & 2," circa 1977 (folder 3)
4. B-1 Flight Manual (AF74-0160A), "A/C # 3," circa 1977 (folder 1)
5. B-1 Flight Manual (AF74-0160A), "A/C # 3," circa 1977 (folder 2)
6. B-1 Flight Manual (AF74-0160A), "A/C # 3," circa 1977 (folder 3)
7. B-1 Flight Manual (AF74-0160A), "A/C # 3," circa 1977 (folder 4)

Box 30 *B-1 Aircrew Ground Training; Flight Manual, Operational Supplement and "B-1 TOPS," (Temporary Operating Procedures) 1976-1979*

Folder

1. B-1 Aircrew Ground Training, Student Handout, Prepared by Development

- and Training, B-1 Division - Los Angeles, Rockwell International, March 1974 (Sections I - IV, folder 1)
2. B-1 Aircrew Ground Training, Student Handout, Prepared by Development and Training, B-1 Division - Los Angeles, Rockwell International, March 1974 (Sections V - IX, folder 2)
 3. B-1 Aircrew Ground Training, Student Handout, Prepared by Development and Training, B-1 Division - Los Angeles, Rockwell International and *Boeing* Abbreviations And Acronyms, March 1974 (Sections X - XII, folder 3)
 4. B-1 Flight Manual, Operational Supplement, 1976 (folder 1)
 5. B-1 Flight Manual, Operational Supplement, 1976 (folder 2)
 6. B-1 Flight Manual, Operational Supplement, 1976 (folder 3)
 7. "B-1 TOPS," (Temporary Operating Procedures) includes Rockwell International, "Internal Letters," 1976-1979

Sub-series 3. Early NASA, 1968-2003

(3.85 cubic feet)

Box 31 *Correspondence, Ross' Assignment to the Air Force Element, NASA; Course Materials - Introduction to Space Navigation, Orbital Mechanics and Rendezvous Techniques; Apollo 14 - 17 and Space Shuttle Publications, 1968-1978*

Folder

1. Correspondence, Ross' Assignment to the Air Force Element, NASA, December 18, 1978
2. United States, National Aeronautics and Space Administration, Office of Public Affairs. (1968). Apollo 8: man around the moon. Washington, D.C.: National Aeronautics and Space Administration, Office of Public Affairs.
3. Introduction to Space Navigation, Text 1, Programed Text, prepared under direction of Mission Simulation Branch, Flight Control Division, Manned Spacecraft Center, Houston, Texas, June 1968 (includes 2 sheets of Ross' notes)
4. Introduction to Space Navigation, Text 2, prepared by: AC Electronics Division, General Motors Corporation, in response to NASA Contract NAS 9-497, October 1968
5. Introduction to Space Navigation, Text 3, prepared by: AC Electronics Division, General Motors Corporation, in response to NASA Contract NAS 9-497, February 1969
6. Introduction to Space Navigation, Text 3, Sections 2 and 3, prepared by: AC Electronics Division, General Motors Corporation, in response to NASA Contract NAS 9-497, November 1969
7. Space Navigation and Orbital Mechanics Course, Volume 4, Space Navigation Methods, Programmed Instruction Materials, Delco Electronics Division, General Motors Corporation, March 1971
8. Introduction to Orbital Mechanics and Rendezvous Techniques, Text 1, prepared by: AC Electronics Division, General Motors Corporation, in

- response to NASA Contract NAS 9-497, November 1969
9. Introduction to Orbital Mechanics and Rendezvous Techniques, Text 2, prepared by: AC Electronics Division, General Motors Corporation, in response to NASA Contract NAS 9-497, November 1969
 10. Applied Orbital Mechanics, "Validation Copy," A Programmed Instructional Text, prepared by: AC Electronics Division, General Motors Corporation, in response to NASA Contract NAS 9-497, December 1969
 11. Froehlich, W. (1971). Apollo 14: Science at Fra Mauro. Washington, D.C.: Office of Public Affairs, National Aeronautics and Space Administration.
 12. United States, National Aeronautics and Space Administration. (1971). Apollo 15 at Hadley Base. Washington, D.C.: Office of Public Affairs, National Aeronautics and Space Administration.
 13. Simmons, Gene. (1972). On the moon with Apollo 16: A guidebook to the Descartes Region. Washington, D.C.: United States Government Printing Office.
 14. Anderton, D.A. (1973). Apollo 17 at Taurus- Littrow. Washington, D.C.: Office of Public Affairs, National Aeronautics and Space Administration.
 15. "Space Shuttle," National Aeronautics And Space Administration, Lyndon B. Johnson Space Center, Houston, Texas, February 1975

Box 32 *Space Shuttle Documents (STS-1); National Aeronautics and Space Administration, Jet Propulsion Laboratory/Rockwell International Publications and Images; National Aeronautics and Space Administration, Space Shuttle, Flight Training Instructions, 1977-1982*

Folder

1. National Historic Mechanical Engineering Landmark, Crawler Transporters of Launch Complex 39, Kennedy Space Center, The American Society of Mechanical Engineers, February 3, 1977
2. Packet of Information, National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston Texas, 1977

Item

1. NASA News, lists groups of Space Shuttle astronaut applicants reporting to Johnson Space Center, 3rd, 5th - 8th (Ross') group, August 25 - October 20, 1977
2. NASA Facts sheet, Skylab - 1973-1974
3. NASA Facts sheet, Mission Control Center, circa 1977
4. NASA Facts sheet, Lyndon B. Johnson Space Center, 1977
5. NASA Facts sheet, Earth Resources, circa 1977
6. Photographs of various astronauts, circa 1977 (12, black and white, 4 ½" x 5")
7. NASA images with facts on back, includes Space Shuttle, circa 1977 (16, 10" x 8")
3. National Aeronautics and Space Administration, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, 1979

Item

1. United States, National Aeronautics and Space Administration. (1979). Voyager encounters Jupiter. Pasadena, California: National Aeronautics and Space Administration, Jet Propulsion Laboratory, California Institute of Technology.
2. United States, National Aeronautics and Space Administration. (1979). Galileo to Jupiter: Probing the planet and mapping its moons. Pasadena, California: National Aeronautics and Space Administration, Jet Propulsion Laboratory, California Institute of Technology.
3. United States, National Aeronautics and Space Administration. (1980). To explore Venus: Venus orbiting imaging radar mission. Washington, D.C.: National Aeronautics and Space Administration.
4. Images taken by Voyager of Jupiter. Pasadena, California: National Aeronautics and Space Administration, Jet Propulsion Laboratory, California Institute of Technology. February 15 - July 13, 1979 (16 images published on NASA card stock)
4. Images; Gemini, Apollo and Space Shuttle, National Aeronautics and Space Administration, Washington, D.C.: United States Government Printing Office, 1979 (20 images published on NASA card stock)
5. Map, Facilities at John F. Kennedy Space Center, National Aeronautics And Space Administration and Cape Canaveral Air Force Station, May 1980
6. Folder, Rockwell International Space Systems Group, circa 1980

Item

1. Rockwell International, Space Division. (1970). Why space is important. Downey, California: Rockwell International.
2. Rockwell International, Space Division. (1980). Space Shuttle facts. Downey, California: Rockwell International, Space Systems Group, Office of Public Relations.
3. Brochure, Space Shuttle Program, discussion and tour for NASA astronaut candidates, September 24-25, 1980
4. Images, Space Shuttle, Rockwell International, Space Systems Group, circa 1977-1980 (10 images)
5. STS-1 adhesive patch, Columbia, Young and Crippen, 1981
7. National Aeronautics And Space Administration Fact Sheet, Launch Complex 39 Facilities, June 1980
8. National Aeronautics And Space Administration, Space Shuttle, Flight Training Instructions, Instrument Navigation, July 1980
9. National Aeronautics And Space Administration, Space Shuttle, Flight Training Instructions, Voice Communications, July 1980
10. National Aeronautics And Space Administration, Space Shuttle, Flight Training Instructions, Flight Information Publications (FLIP), August 1980
11. STS-1 Technical Crew Debriefing, April 1981
12. Dooling, Dave. (1982). Waiting for the repairman. *Space World*, 3-9, 33-37.
13. Diagram of Space Station, circa 1980s

Box 33 *NASA Publications, STS-3, STS-5, STS-7, STS-8, STS-11, Press Kits, Checklists and Reports, Folder, Indianapolis Children's Museum, "Wide World of Space," 1982-1984*

Folder

1. Morrison, D. (1982). *Voyages to Saturn*. Washington, D.C.: Scientific and Technical Information Branch, National Aeronautics and Space Administration
2. National Aeronautics and Space Administration. (1982). *America's Spaceport*. Washington, D.C.: National Aeronautics and Space Administration
3. Brochure, "the amazing space telescope," National Aeronautics and Space Administration, John F. Kennedy Space Center, circa 1982
4. *NASA Activities*, May 1982, Volume 13, Number 5. Washington, D.C.: National Aeronautics and Space Administration
5. STS-3 Flight Crew Report, October 1982
6. Press Kit, STS-5, Fifth Space Shuttle Mission, First Operational Flight, October 1982
7. STS-5 Flight Crew Report, March 1983
8. *Prospects and Perspectives for Soviet Manned Space Flight*, by James E. Oberg, American Institute of Aeronautics and Astronautics, Mini-Symposium, April 28, 1983
9. Press Kit, STS-7, Seventh Space Shuttle Mission, June 1983
10. Press Kit, STS-8 Eighth Space Shuttle Mission, August 1983
11. Press Kit, National Aeronautics and Space Administration, "Our First Quarter Century of Achievement...Just the Beginning," October 1983
12. Folder, Indianapolis Children's Museum, "Wide World of Space," October 1983 (includes correspondence and agenda in regards to Ross' appearance)
13. 41-B (STS-11) Flight Supplement, Flight Data File EVA Checklist, Mission Operations Directorate, Operations Division, Basic, December 2, 1983
14. STS-8 PDRS/PFTA Crew Report, December 6, 1983
15. 41-B (STS-11) Flight Data File Crew Activity Plan, Cycle 2 (Revision A) Trajectory, Mission Operations Directorate, Operations Division, Final, December 19, 1983
16. Flight Data File EVA Checklist, All Vehicle, Flight Supplement/Mission Operations Directorate, Operations Division, Basic, Revision C, January 5, 1984

Box 34 *41-B Flight Data File Rendezvous (Final) and Schedule Card, 41-C (STS-13) EVA Checklists and Flight Data File Rendezvous, Solar Maximum Mission (SMM), Final Report; STS-41-B (10th Space Shuttle Mission) Air/Ground Transcript, January 13 – April 5, 1984*

Folder

1. 41-B (10th Space Shuttle Mission) Flight Data File Rendezvous, Integrated

- Rendezvous Target (IRT), Mission Operations Directorate, Operations Division, Final, Revision A, January 13, 1984
- 2. Press Kit, 41-B (10th Space Shuttle Mission), February 1984
- 3. Flight 41-B (10th Space Shuttle Mission) Schedule Card and Sheet, Mission Planning and Analysis Division, Mission Support Directorate, February 1984
- 4. *NASA News*, 51-D (Ross a crew member), 61-D Crew Announcements, February 2, 1984 (2 copies)
- 5. STS-41-B (10th Space Shuttle Mission) Air/Ground Transcript, February 3, 1984
- 6. Flight Data File Rendezvous, Solar Maximum Mission (SMM), Mission Operations Directorate, Operations Division, 41-C (STS-13) Final, February 3, 1984
- 7. 41-C (STS-13) Flight Data File, Crew Activity Plan, Mission Operations Directorate, Operations Division, Final, February 29, 1984
- 8. Press Kit, Space Shuttle Mission 41-C (STS-13), March 1984
- 9. Flight Data File EVA Checklist, 41-C (STS-13) Flight Supplement/Mission Operations Directorate, Operations Division, March 16, 1984
- 10. *NASA News*, Flight Control of 41-C, Release No. 84-021, April 5, 1984

Box 35 *STS- 41-B, 41-C, 41-D Material and STS-9 Flight Crew Report, 1984*

Folder

- 1. Flight 41-C Schedule Card, National Aeronautics and Space Administration, Johnson Space Center, Mission Planning and Analysis Division, Mission Support Directorate, April 1984
- 2. STS-41-B Air/Ground Transcript, April 6, 1984
- 3. STS-41-C (STS-13) Air/Ground Transcript and Change of Shift Briefing, April 7, 1984
- 4. STS-41-C (10th) Air/Ground Transcript and Change of Shift Briefing, April 8, 1984
- 5. STS-41-C (10th) Air/Ground Transcript, Goddard Solar Max Report and Change of Shift Briefing, April 9, 1984
- 6. STS-41-C (10th) Air/Ground Transcript, April 10, 1984
- 7. STS-41-C, Air/Ground Transcript, April 11, 1984
- 8. STS-41-C, Air/Ground Transcript, April 12, 1984
- 9. *NASA Activities*, Volume 15, No. 5, May 1984
- 10. Press Kit, Space Shuttle Mission 41-D, June 1984
- 11. United States Government Memorandum, Lyndon B. Johnson Space Center, National Aeronautics and Space Administration; Subject: STS-9 Flight Crew Report, June 8, 1984
- 12. United States Government Memorandum, Lyndon B. Johnson Space Center, National Aeronautics and Space Administration; Subject: STS 41-D Flight Control Team Shift Schedule Update, June 19, 1984
- 13. STS 41-B Flight Crew Report, June 1984
- 14. STS-41-C, (Flight Crew Report, 1984

Box 36 *STS-8, 41-D, and 51-A; Certificate of Appreciation, Crown Point, Indiana; Various Publications, 1984-2003*

Folder

1. STS-8 Flight Crew Report, July 1984
2. Certificate of Appreciation and correspondence, participation in annual Crown Point, Indiana, Fourth of July parade, 1984 (4 copies)
3. STS 41-D Execute Package, Flight Day 5, Distribution 'C', Crew Activity Updates, September 1, 1984
4. STS 51-A, Flight Data File Crew Activity Plan, Mission Operations Directorate, Operations Division, September 20, 1984
5. STS 51-A Flight Supplement, Flight Data File EVA Checklist, Mission Operations Directorate, Operations Division, Final, October 17, 1984 (includes notes made by Ross)
6. Press Kit, Space Shuttle Mission 51-A, November 1984
7. STS 51-A Schedule, National Aeronautics and Space Administration, Johnson Space Center, Mission Planning and Analysis Division, Mission Support Directorate, November 1984
8. Beggs, J.M. (1984). Space Station: The next logical step. (This article appeared in the September, 1984 issue of Aerospace America and was reprinted with the kind permission of the American Institute of Aeronautics and Astronautics.)
9. "A Space Station For America," by John D. Hodge, Deputy Associate Administrator for NASA's Office of Space Station, circa 1985
10. Report of the Committee on Science and Technology, House of Representatives, Ninety-Ninth Congress, Second Session. (1986). Investigation of the Challenger Accident. Washington, D.C.: United States Government Printing Office.
11. United States, National Commission on Space. (1986). Pioneering the space frontier. New York, New York: Bantam Books.
12. Department of Defense (1987). Soviet military power. Washington, D.C.: Department of Defense.
13. Ryan, Michael, (2003). A Ride In Space. *People Weekly*, 19 (24), 82-84, 87-88. (Sally Ride on cover, cover torn off.)

Sub-series 4. Space Shuttle, 1984-2011

(5.25 cubic feet)

Box 37 *Space Shuttle Systems Handbooks and Manuals, and STS-37 Checklists, 1984-1993*

Item

1. Binder 1, 1984-1988 (includes Ross' notes)

Item

1. "Cargo Systems Manual: SATCOM KU, STS All," Mission Operations

- Directorate, Operations Division, Payload and Operations Support Branch, Basic, September 1985
2. "Cargo Systems Manual: Hughes 376, STS-All," Operations Division, Payload and Operations Support Branch, Final," October 15, 1984
 3. "STS Payload Assist Module – Delta Class (PAM-D) Systems Handbook," Payload and Operations Support Branch, Basic, PCN-1, June 13, 1984
 4. "PAM-D Systems Handbook Proprietary Appendix," Payload and Operations Support Branch, Basic, PCN-1, June 12, 1984
 5. "Some of the Things You May Want to Know and Probably Should Have Asked," by Edgar Turcotte, "X 3-3832," September 14, 1988
 2. Binder 2, "USAF Series T-38A and AT-38B Aircraft," Flight Manual, July 1, 1987 ("Change 8, March 15, 1996, "Reference Only" written on cover)
 3. STS-37 GRO Deploy Checklist, Mission Operations Directorate, Operations Division, Final, Rev A, March 11, 1991
 4. STS-37 Flight Supplement, Ascent Checklist, Mission Operations Directorate, Flight Design and Dynamics Division, Final, Rev B, January 27, 1991
 5. Binder 3, "Spacelab Systems Handbook," Mission Operations Directorate, Systems Division, "Rev D, DCN-3," February 15, 1991 and "Mission Operations Directorate Drafting Standards, Revision C, PCN-2," March, 1991
 6. Binder 4, "EVA Tools and Equipment Reference Book (Formerly EVA Catalog Tools and Equipment,)" November 1993

Box 38 *Operations Crew and "Group" Training Handbooks, 1994-2007*

Item

1. Binder 5, "Rendezvous/Proximity Operations Crew Training Handbook," Mission Operations Directorate, Space Flight Training Division, Computer and Navigation Training Branch, October 1994 (includes Ross' notes)
2. Binder 6, circa 1994-2007

Section

6. "U.S./IP Environ. Control Group,"
 7. "U.S./IP Command and Data Group"
 8. "U.S./IP C&T Group"
 9. "U.S./IP Motion Control Group"
 10. "U.S./IP S&M Group"
 3. Binder 7, "U.S./IP Robotics," circa 1995-2007
- Section
11. "U.S./IP Robotics"
 12. "U.S./IP EVA Group"

Box 39 *Systems Manuals, Columbia Accident Investigation Board Report, T-38 Flight Manual and NASA's Implementation Plan for Space Shuttle Return to Flight and Beyond, 2002-2004*

Item

1. Binder 8, "SSSH - Vol. II" - Space Shuttle Systems Handbook, circa 2002-2005
Section
 9. "GN&C"
 10. "Main Propulsion"
 11. "OMS/RCS Propulsion"
 12. "APU/Hydraulics Systems"
 13. "Landing Gear"
 14. "Mechanical Systems"
 15. "Docking System"
2. Binder 9, "SSSH - Vol. III," - Space Shuttle Systems Handbook, circa 2002-2005
 16. "Communications"
 17. "Instrumentation"
 18. "Escape/Crew Systems"
 19. "Structures"
 20. "Displays and Controls"
 21. "RMS/EVA"
3. Binder 10, Columbia Accident Investigation Board Report, Volume 1, August 2003
4. Binder 11, T-38 Flight Manual, Aircraft Operations Division, November 2003
5. Binder 12, "NASA's Implementation Plan for Space Shuttle Return to Flight and Beyond," Volume 1, Revision 2, April 26, 2004

Box 40 *Shuttle Crew Operations Manual, New Employee Orientation Book, Space Shuttle Systems Handbook and International Space Station Systems Handbook, 2004-2007*

Item

1. Binder 13, "Shuttle Crew Operations Manual, OI-30," October 15, 2004 ("Great Reference" on post-it note on cover)
2. Binder, 14, "NASA Engineering and Safety Center, Langley Research Center, New Employee Orientation Book," New Employee Orientation, February 1-3, 2005
3. Binder 15, "SSSH - Vol. 1," Space Shuttle Systems Handbook," Mission Operations Directorate Systems Division, Revision G, DCN-4, April 10, 2006
Section
 1. "Symbol Reference"
 2. "Electrical Power Distribution"
 3. "Electrical Power Generation"

4. "Lighting"
 5. "Sequential/C&W"
 6. "Life Support System"
 7. "Thermal"
 8. "Data Processing"
16. Binder 16, "International Space Station Systems Handbook (ISSSH)," Mission Operations Directorate Expedition Vehicle Division and EVA, Robotics, and Crew Systems Operations Division, Basic, Revision D, August 20, 2007
- Section
1. "Symbology and Nomenclature"
 2. "Caution and Warning"
 3. "Reserved"
 4. "U.S./IP Electrical Power Group"
 5. "U.S./IP Thermal Control Group"

Box 41 *Space Shuttle Missions Summary and STS-135, Astronaut Support Personnel Checklists, 2011*

Item

1. Binder 13, "Space Shuttle Missions Summary," September 2011 ("This is a great reference" on post-it on cover)
2. Binder 14, Checklist, "Astronaut Support Personnel Checklist, STS-135 Flight Supplement OV-104," Flight Crew Operations Directorate Vehicle Integration Test Office, Final, April 25, 2011 ("ASP Book #1, For Use During TCDT," noted on cover)
3. Binder 15, Checklist, "Astronaut Support Personnel Checklist, STS-135 Flight Supplement OV-104," Flight Crew Operations Directorate Vehicle Integration Test Office, Final, April 25, 2011 ("VITT Baseline, For Use During LCD" noted on cover)

Box 42 *Flight Training Manuals (loose items, not in binders), 1984-1988*

Folder

1. Orbiter Systems Training Manual (OMS 2102), NASA Lyndon B. Johnson Space Center, Flight Training Branch, March 1984
2. Reaction Control System Training Manual (RCS 2102), April 1987
3. Astronauts' Guide to Oceanographic Phenomena (JSC 22963), NASA Lyndon B. Johnson Space Center, Space Shuttle Earth Observations Office, August 1988
4. Oceanography from the Space Shuttle, A joint project of the University Corporation for Atmospheric Research and the Office of Naval Research, United States Navy, July 1989
5. Main Propulsion System Training Manual (MPS 2102), NASA Lyndon B.

- Johnson Space Center, December 1992
6. Earth Observations Training Manual, Photographic Techniques and General Earth Features (JSC-26689), June 1994
 7. Astronaut's Guide to Terrestrial Impact Craters, NASA Space Shuttle Earth Observation Project, March 1988

Box 43 *STS Flight Crew Reports (loose items, not in binders), 1984-1997*

Folder

1. STS-41-G Flight Crew Report, December 20, 1984
2. STS-41-D Flight Crew Report, January 8, 1985
3. STS-51-A Flight Crew Report, March 28, 1985
4. STS-61-B Post-Flight Mexican Public Relations Trip, September 7-14, 1986 (includes various memorabilia)
5. STS-28 Flight Crew Report, March 20, 1990
6. STS-34 Flight Crew Report, August 15, 1990
7. STS-36 Flight Crew Report, July 16, 1990
8. STS-41 Flight Crew Report, November 19, 1990
9. STS-35 Flight Crew Report, March 29, 1991
10. "TRW Forum Colloquia: An astronaut-eye-view of STS-37," June 4, 1991
11. STS-43 Flight Crew Report, October 8, 1991
12. STS-48 Flight Crew Report, January 13, 1992
13. STS-38, Flight Crew Report, January 29, 1992
14. STS-39, Flight Crew Report, January 27, 1992
15. STS-44, Flight Crew Report, July 14, 1992
16. STS-42, Flight Crew Report, July 21, 1992
17. STS-45, Flight Crew Report, September 28, 1993
18. STS-55, Crew Insignia information, inflight diet record, information kit, and German and United States flags, 1993
19. STS-55, various Space FAX Roundup newsletters about the mission and a "D-2-Mission Medea HPT" Team thank-you, April 22 – May 6, 1993
20. STS-58, Flight Crew Report, October 1993
21. "The FGB Core Module of the International Space Station Alpha: A historical overview of its lineage and organizational origins, Dennis Newkirk, Motorola Inc., and Asif A. Siddiqi, University of Massachusetts-Amherst, October 21, 1995
22. STS-82 Executive Package, Flight Day 07 and 08, 1997; Alpha Station Program Implementation Plan, September 1993, and certificate – Lyndon B. Johnson Space Center, Group Achievement Award, STS-82 EVA Mission Operations Team, 1997

Box 44 *STS-88, STS-132, and STS-135/OV-104 (loose items, not in binders), 1998-2011*

Folder

1. STS-88 Press Information Book (binder), November 20 – December 15, 1998
2. STS-88, press information, and document – “Launch of the International Space Station: Zarya and Unity,” circa 1998-1999
3. STS-88, launch invitations, itineraries, State of Indiana, Indiana General Assembly concurrent resolution honoring Hoosier astronaut Jerry L. Ross for his historic participation in the STS-88 space shuttle mission to begin the construction of the International Space Station, April 21, 1999
4. STS-132, Flight Crew Briefing, April 2010
5. STS-134, “KSC EOM Convoy Pre-Test Briefing,” circa 2010
6. STS-135/OV-104, Flight Crew Operations Briefing and information, June 22, 2011
7. Facts and Figures sheets, Space Shuttle Missions: STS-1 to STS-135, 1981-2011

Sub-series 5. Space Shuttle Columbia Accident Recovery Operation, 2001-2011

(1.2 cubic feet) – Plus OS Items, See Series 9

Box 45 *Columbia (STS-107) Recovery Operation Information and Commemorative Material, circa 2001-2003*

Folder

1. STS-107 crew photograph, mission patches (adhesive and cloth), commemorative pin, crew memorial service programs, and *Special Shuttle Program News* commemorative edition, 2003
2. STS-107 Kennedy Space Center (KSC) Medical Landing Package, February 1, 2003
3. “STS-107 Orbiter Lead Brain Book, OV-102 / Columbia,” circa 2002-2003 (binder 1 of 2)
4. “STS-107 Orbiter Lead Brain Book, OV-102 / Columbia,” circa 2002-2003 (binder 1 of 2)
5. Shuttle Recovery Brief, 2003
6. “Shuttle Recovery Azimuth Check,” FEMA-3171-3172-EM, 2003
7. “OVE Working Group Technical Interchange Team Status, John P. Mulholland,” Tuesday, March 11, 2003
8. “Columbia Shuttle Incident, East Texas Response,” Situation Reports and Response Incident Action Plans, March 6, 2003 – March 25, 2003
9. “Columbia Shuttle Incident, East Texas Response,” Situation Reports and Response Incident Action Plans, March 26, 2003 – October 3, 2003
10. “Columbia Shuttle Recovery, Hemphill Branch, Southwest Area Incident Management Team, Hemphill, Texas,” March 8-22, 2003
11. Correspondence (e-mails), in regards to Columbia hardware recovery

- efforts, March-April, 2003
12. Columbia recovery situation reports and action plans, circa February- June, 2003 (folder 1 of 2)
 13. Columbia recovery situation reports and action plans, circa February- June, 2003 (folder 2 of 2)
 14. Columbia Search & Recovery, A special pullout section of the Johnson Space Center *Roundup*, July 2003
 15. Columbia Accident Investigation Board, Report Volume 1, August 2003
 16. Return to Flight Task Group, Final Report, July 2005
 17. Columbia Crew Survival Investigation Report, NASA/SP-2008-565 (2 copies)
 18. Lessons of the Columbia Recovery Effort, Roger Mellott & Cheryl McPhillips, June 2003
 19. STS-107 "Memories," folder containing commemorative brochure and CD, September 2003
 20. Programs, Memorial Services; Laural B. Clark, Patricia Huffman Smith, STS-107, Jules F. "Buzz" Mier, Jr., "In remembrance... tree planting," 2003
 21. "10,000 Plus Ground Searchers, Air Teams Cover 1.7 Million Acres; More Than 42,000 Confirmed *Columbia* Debris Items Are Found," May 9, 2006 (includes a few other miscellaneous papers)
 22. "MIT Exit Strategy," David White, Chairman, Mishap Investigation Team, April 2, 2003
 23. Pamphlet, "*Columbia STS-107 Shuttle Recovery – Guidelines for Collection of Shuttle Material for Law Enforcement and Fire Departments*," April 2003; pamphlet, "*Columbia Reconstruction Hangar Walk Through*," July 2003; invitation to ceremony recognizing organizations that helped with recovery efforts, October 3, 2003; map, guide and miscellaneous sheets, 2003
 24. Booklet, "*Columbia's Resting Place: How deep East Texas responded to the space shuttle Columbia tragedy*," published by The (Nacogdoches) *Daily Sentinel* and *The Lufkin Daily News*, 2003
 25. Items from the Patricia Huffman Smith Museum ceremonies, 2010-2011

Box 46 *Columbia (STS-107) Recovery Operation Information – In Folder Labeled "Team E 5," 2003*

Folder

1. Correspondence, protocol information, field recovery status updates, lists of recovered items, situation reports, incident action plans, and additional documents, February 2 – February 17, 2003
2. Correspondence, protocol information, field recovery status updates, lists of recovered items, situation reports, incident action plans, and additional documents, February 18 – August 8, 2003

Sub-series 6. Post-NASA, 2013

(0.2 cubic feet)

Box 46a *Speech, given by Ross' at his book signing and exhibit celebration in the Purdue University Virginia Kelly Karnes Archives and Special Collections Research Center, February 7, 2013*

Folder

1. Speech, given by Ross' at his book signing and exhibit celebration in the Purdue University Virginia Kelly Karnes Archives and Special Collections Research Center, February 7, 2013

Series 4. Audio Visual, 1940s-2012

(6.5 cubic feet and 428 MB)

Sub-series 1. VHS Cassettes, 1986-2006

(2 cubic feet)

Box 47 *VHS Cassettes Featuring Space Shuttle Mission Highlights and Distinguished Engineering Alumni Awards, 1986-2004*

Item

1. 26 - STS Crew interview studio camera shoot, February 8, 2002
2. 27 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 1 of 4)
3. 28 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 2 of 4)
4. 29 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 3 of 4)
5. 30 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 4 of 4)
6. 32 - Highlights of 61-B from ABC News, undated
7. 33 - STS-88 Preflight Crew Conference, February 4, 1993
8. 34 - 61-B on Board, April 2, 1986
9. 35 - FLT-2, October 6, 1989
10. 36 - STS-27 Astronaut arrival at KSC, November 14, 1988
11. 37 - STS-88 Crew return ceremony, December 17, 1998
12. 38 - STS-55 Flight Day One Activities, April 26, 1993
13. 39 - STS-55 Flight Day Two Highlights, April 27, 1993
14. 40 - STS-55 Flight Day Three Highlights, April 27, 1993
15. 42 - STS-55 Flight Day Five Highlights, April 30, 1993
16. 43 - STS-55 Flight Day Six Activities, May 1, 1993
17. 44 - STS-55 Flight Day Seven Activities, May 2, 1993
18. 45 - STS-55 Flight Day Eight Highlights, May 5, 1993

19. 46 - STS-55 Flight Day Nine Highlights, May 4, 1993
20. 47 - STS-55 Flight Day Ten Highlights, May 5, 1993
21. 48 - STS-55 Crew stuff, undated
22. 53 - 61B on Board, April 2, 1986
23. 54 - Food Selection Habitation, February 9, 1993
24. 55 - STS 37 Earth Views, June 9, 1992
25. 56 - Fulwider Launch, 1991
26. 57 - STS-37 H 8MM Onboard, June 8, 1992
27. 58 - STS-37 Flight Day Highlights - Day 5, April 10, 1991
28. 59 - STS-37 Beach House and Launch Morning, undated
29. 60 - STS-74 Mission Highlights, April 2, 1996
30. 61 - No label, undated
31. 62 - STS-74 Flight Day Video File, Day 1, November 11, 1995
32. 63 - STS-74 Flight Day Video File, Day 2, November 12, 1995
33. 64 - STS-74 Flight Day Video File, Day 3, November 13, 1995
34. 65 - STS-74 Flight Day Video File, Day 4, November 14, 1995
35. 66 - STS-74 Flight Day Video File, Day 5, November 15, 1995
36. 67 - STS-74 Flight Day Video File, Day 6, November 16, 1995
37. 68 - STS-74 Flight Day Video File, Day 7, November 17, 1995
38. 69 - STS-74 Flight Day Video File, Day 8, November 18, 1995
39. 70 - STS-74 Jerry Ross Tape, December 26, 1995
40. 71 - STS-74 Jerry's Landing Tape, December 26, 1995
41. 72 - STS-74 Flight Video Files, Days 1-4, November 30, 1995
42. 73 - STS-74 Flight Video Files, Days 5-7, November 30, 1995
43. 74 - STS-74 Flight Video Files, Day 8, December 1, 1995
44. 75 - PFC for MS2, undated
45. 76 - Distinguished Engineering Alumni Awards, April 16, 2004

Box 48 VHS Cassettes - *RESTRICTED*, 1986-2006

Item

1. 77 - STS-55 Crew Interviews - Harris/Ross, January 28, 1993
2. 78 - STS-74 Mission Highlights, April 2, 1996
3. 79 - STS-55 Mission Update Flight Day 8, May 3, 1993
4. 80 - Indy 500 Parade, 1986
5. 81 - STS-74 Pre-flight Briefing and Docking Module Briefing, undated
6. 82 - STS-55, undated
7. 83 - STS-74, Post Flight Press Conference at Landing Site - Crew, November 20, 1995
8. 84 - *Our Place in Space*, Purdue Astronaut Alumni Reunion Weekend, October 1999
9. 85 - It Looks Good on Paper But, JSC-1003, November 17, 1986
10. 86 - Karen's Class Reunion, 1986
11. 87 - That NASA Show, "Tortillas in Space" and "Space Wear" April 5, 2000
12. 88 - 51 L Ceremony, undated

13. 89 - For All Mankind, undated
14. 90 - 16 Minutes from Home, March 1, 2003
15. 91 - Bailout in WETF, STS-55, February 9, 1993
16. 92 - NTST-Version, Visit with the Beckers in Germany, undated
17. 93 - HAS ACQ, Tony Moffatt Farewell, undated
18. 94 - Energia Story and Buran Post Flight, February 27, 1989
19. 95 - Nova, Soviet Space, undated
20. 96 - STS-27 Mission Highlights and A Lot More, December 20, 1988
21. 97 - History of Clan Ross, produced by Tain and District Museum, undated
22. 98 - History of the USAF, undated
23. 99 - STS-55 T-2 Through Abort – edited, May 13, 1993
24. 104 - STS-37 Launch, May 29, 1991
25. 105 - TSPC 50th Anniversary Celebration, revised, October 25, 1999
26. 106 - STS 110 Pre-Flight Party and More SC Stuff, undated
27. 110 - STS-88 Today Show and CBS Sunday Morning, “A Star is Born,” December 13, 1998
28. 116 - The Energia Story and Buran Post Flight, February 9, 1989
29. 117 - Soviet Television (English only), October 24 - November 14, 1988
30. 118 - Soviet Television, Buran Coverage II, November 15 - December 8, 1988
31. 119 - Purdue ‘All American Band’ at Minnesota Homecoming Game, pregame and halftime shows featuring Astronaut Jerry Ross, 2002
32. 120 - STS-27 Onboard, ID#06 S/N1791, Middeck, December 15, 1988
33. 121 - STS-27 Onboard, ID#04 S/N1796, “Football,” December 15, 1988
34. No Number - STS-27 Presentation Clip, Reference Master, February 16, 1989
35. No Number - Proton/Phobos Clips, PSC/Gould, July 1988
36. No Number - Jerry Ross, Lowell, 1999
37. No Number - MIR-23/NASA 4 Hydrolab Testing, May 9, 1997
38. No Number - On the Shoulders of Giants, Stennis Space Center Special Event, National Aeronautics and Space Administration, April 25, 2006 (4 disks, and one disk with slides presented by Apollo Propulsion Panelists)

Box 49 *VHS Cassettes – Miscellaneous Additions, 1986-1999*

Item

1. “Hands on Experience,” 5:41, November 24, 1986
2. “Ham Radio in Space,” NASA Johnson Space Center, 32:50, October 3, 1991
3. “Assembly in Space,” NASA George C. Marshall Space Flight Center Audio/Video Operations, December 12, 1992 (includes correspondence from Paul H. Schuerer, Director, Materials and Processes Laboratory, Chairperson, Society for the Advancement of Materials Processing Engineering (SAMPE), Space Hardware Manufacturing Committee)
4. “EVA Lessons Learned,” 21:37, NASA Johnson Space Center, August 14,

- 1995 (includes a note from Tara Patterson)
- 5. 1993 Purdue Newsreel, "Building for the Future," 22:30, produced by Purdue University Relations
- 6. Astronaut Jerry Ross at Priest River Elementary School! Priest River Idaho, 14:00, April 17, 1996
- 7. International Space Station Teleconference, "Some Assembly Required," 1:29:03, February 18, 1999
- 8. "Spacecraft Servicing at Space Station, SMM Capture and Release," undated

Sub-series 2. DVDs, 1986-2012

(1 cubic foot)

Box 50 *DVDs (converted from VHS Cassettes listed above), 1986-2012*

Box 1

Item

- 1. 26 - STS Crew interview studio camera shoot, February 8, 2002
- 2. 27 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 1 of 4)
- 3. 28 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 2 of 4)
- 4. 29 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 3 of 4)
- 5. 30 - STS-110 Mission highlights resources tapes, June 16, 2002 (tape 4 of 4)
- 6. 32 - Highlights of 61-B from ABC News, undated
- 7. 33 - STS-88 Preflight Crew Conference, February 4, 1993
- 8. 34 - 61-B on Board, April 2, 1986
- 9. 35 - FLT-2, October 6, 1989
- 10. 36 - STS-27 Astronaut arrival at KSC, November 14, 1988
- 11. 37 - STS-88 Crew return ceremony, December 17, 1998
- 12. 38 - STS-55 Flight Day One Activities, April 26, 1993
- 13. 39 - STS-55 Flight Day Two Highlights, April 27, 1993
- 14. 40 - STS-55 Flight Day Three Highlights, April 27, 1993
- 15. 42 - STS-55 Flight Day Five Highlights, April 30, 1993
- 16. 43 - STS-55 Flight Day Six Activities, May 1, 1993
- 17. 44 - STS-55 Flight Day Seven Activities, May 2, 1993
- 18. 45 - STS-55 Flight Day Eight Highlights, May 5, 1993
- 19. 46 - STS-55 Flight Day Nine Highlights, May 4, 1993
- 20. 47 - STS-55 Flight Day Ten Highlights, May 5, 1993
- 21. 48 - STS-55 Crew stuff, undated
- 22. 53 - 61B on Board, April 2, 1986
- 23. 54 - Food Selection Habitation, February 9, 1993
- 24. 55 - STS 37 Earth Views, June 9, 1992

25. 56 - Fulwider Launch, 1991
26. 57 - STS-37 H 8MM Onboard, June 8, 1992
27. 58 - STS-37 Flight Day Highlights - Day 5, April 10, 1991
28. 59 - STS-37 Beach House and Launch Morning, undated
29. 60 - STS-74 Mission Highlights, April 2, 1996
30. 61 - No label, undated
31. 62 - STS-74 Flight Day Video File, Day 1, November 11, 1995
32. 63 - STS-74 Flight Day Video File, Day 2, November 12, 1995
33. 64 - STS-74 Flight Day Video File, Day 3, November 13, 1995
34. 65 - STS-74 Flight Day Video File, Day 4, November 14, 1995
35. 66 - STS-74 Flight Day Video File, Day 5, November 15, 1995
36. 67 - STS-74 Flight Day Video File, Day 6, November 16, 1995
37. 68 - STS-74 Flight Day Video File, Day 7, November 17, 1995
38. 69 - STS-74 Flight Day Video File, Day 8, November 18, 1995
39. 70 - STS-74 Jerry Ross Tape, December 26, 1995
40. 71 - STS-74 Jerry's Landing Tape, December 26, 1995
41. 72 - STS-74 Flight Video Files, Days 1-4, November 30, 1995
42. 73 - STS-74 Flight Video Files, Days 5-7, November 30, 1995
43. 74 - STS-74 Flight Video Files, Day 8, December 1, 1995
44. 75 - PFC for MS2, undated
45. 76 - Distinguished Engineering Alumni Awards, April 16, 2004

The Following DVDs are RESTRICTED, due to donor request or copyright questions. Consult with an archivist concerning use.

Box 2

Item

46. 49 - DVD, Jerry Ross Scrapbook with Bonus Footage, undated
47. 77 - STS-55 Crew Interviews - Harris/Ross, January 28, 1993
48. 78 - STS-74 Mission Highlights, April 2, 1996
49. 79 - STS-55 Mission Update Flight Day 8, May 3, 1993
50. 80 - Indy 500 Parade, 1986
51. 81 - STS-74 Pre-flight Briefing and Docking Module Briefing, undated
52. 82 - STS-55, undated
53. 83 - STS-74, Post Flight Press Conference at Landing Site - Crew, November 20, 1995
54. 84 - *Our Place in Space*, Purdue Astronaut Alumni Reunion Weekend, October 1999
55. 85 - It Looks Good on Paper But, JSC-1003, November 17, 1986
56. 86 - Karen's Class Reunion, 1986
57. 87 - That NASA Show, "Tortillas in Space" and "Space Wear" April 5, 2000
58. 88 - 51 L Ceremony, undated
59. 89 - For All Mankind, undated
60. 90 - 16 Minutes from Home, March 1, 2003
61. 91 - Bailout in WETF, STS-55, February 9, 1993
62. 92 - NTST-Version, Visit with the Beckers in Germany, undated
63. 93 - HAS ACQ, Tony Moffatt Farewell, undated
64. 94 - Energia Story and Buran Post Flight, February 27, 1989

65. 95 - Nova, Soviet Space, undated
66. 96 - STS-27 Mission Highlights and A Lot More, December 20, 1988
67. 97 - History of Clan Ross, produced by Tain and District Museum, undated
68. 98 - History of the USAF, undated
69. 99 - STS-55 T-2 Through Abort – edited, May 13, 1993
70. 104 - STS-37 Launch, May 29, 1991
71. 105 - TSPC 50th Anniversary Celebration, revised, October 25, 1999
72. 106 - STS 110 Pre-Flight Party and More SC Stuff, undated
73. 110 - STS-88 Today Show and CBS Sunday Morning, “A Star is Born,” December 13, 1998
74. 116 - The Energia Story and Buran Post Flight, February 9, 1989
75. 117 - Soviet Television (English only), October 24 - November 14, 1988
76. 118 - Soviet Television, Buran Coverage II, November 15 - December 8, 1988
77. 119 - Purdue ‘All American Band’ at Minnesota Homecoming Game, pregame and halftime shows featuring Astronaut Jerry Ross, 2002
78. 120 - STS-27 Onboard, ID#06 S/N1791, Middeck, December 15, 1988
79. 121 - STS-27 Onboard, ID#04 S/N1796, “Football,” December 15, 1988
80. No Number - STS-27 Presentation Clip, Reference Master, February 16, 1989
81. No Number - Proton/Phobos Clips, PSC/Gould, July 1988
82. No Number - Jerry Ross, Lowell, 1999
83. No Number - MIR-23/NASA 4 Hydrolab Testing, May 9, 1997
84. No Number - On the Shoulders of Giants, Stennis Space Center Special Event, National Aeronautics and Space Administration, April 25, 2006 (4 disks, and one disk with slides presented by Apollo Propulsion Panelists)
Additions - Not Restricted
85. B-1 Flight Test Report, January 1979
86. Sled Track Tests, undated
87. Space Shuttle - The Orbiter, August 15, 2012
88. Space Shuttle - Ground Support, August 15, 2012
89. Space Shuttle - EVA, August 15, 2012
90. Space Shuttle - Propulsion, August 16, 2012
91. Space Shuttle - Communications, August 16, 2012
92. Space Shuttle - Mission and Payload, August 16, 2012
93. Space Shuttle - SpaceLab, August 16, 2012
94. “Jerry Ross’ Post-Mission Videos,” undated

Box 51 *DVDs, Columbia (STS-107) Recovery Efforts, circa 2003-2008*

Item

1. “Lufkin Search Maps,” 2003 (DVD 1 of 2)
2. “Lufkin Search Maps,” 2003 (DVD 2 of 2)
3. “Lufkin spread sheets,” circa 2003
4. “Air-Ops – vol -1, ah17-az76,” circa 2003

5. "Air-Ops – vol – 2, ba60-bx 137," circa 2003
6. "Ground-Ops – vol 1, ai18-az69, points of interest," circa 2003
7. "Ground-Ops – vol – 2, ba62-by 146," circa 2003
8. "Ground Search Evolution," 80 min/700 mb, circa 2003
9. "Columbia Accident Investigation Board, Report Volume 1," August 2003
10. "Donahue, Columbia Recovery Operation Talk," circa 2003
11. "NASA, STS-107, Space Shuttle Columbia, A Day of Remembrance," Friday, February 1, 2008
12. "Ode to Columbia, Music by Lisa Shannon; Lyrics by Capt. James Wilkins, USN," 5:14, undated

Sub-series 3. Film Reels, circa 1970s-1990s (1.5 cubic feet)

Box 52 *Film Reels, circa 1970s*

Item

1. "Run 4F-F2," 7" diameter reel, June 11, 1972
2. "Run 4F-63," 7" diameter reel, June 19, 1973
3. "Flight Evaluation," 5" diameter reel, November 16, 1976
4. "B-1 Flight Test Report January 1979"; 16 mm film color/silent (Rockwell International, B-1 Division, International Airport Los Angeles, California) 9 ½ inch diameter reel, 1979
5. "Capt. Ross Sled Track Tests" (Department of the Air Force, Air Force Flight Test Center, Edwards Air Force Base, California. 5" diameter reel, undated

Box 53 *Film Reels, circa 1980s-1991*

Item

1. "Astronaut training, Jerry Ross," 16 mm, 9 ¼" diameter reel, circa 1980s
2. "Astronaut training, Jerry Ross," 16 mm, 10 ½" diameter reel, circa 1980s
3. "Astronaut training (Bill Bowers) "A" Print & 36 37 CCT," 16 mm, 7" diameter reel, circa 1980s
4. "Z – G Activity, photographer, Stanley, type of film, VND 7239," April 19, 1982
5. "STA-37 camera onboard, file roll #F-116," 16 mm, 10 ½" diameter reel, April 11, 1991
6. "STS-37 camera onboard, Mags 103; Mag 104," 16 mm, 10 ½" diameter reel, April 11, 1991
7. "STS-37 camera onboard, File Roll #F-117," 16 mm, 10 ½" diameter reel, April 11, 1991
8. "STS-37 camera onboard, File Roll #F-115, footage 800'," 16 mm, 10 ½" diameter reel, April 11, 1991

9. "STS-37 camera onboard, Onboard Ftg. Mags 101 & 102, File Roll #F-112," 16 mm, 10 ½" diameter reel, April 11, 1991
10. "STS-37 Onboard, File Roll FF-114, footage 800'," 16 mm, 10 ½" diameter reel, April 11, 1991

Box 54 *Film Reels, circa 1990s*

Item

1. STS-27 Presentation Clip, 16 mm, 9 ¼" diameter reel, undated
2. STS-37 Crew Presentation Clip, 16 mm, 11" diameter reel, undated
3. STS-37 Crew Presentation Clip, 16 mm, (Rev. 2 - final) 11" diameter reel, undated
4. STS-37, Post Flight Press Conference, 16 mm, (Silent Version), 11" diameter reel, undated
5. STS-55, Post Flight Press Conference, 16 mm (Sound Version), 11" diameter reel, undated
6. STS-55, Post Flight Press Conference, 16 mm (Silent Version), 11" diameter reel, undated
7. 61-B, Presentation Clip, Ross/Spring, (Jerry & Woody Show), 16 mm, 11" diameter reel, undated
8. 61-B, Presentation Clip, Ross/Spring, 16 mm, 11" diameter reel, undated
9. 61-B, Post Flight Press Conference (Silent Version), 16 mm, 11" diameter reel, undated
10. CL-1423 – STS-74 Post Flight Presentation, 16 mm, 11" diameter reel, December 1995
11. CL-1466 - STS-88 Post Flight Press Conference, 12 ½" diameter film reel, undated
12. Astronaut Training, 16 mm, 11" diameter reel, undated

Sub-series 4. Photographs, circa 1940s-2000s
(0.5 cubic feet and 428 MB)

Box 55 *Photographs and Negatives, circa 1940s-2000s*

Folder

1. Digital Photographs (78 print copies) - The bulk of the photographs was donated as digital files (428 MB) and have been stored accordingly for preservation purposes. (photographs from Ross' Youth - Space Shuttle Career, some photographs have multiple copies) circa 1940s-2000s
2. Photographs, color, 3 ½" x 4 ½" of Ross (8, same image, some have water damage), circa 1980s
3. Photographs of Ross in astronaut flight suit, 1 color, 7 ½" x 10 ½", 1 black and white, 8 ¼" x 11 ¼", circa 1980s
4. Photographs, color, 3, 8" x 10" of Ronald Regan's inauguration and Reagan

- at his desk, 1981
- 5. Columbia Returns from Final Test Flight (STS-4), signed by Ross with note, "Taken by Me, 4 July 1982"
- 6. Negatives, 6 of Ross at work at his desk and 3 during anti-gravity training, circa 1980s-2000s
- 7. Photographs and Correspondence, 1980s (includes Purdue astronaut reunion and 1986 Old Masters photographs and shuttle launch)
- 8. Photographs and Correspondence, 1999-2000s (some undated)

Series 5. Scrapbooks, 1985-1998

(2 cubic feet)

Box 56 *Space Shuttle Mission Scrapbooks, Crown Point, IN Scrapbook, and 4-H Scrapbook, 1985-1995*

Scrapbook

1. Scrapbook presented to Ross and engraved on front, "An Astronaut's Amarillo Odyssey, Major Jerry L. Ross, USAF," and noted on the first page, "A celebration of astronaut Jerry L. Ross' partnership with the Amarillo Independent School District, the High Plains Aviation Association, and the City of Amarillo, Texas," includes, photographs, memorabilia, clippings, thank-you notes from students, correspondence, and STS 61-B related clippings and memorabilia, 1985-1987
2. Scrapbook, contains black and white photographs per Ross, "from hometown visit to Crown Point, IN and its schools after my first flight," circa 1985
3. Scrapbook, STS-27, includes information kit, Indiana House Resolution to rename section of I-65 between Lafayette, IN and IL, "The Jerry Ross Memorial Highway," clippings, tickets, program and photographs from Purdue University Engineering Astronaut Alumni Convocation, September 29, 1989, and last item in the scrapbook is an invitation to the STS-37 launch and landing, 1988-1989
4. Scrapbook, engraved on the front, "Presented to Lt. Colonel Jerry L. Ross, USAF by the Purdue 4-H Department, 1990," and is entitled, "4-H Roots in Space." It contains the signed document, Purdue Cooperative Extension diamond anniversary tree, commemorating 75 years of educational service to the people of Indiana," clippings, correspondence, and color photographs related to Ross' involvement in this event and the planting of the trees from the seeds the flew on STS-27 1990
5. Scrapbook, STS-37, includes mission patches, buttons, booklet and passes for family guests, signed crew photograph and photograph (b&w) of Ross in flight suit, clippings, NASA information kit, and Gamma Ray Observatory poster, 1991
6. Scrapbook, STS-74, includes crew photograph, mission patches, launch and landing invitation, numerous clippings, and a listing of schools

involved, including Jerry Ross Elementary School in Crown Point, Indiana, 1991

Box 57 *Space Shuttle Mission Scrapbooks and Tri-Central Elementary Commemorative Scrapbook, 1991-1998*

Scrapbook

7. Scrapbook, STS-37, includes mission patches, buttons, booklet and passes for family guests, signed crew photograph and photograph (b&w) of Ross in flight suit, clippings, NASA information kit, and Gamma Ray Observatory poster, 1991
8. Scrapbook, STS-74, includes crew photograph, mission patches, launch and landing invitation, numerous clippings, and a listing of schools involved, including Jerry Ross Elementary School in Crown Point, Indiana, 1995
9. Scrapbook, compiled by Tri-Central Elementary School, Sharpsville, IN, to commemorate Ross' visit to the school, also includes the 1996-1997 yearbook which contains pictures of Ross, 1996-1998

Series 6. NASA Publications, Books, and Journals, 1968-2012
(5.2 cubic feet)

Box 58 *NASA Publications and Books, 1968-1986*

Item

1. "Apollo: Man around the moon," Washington, DC: NASA Office of Public Affairs, 1968
2. Apollo 16 Mission Report, NASA Manned Spacecraft Center, Houston, Texas, August 1972
3. Skylab – 1973-1974, *NASA Facts*. Houston, Texas: Lyndon B. Johnson Space Center, Public Affairs Office.
4. Brooks, C.G.; Grimwood, J.M.; Swenson, L.S. Jr. (1979). *Chariots for Apollo: A history of manned lunar spacecraft*. Washington, D.C.: National Aeronautics and Space Administration, Scientific and Technical Information Branch.
5. *NASA Activities*, Vol. 13, No. 7, July 1982
6. *Space News Roundup*, "An OFT breakdown: A summation of the Space Shuttle's Orbital Flight Test program," September 17, 1982
7. Astronauts Fact Sheet, NASA Johnson Space Center, April 1983
8. Kennedy Space Center Tours, 1983 (2 copies)
9. "Space Shuttle Payload Launch Schedule and Astronaut Flight Assignments, August 13, 1984
10. Space Transportation System, "Space Shuttle Payload Flight Assignments,"

- Washington, DC: NASA Customer Services Division, June 1985
11. Space Transportation System, "Space Shuttle Payload Flight Assignments," Washington, DC: NASA Customer Services Division, November 1985
 12. *NASA Information Summaries*, "Space Shuttle Mission Summary 1985-1986: STS Missions 51-C thru 51-L"

Box 59 *NASA Publications and Books, 1986-1989*

Item

1. NASA Technical Library Branch. (1986). *Space Station Systems: A bibliography with indexes*. Washington, DC: NASA Scientific and Technical Information Branch.
2. Report to the Presidential Commission on the Space Shuttle Challenger Accident, June 6, 1986 (2 copies)
3. NASA Report to the President, Actions to Implement the Recommendations of the Presidential Commission on the Space Shuttle Challenger Accident, July 14, 1986
4. NASA Information Summaries, "The Early Years: Mercury to Apollo-Soyuz, May 1987
5. Program, NASA Honor Awards Ceremony, Washington, DC, 1987/1988
6. NASA Information Summaries, Astronaut Fact Book, March 1988 (2 copies)
7. Program, NASA Honor Awards Ceremony, Lyndon B. Johnson Space Center, Houston, Texas, April 13, 1988
8. NASA, *America's Return to Space Flight: STS-26 Press Kit*, September 1988
9. Space Shuttle Redesigned High Performance Solid Rocket Motor, © Morton Thiokol, Inc., 1988
10. *The Dream is Alive: Three-year report*, 1988 (publication about the documentary film)
11. Poster, Space Explorers, NASA, © Smithsonian Institution, 1988
12. "Get Away Special...the first ten years," Goddard Space Flight Center, Special Payloads Division, The NASA GAS Team, 1989
13. "The First Lunar Landing: As told by the astronauts," 20th Anniversary, NASA, 1989
14. NASA Kennedy Space Center Maps, circa 1989
15. "America's Spaceport," John F. Kennedy Space Center, NASA, circa 1989

Box 60 *NASA Publications and Books, 1991-1997*

1. NACA 1915 – NASA 1990, "NASA Past," NASA Lyndon B. Johnson Space Center, January 14, 1991
2. Space Transportation System, "Space Shuttle Payload Flight Assignments," Washington, DC: NASA Customer Services Division, January 1992

3. Sullivan, K.D. (circa 1991). *The ultimate filed trip: An astronaut's view of earth*. Houston, Texas: Lyndon B. Johnson Space Center.
4. NASA (1992). *Information Summaries: Space Shuttle Mission Summary: The first decade: 1981-1990*. NASA Kennedy Space Center.
5. *America's Spaceport: John F. Kennedy Space Center*, 1992
6. *MIR '92* (in Russian)
7. STS Mission Profiles, Pre-flight Guide: STS-51; Post-flight Report: STS-55, Freedom Update, July 1993
8. Apollo at 25: Special tribute to America's moonwalkers, published by *Final Frontier Magazine*, 1993
9. Granath, R. (ed.) (1994). *America in space: A history of accomplishment*. Titusville, Florida: Lockheed Space Operations Company.
10. Payload Flight Assignments NASA Mixed Fleet, April 1994
11. Sahm, P.R.; Keller, M.H.; Schiewe, B. (eds.). (1995). *Proceedings of the Norderney symposium on scientific results of the German Spacelab Mission D-2, March 14-16, 1994, Norderney, Germany*. Köln, Germany: Wissenschaftliche Projektführung D-2
12. Paton, B.E.; Lapchinskii, V.F. (1997). *Welding in space and related technologies*. Cambridge: Cambridge International Science.

Box 61 *NASA Publications and Books, 1997-2000*

1. Lockheed Martin Missiles and Space Company. (1997). *Hubble Space Telescope 2nd servicing mission: media reference guide*. Sunnyvale, CA: Published by Lockheed Martin Missiles & Space for NASA.
2. Mars Pathfinder Lithograph Set, Educational Product, Grades K-Postdoctoral, NASA, circa 1997
3. Sawin, C.F.; Taylor, G.R. (eds.). (1999). *Extended duration orbiter medical project: Final report 1989-1995*. Houston, Texas: NASA Lyndon B. Johnson Space Center.
4. International Space Program, Multi-Increment Manifest Document, Revision F, June 2000 Draft
5. "Expedition One Crew Brings the Station to Life," October 25, 2000 (press kit document)

Box 62 *NASA Publications and Books, 2000-2003*

1. Larson, W.J.; Pranke, L.K. (eds.). (2000). *Human spaceflight: Mission analysis and design*. New York: McGraw-Hill.
2. Lulla, K.P.; Dessinov, L.V. (2000). *Dynamic earth environments: Remote sensing observations from Shuttle-Mir missions*. New York: John Wiley & Sons, Inc.
3. Paton, B.E. (ed.). (2000). *Space: Technologies, materials, structures: Collection of scientific papers*. Kiev: E.O. Paton Electric Welding Institute of

- NAS of Ukraine. (inscribed and signed by editor)
4. Crew Assignment Process, Flight Crew Operations Directorate Astronaut Office, October 2001
 5. NASA (2001). *America's Workhorse in Space: The first 100 missions of the Space Shuttle 1981-2000*. Washington, DC: NASA Space Flight Awareness Program.
 6. "Rare! List of Space Shuttle Missions Canceled And/Or Remanifested As A Result Of The Challenger Accident," written and edited by Cliff Lethbridge, December 4, 2003
 7. Program, 18th Planetary Congress Association of Space Explorers Tokyo 2003, "Learning from Space, Enriching World Culture"
 8. Space Foundation. (2000s). *America's vision: The case for space exploration: Failure is not an option*. Washington, DC: Space Foundation

Box 63 *NASA Publications and Books, 2004-2011 (some undated)*

1. NASA Engineering and Safety Center, Annual Report, 2004-2005
2. NASA *Spinoff*, 2005
3. NASA Historic Properties, August 2005
4. NASA, NESC Face-to-Face Conference, Sunnyvale, California, January 30 – February 1, 2007
5. NASA: 50 years of exploration and discovery, 2008
6. Association of Space Explorers. (2008). *Asteroid threats: A call for global response*. Houston, Texas: Association of Space Explorers.
7. Program, Dedication Ceremony, Christopher C. Kraft Jr. Mission Control Center, April 14, 2011
8. Posters, NASA Resources for Educators; "Build it with Space Walks," "30 Years of Excellence: Space Flight Awareness," "Engineering Research and Technology," circa 2000
9. NASA Biographical Sheets (109) on all of the current astronauts, circa 2000
10. The Lyndon B. Johnson Space Center: Gateway to the next frontier, undated
11. Brochure, "You Are Here," Florida and NASA/Kennedy Space Center. Titusville, Florida: United Space Alliance, undated
12. Astronaut biographies (lists career astronauts, active astronauts, unflown astronauts in advanced training, management astronauts, and international astronauts, Jerry Wright, biography page curator, NASA Lyndon B. Johnson Space Center, Astronaut Office, Flight Crew Operations Directorate, undated

Box 64 *Journals – Space Related, 1961-1962*

Item

1. *Space World: The Magazine of Space News*, "Next Step: Manned Orbital Flight," September 1961
2. *Newsweek*, "Ordeal of a Spaceman – National Affairs," February 5, 1962

3. *Newsweek*, front cover & article, "Russia's Men in Space," August 27, 1962
4. *Newsweek*, John Glenn on cover, March 5, 1962
5. *Newsweek*, Special Issue, "The Space Age," October 8, 1962

Box 65 *Journals - Aviation Week & Space Technology, 1973-1988*

Item

1. *Aviation Week & Space Technology*, August 6, 1973; April 7, 1975; April 6, 1981; April 20, 1981; May 4, 1981; November 23, 1981
2. *Aviation Week & Space Technology*, April 5, 1982; August 16, 1982; October 11, 1982; December 20, 1982; January 23, 1984; February 20, 1984; February 27, 1984; April 23, 1984; November 26, 1984
3. *Aviation Week & Space Technology*, February 25, 1985; April 1, 1985; April 22, 1985; December 16, 1985; February 24, 1986; April 28, 1986; May 5, 1986; October 13, 1986
4. *Aviation Week & Space Technology*, June 8, 1987; July 27, 1987; October 12, 1987; January 4, 1988; September 26, 1988; October 3, 1988; November 7, 1988

Box 66 *Journals, 1991-2012*

Item

1. *Aviation Week & Space Technology*, May 6, 1991; December 30, 1991; May 24, 1993; August 23, 1993; December 13/20, 1993; April 8, 1996; December 8, 1997; March 23, 1998; December 14, 1998; January 4, 1999
2. *Aviation Week & Space Technology*, January 8, 2001; February 10, 2003; February 17, 2003; March 3, 2003; March 10, 2003; March 17, 2003; March 24, 2003; March 31, 2003; April 21, 2003; September 1, 2003; March 19/26, 2007; December 6, 2010; July 18/25, 2011
3. *Air & Space Smithsonian*, Collector's edition, Space Shuttle 1981-2011, Spring 2011
4. *Aloft*, Volume 34, Number 6, November/December 2012
5. *Amateur Television Quarterly*, April 1991 (photograph of STS-37 crew on cover)
6. Boeing Aerospace Operation, Inc. *News*, Volume 1, Number 7, October 1991
7. *Challenger Log*, The newsletter of Challenger Center, Volume 12, Number 3, Fall 2000 (article featuring Ross on page 7)
8. *Clan Ross News*, Clan Ross Association of the United States, Inc., Spring and Summer 1991, Summer 1999, Fall 2012
9. *Compressed Air*, Ingersoll-Rand's magazine of applied technology and industrial management, October-November and December 1998 (includes articles about Ross' work)
10. *Countdown*, April 1991; May 1991; June 1991; January 1992; February

11. 1992; December 1993 (includes articles about STS-37, STS-44 and STS-61) *Travelhost*, Dallas and Syracuse, August 2-Sept 5, 1992 (Ross on cover of both)
12. *Deutsche Welt – U.S.A.* August/September 1993 (photograph of Space Shuttle D-2 crew on cover)
13. *Echtzeit*, October 1991 (Ross on cover)

Box 67 Journals, 1961-2011

Item

1. *Geocarto International: A Multi-disciplinary Journal of Remote Sensing*, Numbers 1 and 3, 1989; Numbers 1-4, 1990
2. *Inside: Defense & Space Group*, News for the People of Boeing Defense & Space Group, October 1996 (Ross on cover)
3. Newsletter, *Lagniappe*, NASA John C. Stennis Space Center, correspondence, image and newsletter in regards to 1,000,000th second firing of the Space Shuttle main engine, January 21-28, 2004
4. *Life* magazine, February 1999 (Ross featured on pages 16-17)
5. *Microgravity: Experiment Facilities and Flight Opportunities for Microgravity Research & Applications*, November 1990
6. *Model Rocket News*, Fall 1990 (includes a note to Guy Gardner from Mark Rainey and short article about Ross on page 2)
7. *National Geographic*, February 2004 (includes article, "Trail of Tragedy: High tech maps aided shuttle Columbia recovery effort," initial "Geographica" pages)
8. *Popular Science*, The International Space Station Special Issue, May 1998 (Ross featured on page 2)
9. *Roundup*, NASA Lyndon B. Johnson Space Center, July 8, 1977 – October 28, 1977 (see folder for exact issues)
10. *Roundup*, NASA Lyndon B. Johnson Space Center, September 2005 and September 2011
11. *Space Center Roundup*, NASA Lyndon B. Johnson Space Center, November 6, 1998 (special issue on the International Space Station, & Tommy Holloway) and December 4, 1998
12. *Space News Roundup*, November 29, 1961 – September 8, 1989 (see folder for exact issues)
13. *Space News Roundup*, January 19, 1990 – August 7, 1998 (see folder for exact issues)
14. Air & Space/Smithsonian, *Space Explorers*, 1988 (poster that depicts the 204 individuals who have orbited Earth at least once by the end of 1987)
15. *Spaceflight: The International Magazine of Space and Astronautics*, May and June, 1991 (Ross on cover of June issue)
16. *Space Flight News*, February/March 1986 (Ross on cover)
17. *Space Informer: Zeitschrift fur Raumfahrtaktivitaten*, Heft Nr. 3/98, 3. Jhrg.
18. *Star Gazer*, Lockheed Space Operations Company, April 18, 1991 and May

- 2, 1991 (Ross on cover)
19. *The Standard*, published by Hamilton Standard, Volume 5, Number 3, April 1991 (note to Ross from Tom Sanzone attached to newsletter)
20. *Today*, United Technologies Hamilton Standard, Volume 42, No. 5, September 1986
21. *USA Update*, The Employee Information Source for Continuing Developments Regarding United Space Alliance, July 2005 (includes "25 Years of Shuttle" insert)
22. Program from 1986 Indianapolis "500" Festival, "Yesterday, Today & Tomorrow," (includes feature on Grand Marshal Ross)

Box 68 *Journals – Purdue Related, 1942-2008*

Item

1. *The Co-operative Alumnus*, Purdue University, August 31, 1942 (includes an article about "history of Purdue co-operative houses)
2. *Extrapolations*, Purdue University Schools of Engineering Magazine, Fall 1989 (includes article about astronaut alumni reunion)
3. *4-H Connection*, circa 1995 (contains article about "4-H Roots In Space")
4. *Focus*, Purdue University Consumer and Family Sciences, Winter 2001 (includes photograph of Karen Pearson Ross – taught F&N back-to-class session)
5. *IMPACT*, Purdue Mechanical Engineering, Summer 2012 (includes articles, "Purdue University's 'cradle of astronauts' now has 23 members" and "Fast Forward: Catching up with astronaut Scott Tingle")
6. *Leadership*, The Magazine of the Purdue President's Council, Winter 2008 (Neil Armstrong and Gene Cernan on cover) and Special Edition (dedicated to Neil Armstrong)
7. *Periscope*, Spring 1986 (Ross featured on page 19)
8. *The Purdue Alumnus*, January 1985 and July-August 1989 (issues devoted to space & Purdue astronauts); July/August 1999 (features an article about Amy Ross following in father's footsteps, pp. 30-33; January/February 2000 ("Campus Rendezvous: Purdue's astronauts reunite for a special celebration," pp. 14-21)
9. *Purdue Calumet*, Summer/Fall 2000 (2 copies, features article on Ross and "Challenger's Learning Center's new upscale home, pp. 15-16)
10. *Purdue Engineer*, October 1989 (features Engineering Astronaut Alumnus Convocation and to the moon and beyond stories)
11. *Purdue ME*, annual newsletter to alumni and friends of Mechanical Engineering, Winter/Spring 1990, 1992
12. National 4-H Council *Youth Voices & Action*, a newsletter for alumni and friends, Summer 2001 (Jerry and Karen Ross featured, p. 2, "4-H Led Them to Reach for the Stars")

Series 7. Correspondence and Clippings, 1971-2014
(4.25 cubic feet)

Box 69 *Correspondence and Clippings, 1971-1983*

Folder

1. Clippings (entire issues of *The Indianapolis Star*), August 1 and 8, 1971
2. Clippings, 1980
3. Correspondence, 1980-1981
4. Clippings, 1981
5. Clippings, 1982
6. Clippings, 1983
7. Correspondence, 1983-1984

Box 70 *Correspondence and Clippings, 1984-1987*

Folder

1. Clippings, January - June, 1984 (folder 1)
2. Clippings, July - December, 1984 (folder 2)
3. Clippings, 1985-1987
4. Clippings (includes 2 brochures; "Beyond the Blue...The Challenge of Space, The Contributions of Purdue Engineering Graduates," undated)

Box 71 *OS Correspondence and Clippings, 1981*

Folder

1. Clippings, *The Indianapolis Star: Star Magazine*, "Indiana's Astronauts: Shuttling Into Space," March 15, 1981 (3 copies of entire issue)
2. Clippings, *South Bend Tribune: Michiana*, "Indiana's astronauts," March 8, 1981 (entire issue)

Box 72 *Correspondence and Clippings – STS-61-B, STS-62-A, STS-27, STS-37, 1985-1994*

Folder

1. STS-61-B clippings, October – December, 1985 (some undated)
2. STS-62-A clippings, January – November, 1986
3. STS-27 clippings, 1985 (some undated) – October 31, 1988
4. STS-27 clippings, November 1988
5. STS-27 clippings and correspondence, December 1988 (includes a congratulatory mailgram to Ross from Crown Point High School)
6. STS-27 clippings, 1989
7. STS-37 clippings, April 5, 1989 – April 5, 1991

8. STS-37 clippings, April 6, 1991 – April 10, 1991
9. STS-37 clippings, April 11, 1991 – April 12, 1991
10. STS-37 clippings, May 1991 – December 1994 (some undated)

Box 73 *Correspondence and Clippings – STS-55, STS-88, 1992-circa 2004*

Folder

1. STS-55 clippings and correspondence, October 9, 1992 – March 29, 1993 (includes STS-55 invitation to launch and information for family guests)
2. STS-55 clippings and correspondence, April 13, 1993 – June 1993 (some undated, includes 7, 7" x 5 ½" black and white photographs)
3. STS-88, clippings and correspondence, circa 1996 – November 1998 (includes STS-88 related launch and landing information for family and guests, some undated articles)
4. STS-88, clippings and correspondence, December 1 – 9, 1998 (launch was December 4, some clippings are undated)
5. STS-88, clippings and correspondence, December 10 – 18, 1998 (mission December 4 -16)
6. Post STS-88 Mission, January 1999 - December 1999 (some undated)
7. Clippings about Ross, January 23, 1994 – circa 2004

Box 74 *Correspondence and Clippings (These were grouped together upon arrival, so left as such) – circa 1976-2013*

Folder

1. Correspondence, Clippings and Miscellaneous items, circa 1976 - 1986
2. Correspondence, Clippings and Miscellaneous items, January 1987 – December 1989 (some undated)
3. Correspondence, Clippings and Miscellaneous items, January 22, 1990 – May 19, 1995
4. Correspondence, Clippings and Miscellaneous items, Winter 1996 – 1999 (includes Valentine's from Ross' childhood teacher, some articles undated and not complete)
5. Correspondence and Clippings, April 29, 2000 – October 11, 2013

Box 75 *Clippings, Challenger and Columbia Accidents, 1986-2003*

Folder

1. Clippings, Challenger Accident, January 1986 – February 1987 (includes programs from memorial services)
2. Clippings, Columbia Accident, February 3, 2003 – April 2, 2003 (one article features Ross and his Columbia recovery efforts, some articles undated)

Box 76 *Correspondence and Clippings, (These were grouped together upon arrival, so left as such) 1980s-2000s*

Folder

1. Clippings, 1984-1996
2. Clippings, 1997-1999
3. Clippings, 2000-2014 (some undated)
4. Correspondence, 1980s
5. Correspondence, 1990s
6. Correspondence, 2000s (some undated)

Box 77 *Miscellaneous Ephemera (These were grouped together upon arrival, so left as such), circa 1980s-2014*

Folder

1. Miscellaneous Ephemera, 1980s
2. Miscellaneous Ephemera, 1990s
3. Miscellaneous Ephemera, 2000-2005 (folder 1 of 2)
4. Miscellaneous Ephemera, 2006-2014 (folder 2 of 2, some undated)

Box 78 *Correspondence, Clippings, Photographs and Miscellaneous Ephemera – Purdue Related (These were grouped together upon arrival, so left as such) – September 1985-2011*

Folder

1. Correspondence, Purdue Related, 1980s (some undated)
2. Correspondence, Purdue Related, 1990s
3. Correspondence, Purdue Related, 2000s
4. Clippings, Purdue Related, July 1985-February 2013 (some undated)
5. Miscellaneous Ephemera, Purdue Related, circa 1967-1987
6. Miscellaneous Ephemera, Purdue Related, circa 1990-2013 (some undated)

Box 79 OS *Newspapers – Front Pages and Entire Issues, 1965-1993*

Folder

1. *Newspapers - Front Pages and Issues, Miscellaneous Articles, July 10, 1965 – June 6, 1966*

Item

1. Article, "Get 1st Close Look at Mars Thursday After Mariner 4 Takes 21 Photographs, July 10, 1965 (publication information unavailable)
2. *Chicago Tribune*, "New Mars Photos Show Craters—First Division Troops Arrive in Viet Nam," July 30, 1965
3. *Chicago Tribune*, "Gemini Space Twins Await Blastoff for Eight-Day

4. Orbital Adventure," August 19, 1965
Chicago Tribune, "LBJ Off To Hawaii Today, First Pictures from Moon!" February 5, 1966
5. *Daytona Beach Evening News*, "Gemini Shot Delayed: Rescheduled For Friday Liftoff: Target In Orbit," June 1, 1966
6. *Chicago Tribune*, "144 Pictures Of Moon Sent By Surveyor: Scientists Exult; Top Russians," June 3, 1966
7. *The Post-Tribune*, "Splash! Twins on Target: Stafford, Cernan Cheered by Wasp," June 6, 1966

Folder

2.

Newspapers - Front Pages and Issues, Apollo 11, Features on Ross, and Other Miscellaneous Articles, January 29, 1967-February 8, 1990

Item

1. *The Hammond Times*, "Price Of a Man on The Moon," January 29, 1967
2. *The Post-Tribune*, "In The Beginning....Preview for Apollo 11," July 15, 1969
3. *The Post-Tribune*, "The World Beams as Giant Leap Tops Moon: 500 Million at Lunar Ringside," July 21, 1969
4. *The Times*, Home Newspaper of the Calumet Region, "Man Walks On The Moon," July 21, 1969
5. *The Times*, Home Newspaper of the Calumet Region, "On the Moon," July 30, 1969
6. *Gary Post-Tribune*, "The Moon Says 'Cheese,'" July 30, 1969
7. *The Times*, Focus, "Moon Men at Work," August 1, 1969
8. *The Times*, "Moonscape," August 3, 1969
9. *The Times*, front page photograph, caption, "From the camera of Apollo 12, this portrait of man's second invasion of the moon's ancient tranquility," November 30, 1969
10. *The Times*, Focus, "Moonscape: Astronaut Cameras Upstage Unlucky TV," includes various photographs, November 30, 1969
11. *The Times*, "Safe! Astros' Kin 'Anxious' On Return," April 17, 1970
12. *The Post-Tribune*, "Americans in Space: The First Decade, April 15, 1972 (2 copies)
13. *The Post-Tribune*, "His dream: To be an astronaut – Hub man reached for the stars – and almost made it!" January 19, 1978 (article about Ross' first attempt at becoming an astronaut)
14. Oversized folder, Space Shuttle and Apollo brochures and images, Space Division, Rockwell International, circa 1974-1975
15. *The Houston Post*, "Shuttle orbits after flawless launch," April 13, 1981
16. *The Indianapolis Star*, "Who's who and what's when in 500 parade," May 24, 1986 (Ross was grand marshal)
17. *Houston Chronicle*, "'The Eagle has landed' 20 years after Apollo 11," July 16, 1989

18. *The Indianapolis News*, "Purdue pioneers the final frontier," September 14, 1989
19. *The Indianapolis News*, Living Section, "Flying High: Space still awes Hoosier," September 14, 1989 (feature on Ross)
20. *Times*, "Astronauts to see how the other side flies," February 8, 1990

Folder

3. *Newspapers - Front Pages and Issues, Challenger Accident, 1986*

Item

1. *Houston Chronicle*, "All America mourns: Nation's proud space program suffers most shattering blow," January 29, 1986
2. *Houston Chronicle*, Shuttle Tragedy – A Special Report, January 29, 1986
3. *Houston Chronicle*, "In Remembrance," February 2, 1986
4. *The Houston Post*, "Disaster 10 Miles High," January 29, 1986
5. *The Times*, Home newspaper of the Calumet Region, "Search continues," January 29, 1986
6. *The Times*, Home newspaper of the Calumet Region, 'We will never forget,' January 31, 1986
7. *Houston Chronicle*, "Challenger's nose section recovered (photo): Film reveals change in flame from rocket," February 2, 1986
8. *USA Today*, "Shuttles on hold at least 1 yr.," March 4, 1986
9. *The Houston Post*, "NASA officials say picture sequence 'clear and interesting,' undated

Folder

4. *STS-27, January 10, 1988 – September 30, 1989*

Item

1. *The Times*, Main Street – A Sunday feature, "Space: The quest continues," January 10, 1988 (feature story on Ross)
2. *Florida Today*, "Atlantis' Top-Secret mission," October 9, 1988
3. *Post-Tribune*, Nation/World, "Astronauts arrive for shuttle tests," November 13, 1988
4. *Houston Chronicle*, "Atlantis crew at Cape Canaveral for training," November 13, 1988
5. *The Times*, Serving Northwest Indiana, "Real blast: Local astronaut won't be lonely at the Cape," November 14, 1988
6. *Houston Chronicle*, "Air of secrecy surrounds space shuttle Atlantis," November 27, 1988
7. *Florida Today*, "Atlantis crew eager to fly," November 29, 1988
8. *The Orlando Sentinel*, front page photograph with caption, "Spacemen arrive," November 29, 1988
9. *Post-Tribune*, "Countdown starts for space shuttle mission," November 29, 1988
10. *Florida Today*, "Atlantis launch a go – for now," November 30, 1988
11. *Florida Today*, "Atlantis 'go' for today: Shuttle fueling begins; it's now up to the weather," December 1, 1988

12. *Florida Today*, "Atlantis gets 2nd chance today," December 2, 1988
13. *The Houston Post*, "It's two in a row for space shuttle," December 3, 1988
14. *Florida Today*, "Atlantis a treasure: Spy in the sky rockets off Cape on a secret mission," December 3, 1988
15. *The Times*, Serving Northwest Indiana, "Jerry Ross delights audience," February 20, 1989
16. *Journal and Courier*, Local & States, "Astronauts honored for stellar work: Purdue alumni return to campus for convocation," September 30, 1989
17. *Post-Tribune*, "Alumni astronauts honored at Purdue say anyone can do it," September 30, 1989

Folder

5. *STS-37, 1991*

Item

1. *Houston Chronicle*, "Atlantis mission could define what started with a 'big bang'," March 31, 1991
2. *Florida Today*, "Atlantis crew arrives at KSC," April 3, 1991
3. *Florida Today*, "Atlantis poised for launch," April 5, 1991
4. *Florida Today*, "Big crowd sees a beauty: Atlantis 'off to a great mission'," April 6, 1991
5. *Houston Chronicle*, "Emergency spacewalk a success: Astronauts free antenna for observatory launch," April 8, 1991

Folder

6. *STS-55, 1993*

Item

1. *The Times*, Crown Point, "Moving out: Ross' shuttle flights still excite younger sister: Crown Point woman to watch Columbia lift-off Saturday morning," April 23, 1993
2. *Florida Today*, "Columbia heading for home today," May 6, 1993 (STS-55)
3. *Lake County Star*, "Ross' mission 'nets' 90 experiments," May 6, 1993

Box 80 OS *Newspapers – Front Pages and Entire Issues, and Two Oversized Posters, 1999-2013*

Folder

1. *STS-88, April 25, 1998 – February 4, 1999*

Item

1. *Houston Chronicle*, This Weekend Section, "Before they go up: Massive pool offers preview to walk in space," April 25, 1998
2. *A Houston Chronicle* Special Section, "A hero John Glenn returns to space," October 25, 1998
3. *Houston Chronicle*, "The Next Outpost," November 15, 1998

4. *Houston Chronicle*, "Russian rocket set to launch space station's first component," November 18, 1998
5. *Houston Chronicle*, "A stellar international milestone: First section of new space station launched," November 21, 1998
6. *Houston Chronicle*, "Launch of Endeavor set for Dec. 3," November 25, 1998
7. *Houston Chronicle*, "Shuttle is set to carry space station addition: Mission will require complex construction," November 29, 1998
8. *Florida Today*, "Pair to put footholds forward: Endeavour's spacewalkers will lay foundations for station assembly," December 1, 1998
9. *The Orlando Sentinel*, "Shuttle launch," December 2, 1998
10. *Houston Chronicle*, "Weather forecast clear for launch: Crew of Endeavour to build onto station, December 3, 1998
11. *Houston Chronicle*, "Shuttle soars into space station era," December 5, 1998
12. *Houston Chronicle*, "Endeavour finishes its first task toward building of space station: Crew uses shuttle's robot arm to firmly attach 13-ton Unity module," December 6, 1998
13. *Houston Chronicle*, "Space station modules joined: Seven-hour endeavor marries U.S., Russian components," December 7, 1998
14. *Houston Chronicle*, "Endeavour crew takes time to rest, prepares for more construction," December 9, 1998
15. *The Idaho Spokesman Review*, "High wiring act," image of spacewalkers Newman and Ross, December 10, 1998
16. *Houston Chronicle*, "7-hour excursion puts space station's antennas into place," December 10, 1998
17. *Houston Chronicle*, "It's lights on for space station," December 11, 1998
18. *Houston Chronicle*, "Crew ends its work on station: Astronauts retreat after logging 28 hours," December 12, 1998
19. *The Spokesman-Review*, "Crew ends space station visit: Endeavour astronauts tidy up, leave items for its next visitors," December 12, 1998
20. *Houston Chronicle*, "Astronauts' final spacewalk paves way for mission in May: Shuttle Endeavour's 12-day station-assembly flight to end Tuesday," December 13, 1998
21. *Houston Chronicle*, "Crew set for trip home after their successful work on space station," December 14, 1998
22. *Houston Chronicle*, "Shuttle crew prepares for rare night landing: Astronaut wind up space station mission," December 15, 1998
23. *The Times*, "Endeavour Back On Earth: Mission complete," December 10, 1998
24. *Houston Chronicle*, "Space construction crew glides to Florida landing," December 16, 1998
25. *Journal and Courier*, "Fulfilling man's destiny: Space travel

realization of dream for Purdue grad," February 4, 1999 (front page article about Ross)

Folder

2.

Newspapers - Front Pages and Issues, Columbia Accident, 2003-2005

Item

1. *USA Update*, "We Remember: Crew STS-107 & Space Shuttle Columbia – January 16, 2003 – February 1, 2003," Special Edition, February 2003
2. *NASA Space Center Roundup*, "Remember...STS-107: Rick, Dave, Laurel, KC, Mike, Willie, Ilan: Space Shuttle Columbia, February 2003
3. *The Arizona Republic*, "Shuttle Falls To Earth; NASA Hunts For Clues," February 2, 2003
4. *Houston Chronicle*, "We mourn again," Special Report: What Happened, February 2, 2003
5. *The Arizona Republic*, "The Columbia Tragedy: Probe Targets Heat Buildup," February 3, 2003
6. *Daily News-Sun*, "Challenger Center braces for visitors: Staff receives grief-management training," February 3, 2003
7. *The Arizona Republic*, "The Columbia Tragedy: Hope shines in astronaut farewell," February 5, 2003
8. *The Arizona Republic*, "'7 sets of remains' of astronauts identified," February 6, 2003
9. *The Arizona Republic*, "Fallen astronauts memorialized," February 7, 2003 (includes additional articles)
10. *USA Today*, "NASA probes 'thermal problem,' February 3, 2003
11. *The Arizona Republic*, "Shuttle likely doomed by blastoff damage: NASA makes frank admission – possible Columbia debris in Phoenix," February 4, 2003
12. *Daily News-Sun*, "NASA team checks AZ for shuttle debris," February 7, 2003
13. *The Arizona Republic*, "Radar hints at incident on shuttle's 2nd day up," February 9, 2003
14. *Houston Chronicle*, "Debris from shuttle's left wing: NASA sought assessment of landing gear," February 11, 2003
15. *Houston Chronicle*, "Flight director recalls catastrophe: Shocked Mission Control rushed to archive Columbia's final moments," February 15, 2003
16. *The Lufkin Daily News*, "Nacogdoches in history books with other U.S. cities: Tragedies made other towns famous," February 16, 2003
17. *Houston Chronicle*, "Final moments aboard STS 107," March 1, 2003
18. *The Daily Sentinel*, "Seven for seven: Trees planted in memory of astronauts lost on Columbia," March 2, 2003 (photo and article

- featuring Ross on front page)
19. *Houston Chronicle*, "Impact test bolsters foam theory: Simulation produces crack in wing panel," June 7, 2003
 20. Kennedy Space Center – Official Launch Program, Commemorative Issue – Return to Flight, circa 2005

Folder

3.

Newspapers – Later Years, 1999-2013

Item

1. *Journal and Courier*, "Purdue's Place in Space," supplement, October 17, 1999
2. Crown Point *Post-Tribune*, "Purdue's astronauts coming home: NWI's Ross joins reunion this weekend," October 22, 1999
3. *Journal and Courier*, "17 astronauts link up to orbit at alma mater: Appeal made at historic reunion to fly beyond moon," October 23, 1999
4. *The Indianapolis Star*, City/State, "Voyagers return to their launch pad: Purdue's renowned astronaut corps receives a warm welcome home." October 23, 1999
5. *Journal and Courier*, "Purdue's space heroes trade high-fives at historic halftime: 18 alumni astronauts, including first and last men on the moon honored by sellout crowd," October 24, 1999
6. *The Times*, Local, "Astronaut Jerry Ross lands honorary job," April 29, 2000
7. Crown Point *Post-Tribune*, Region, "Class of 2000 grads receive diplomas at Purdue Calumet," (picture of Ross receiving honorary Doctorate of Science, May 22, 2000
8. Crown Point *Post-Tribune*, Life, "Indiana's Rocket Man: New book on Gus Grissom elaborates on Hoosier hero," November 28, 2004
9. *USA Today*, "NASA's spacewalkers step into a new era: Astronauts making more frequent – and riskier – ventures 'outside,' January 17, 2006
10. *The Times*, "7 Missions 9 Spacewalks 1 Down-To-Earth Hoosier: Crown Point's Jerry Ross Trains, Entertains Next-Generation Astronauts," April 22, 2007
11. *Journal and Courier*, "Purdue's Next Step: Countdown to new era in aerospace education begins," October 21, 2007
12. *Journal and Courier*, "Kennedy's space speech fueled dreams at Purdue," October 22, 2007
13. *Journal and Courier*, "Armstrong expresses his devotion to Purdue," October 27, 2007
14. *Journal and Courier*, "Building (of) the future: Thousands attend ceremony for Neil Armstrong Hall," (includes front page photograph of Armstrong), October 28, 2007
15. *USA Today*, "Atlantis' Last Journey: On the ground, they kept the shuttle flying," July 7, 2011
16. *Florida Today*, "A stellar success: From scientific strides to

- inspiration, shuttle has greatly enriched our world,” July 10, 2011
17. *The Times*, “Interview With An Astronaut: Out-Of-This-World Stories Crown Point native shares tales from space,” November 24, 2012
 18. *The Journal Friendswood*, “‘Space’ family calls Friendswood ‘home,’” January 24, 2013
 19. *The Daily News*, Faith, “Epiphany in space: Former astronaut Jerry Ross has written a book about his faith and work,” January 26, 2013
 20. *Florida Today*, “Discovery: Back To The Future,” undated
 21. Poster/Flyer, “Purdue Engineering E-Week at Purdue April 12-17, 2004: Designing Space Suits For Mars, Amy Ross, BSME '94, MSME '96, Space Suit Engineer, Johnson Space Center”
 22. Poster, “Convocation Distinguished Engineering Alumni, Profiles in Leadership,” April 16, 2004

Series 8. Artifacts, 1966-2013

(5.40 cubic feet)

Box 81 *Purdue - Pledge Boards, Paddles and Circle Pines Framed Photograph, circa 1966-1970*

Item

1. Pledge Paddle, Circle Pines Co-op House, circa 1966-1970
2. Framed Photograph, Circle Pines House – Members, 1970
3. Pledge Board, Pi Tau Sigma, circa 1966-1970
4. Pledge Board, Tomahawk, circa 1966-1970
5. Pledge Board, Tomahawk, (Karen Sue Pearson Ross’) circa 1966-1970

Box 82 *Flight Helmet, 1975-1979*

Item

1. Flight Helmet, worn at the United States Air Force Test Pilot School and B-1 Bomber during test flights at Edwards Air Force Base, California, August 1975 - February 1979

Box 83 *Flight Suit, circa 1980s*

Item

1. NASA Flight Suit, blue with crew patches and name tag, circa 1980s

Box 84 *Plaques and Awards, 1986-2003*

Item

1. Ayuntamiento De Queretaro, Mexico glass presentation item given to Ross during STS-61B crew's post flight visit to Mexico, 1986
2. Plaque, Crown Point, Indiana, Little League, 1989
3. Plaque, Louisiana State University, American Society of Mechanical Engineers and American Institute of Aeronautics and Astronautics, given to Ross after his speech to their joint meeting, November 1989
4. Metal Plaque, Lowell, Indiana, 80th Labor Day Parade, September 6, 1999
5. Plaque, "ILC Dover," 1999
6. Award/Plaque, *Aviation Week and Space Technology*, Laurels Award, 1998
7. Award/Plaque, *Aviation Week and Space Technology*, Laurels Award, 2002
8. Plaque, Association of Space Explorers, Tokyo, Japan, 2003
9. Magnetic Sign, "Grand Marshall, Jerry Ross," undated
10. ORBITEC, STS-110 Seeds in Plastic Display, undated

Box 85 *Gift - Mexico, 1986*

Item

1. Clay Statue, "Sacerdote Maya," presented to Ross during STS-61B's post-flight visit to Mexico, 1986

Box 86 *Patches, Nametag and Presentation Item, 1985-2007*

Item

1. Cloth, Crew Patches (7) – One from each of Ross' Space Shuttle missions, 1985-2002
2. Nametag, from NASA Lunar Dust Workshop, 2007
3. Presentation Item, Taejon (South Korea) Christian International School, undated

Box 87 *STS-124 Thank-You Montage and Oversized Thank-You Card, Jerry Ross Elementary Students and Staff, 2008-2013*

Item

1. STS-124 Crew Thank-You Montage with Flight Patch flown on Shuttle, 2008
2. Oversized Thank-You Card, from Jerry Ross Elementary Students and Staff, February 4, 2013

Series 9. Oversized Maps and Posters, FF3 - Drawer 2, 1981-2011
(132 linear feet)

FF3 – Drawer 2, Maps and Posters, 1981-2011

Folder

1. *Columbia Recovery Zone Maps, 2003*
Item
 1. NASA, Air Ops, Columbia Recovery Zone Maps, February 2003
 2. NASA, Air Ops, Columbia Recovery Zone Maps, February 2003
 3. NASA, Air Ops, Columbia Recovery Zone Maps, February 2003
 4. NASA, Air Ops, Columbia Recovery Zone Maps, February 2003
2. *Columbia Recovery Zone Maps, 2003*
Item
 1. Map, Shuttle Columbia Zone Map, "Significant Recovered Items," 15"x25", February 21, 2003 (conservation needed, rubber band stuck on paper)
 2. Map, Zone – Columbia Recovery, 36"x72", February 21, 2003
3. *Columbia Recovery Zone Maps, 2003*
Item
 1. Zone Map, "Left Wing Items Recovered," with document attached, March 13, 2003
 2. Sonar Search Strategy, 2003
4. *Columbia Recovery Zone Maps, 2003*
Item
 1. Map, "Toledo Bend Reservoir Search Map," February 2003
 2. "Columbia Scan Sonar Search," 2003
 3. Poster, NASA Earth Science Enterprise, "Night Lights," Earth at night, undated
5. *Posters, 1994-2011*
Item
 1. Poster, NASA astronauts, 1994
 2. Poster, Roster of Russian astronauts, 1999-2000
 3. Poster, "25 Years of Space Shuttle Flight," 2006
 4. Poster, "30 Years of Shuttle," 2011 (2 copies)
 5. Poster, "It's About Performance...USA United Space Alliance," undated
6. *Posters, 1981-2004*
Item
 1. Poster, "International Space Station, The First 3 Years," 1984
 2. Poster, NASA Shuttle Missions list," 1981-1997
 3. Poster, *Times*, front page parody; "Ross lands shuttle on moon!!" December 11, 1998
 4. Poster, "NASA Space Flight Awareness," 2002
 5. Poster, 'Our place in space' Purdue astronaut reunion, October 22-23, 1999
 6. Poster, 'One Small Step,' "A Tribute to Purdue graduates in US space program, 2002
 7. Poster, photo taken January 26, 2003 by the crew of the Space

Shuttle Columbia, "The crew of Shuttle Columbia did not return safely to Earth, yet we can pray that all are safely home," President George W. Bush

8. Poster, NASA Astronaut Corps, 2002-2004
9. Poster, International Space Station, Boeing, undated

Series 10. Genealogy, 1889-1940

(0.2 cubic feet)

Box 88 *Book by Ross Compiled From Family Diaries, 1889-1940*

Item

1. "The Diaries of Harriet "Hattie" Dillabaugh, 1889-1940," compiled by Jerry L. Ross