

**College of the Holy Cross  
Archives and Special Collections  
Collection Inventory**

Accession Number: **SC 2000-18**

Collection Name (Title): **Richard J. Green Space Exploration Collection**

Dates of Materials: **1960s, 1970s**

Size of Collection: **4 Series comprised of 17 Boxes; 6 Oversize Boxes; 8 Loose Items**

Arrangement: The collection is arranged into the following series:

**Series 1: Publicity**

**Series 2: Reports, Documents, Charts, and Books**

**Series 3: Photographs and Slides**

**Series 4: Memorabilia**

Restrictions: **none**

Related Material:

Preferred Citation: **Richard J. Green Space Exploration Collection**

Processed on: **Dec. 2011**

**Biography/History:**

Richard J. Green, a native of Newark, New Jersey, enjoyed a long career in the science field. He graduated from Holy Cross in 1949, received a master's degree in physics from Fordham University, and attended the Advanced Management Program at the Harvard Business School. He has worked at the National Aeronautics and Space Administration (NASA) during the Apollo program, 1962-1970; the Federal Emergency Management Agency (FEMA), 1979-1981; and the National Science Foundation, 1992-1995. In 1996, he started Green Associates, a private consulting firm.

**Scope and Content Note:**

This collection documents the career of Richard Green especially his involvement with the early space missions and the race to the Moon.

Contents: Magazines, newspapers, books, photographs, slides, maps, and special objects

**Box and Folder List:**

**Series 1: NASA Publicity**

- Box 1:** Magazine and Newspaper Articles about NASA and the Apollos, 1964-71
- Folder 1: "Footprints on the Moon," *National Geographic*, 1964
  - Folder 2: "Next Stop: the Moon," *Newsweek*, October 14, 1968
  - Folder 3: "Into the Universe," *Newsweek*, January 6, 1969
  - Folder 4: "The Hidden Perils of a Lunar Landing," *Saturday Review*, June 7, 1969
  - Folder 5: "The Case for Space," *Forbes*, July 1, 1969
  - Folder 6: "The Moonage," *Newsweek*, July 7, 1969
  - Folder 7: "The Great Adventure," *Newsweek*, July 21, 1969
  - Folder 8: "Letter from the Space Center," *The New Yorker*, July 26, 1969
  - Folder 9: "One Giant Leap," *Newsweek*, July 28, 1969
  - Folder 10: "Man's First Day on the Moon," *Popular Mechanics*, July 1969
  - Folder 11: "Moons, Mars, and Man," *Newsweek*, August 11, 1969
  - Folder 12: "First Explorers on the Moon," *National Geographic*, December 1969
  - Folder 13: "Target for Apollo 13," *Science News*, April 4, 1970
  - Folder 14: Misc. Articles, *Science News*, May 23, 1970
  - Folder 15: "Option in Space," *Science News*, July 25, 1970
  - Folder 16: *Science News*, August 1, 1970
  - Folder 17: *Science News*, August 22 & 29, 1970
  - Folder 18: *Science News*, August 28, 1970
  - Folder 19: "NASA Program for Exploration of the Moon and Planets" and "USG Studies Apollo 15 Moon Rocks," *Eos*, October 10, 1971
  - Folder 20: *Science*, November, 1971
  - Folder 21: Apollo Press Materials- Newspaper Clippings
- Box 2:** Apollo 13 Press Release, 1970
- Folder 1: Astronauts Will Test Marksmanship on Moon
  - Folder 2: 40- Story Skyscraper Moved to Make Way for Apollo 13
  - Folder 3: NASA Soothes Homesick Appetites
  - Folder 4: Portfolio of EASEP Sketches
  - Folder 5: Taking the Moon's Temperature
  - Folder 6: Scientific Observation Carried to the Moon
  - Folder 7: Elderly, Sedate Moon Still Produces Surprises
  - Folder 8: Bendix Fact Sheet for Apollo 13
  - Folder 9: Press Release Folder
  - Folder 10: Apollo 13 Press Kit

**Oversize Box #1:** Publicity- Magazines

- Folder 1: "Off to the Moon," *Life* (Special Issue), July 4, 1969

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**Oversize Box #1: Publicity- Magazines**

- Folder 2: "Voyage to the Moon," *Washington Star* (Supplement to Evening Star), July 14, 1969
- Folder 3: "The Moon is a Rosetta Stone," *The New York Times Magazine*, November 9, 1969
- Folder 4: "To the Moon and Back," *Life* (Special Edition), 1969
- Folder 5: "Apollo 8: Voyage to the Moon," *Look Magazine*, 1969

**Oversize Box 2: Apollo 11 and 12 Headlines and Press**

- Folder 1: Apollo 11 Front Page
- Folder 2: Apollo 11 Press
- Folder 3: Apollo 11 Headlines
- Folder 4: Apollo 12 Press

**Oversize Box 3: Publicity- Newspapers**

- Folder 1: "The First Lunar Landing," *The Washington Post*, July 13, 1969
- Folder 2: "Dangers of the Moon Flight," *The New York Times*, July 13, 1969
- Folder 3: "Man on the Moon," *The New York Times*, July 20, 1969
- Folder 4: "Apollo in Orbit, Set for Landing," *The Washington Post*, July 20, 1969
- Folder 5: "Astronauts Swing into Moon Orbit in Preparation for Today's Landing," *The New York Times*, July 20, 1969
- Folder 6: "The Eagle Begins Trip Home," *The Evening Star*, July 21, 1969
- Folder 7: "The Eagle Has Landed—Two Men Walk on the Moon," *The Washington Post*, July 22, 1969
- Folder 8: "Moon Crew Lifts Off Safely, Apollo 11 Heads for Earth," *The Washington Post*, July 22, 1969
- Folder 9: "Apollo Heads Home as Crew Rests," *The Evening Star*, July 22, 1969
- Folder 10: "Astronauts Joke as Apollo Coasts back to Earth," *The Washington Post*, July 23, 1969
- Folder 11: "Apollo on Perfect path to Earth," *The Washington Post*, July 24, 1969
- Folder 12: "Moon and Beyond," *The New York Times*, July 27, 1969
- Folder 13: "The Moon: A New Frontier," *The New York Times*, Special Supplement, August 4, 1969
- Folder 14: "Apollo Goals Irk Scientists," *The Washington Post*, August 3, 1969
- Folder 15: "Astronauts Come Home Safely," *The Washington Post*, April 18, 1970
- Folder # 16: "The End of Apollo: A Sad Retreat from Greatness," *The Sunday Star and Daily News* (Washington, DC), December 17, 1972

**Series 2: NASA Reports, Documents, Charts, and Books**

**Box 1: NASA Reports and Documents**

- Folder 1: Results of the Third United States Manned Orbital Space Flight, 1962
- Folder 2: The Observatory Generation of Satellites, March 1963

**Series 2: NASA Reports, Documents, Charts, and Books**

**Box 1: NASA Reports and Documents**

- Folder 3: Astronaut L. Gordon Cooper, Jr. and the Faith 7, 1963
- Folder 4: Ranger 7, A Special Report, August 5, 1969
- Folder 5: Space Research, Directions for the Future, Part One, 1965
- Folder 6: Surveyor 1, A Preliminary Report, June 1966
- Folder 7: Surveyor 7, A Preliminary Report and The Surveyor Project, May 1968
- Folder 8: The Post-Apollo Space Program, 1969
- Folder 9: *Astronaut Trail Magazine*, Apollo 9, 1969
- Folder 10: Apollo 12, A New Vista for Lunar Science, 1970
- Folder 11: The First Lunar Landing, 1970
- Folder 12: Earth Orbital Science, April 1971
- Folder 13: Planetary Exploration, June 1971
- Folder 14: Satellites at Work, June 1971
- Folder 15: Aeronautics, December 1971
- Folder 16: On the Moon with Apollo 16, April 1972
- Folder 17: Apollo 17 at Taurus-Littrow, 1973
- Folder 18: Apollo Lunar Exploration Program Science Objectives and Mission Plans
- Folder 19: Characteristics of Lunar Surface Experiments for Apollo Missions 16-19

**Box 2: Books and Booklets**

- Folder 1: *Vistas of Science: Space*, NSTA, 1961
- Folder 2: *Projects: Space*, 1962
- Folder 3: *Mariner- Mission to Venus*, 1963
- Folder 4: *Space... The New Frontier*, 1964
- Folder 5: *X-15 Research Results*, 1965
- Folder 6: *The Man Behind the Rocket*, 1965
- Folder 7: *What to Do and See: Cape Kennedy*, November 1969
- Folder 8: Apollo: Man on the Moon coloring book, 1969
- Folder 9:- *Soviet Space Research*, 1970s
- Folder 10: *On the Moon with Apollo 15*, June 1971
- Folder 11: Apollo 15 at Hadley Base, 1971
- Folder 12: ЗЕМЛЯ- КОСМОС- ЛУНА, (Soviet Space Research-Russian Edition) 1972
- Folder 13: Apollo 16 at Descartes, 1972
- Folder 14: NASA Booklets, July 1969- July 1970
  - Apollo Phone Numbers- July 1969
  - Flight Schedules to and from Cities Most Frequently Visited by NASA Personnel, November 1969
  - Apollo Lunar Exploration Key Data Notebook, March 1972
  - Pocket Statistics, August 1970
  - Apollo Phone Numbers, April 1970

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**Box 2: Books and Booklets**

- Folder 14: NASA Booklets, July 1969- July 1970
  - Apollo Mission Briefs, July 1970
  - NASA Photography from 5 years of Space

**Box 3: NASA Preliminary Science Reports- Apollo 11 (1969), Apollo 12 (1970), Apollo 14 (1971), Apollo 15 (1972), Apollo 16 (1972), Apollo 17 (1973)**

**Box 4: NASA Reports, 1965-1982**

- NASA 1965 Summer Conference on Lunar Exploration, July 19- 31, 1965
- 22<sup>nd</sup> Semiannual Report to Congress, July 1- December 31, 1969
- Science*, January 30, 1970
- NASA Office of Defense Affairs, the First Five Years
- Managing NASA in the Apollo Era, 1982

**Box 5: Articles, Notes and Special Papers, Etc. 1959- ca. 1975**

- Folder 1: "The Next Ten Years in Space," Staff Report, Select Committee Astronauts and Space, 1959
- Folder 2 "Prospects for Space Travel," 1960
- Folder 3: Lunar Orbit Rendezvous, 1962
- Folder 4: "The V-2 Rocket," W. Domberger, AAAS Meeting, paper, December 28, 1962
- Folder 5: Quad IV Inspection Points
- Folder 6: Geological Characteristics of the nine Lunar Landing Mission Sites Recommended by the Group for Lunar Exploration Planning, 1968
- Folder 7: "HHH: on the Space Program," 1968
- Folder 8: Richard J. Green's Personal Notebook covering the lunar landing, 1969
- Folder 9: ASLEP Press Backgrounder, 1969
- Folder 10: Worcester Polytechnic Institute Commencement Address, 1970
- Folder 11: Advanced Planning Review: Lunar Exploration Analysis, 1970
- Folder 12: Science Policy: A Working Glossary, 1972
- Folder 13: ASLEP- Apollo 12, 1975

**Box 6: NASA Facts (fifteen educational reports), 1962-1965**

- Folder 1: Mariner, 1962
- Folder 2: The Explorer Satellites, 1962
- Folder 3: Project Relay, 1963
- Folder 4: Mariner II Reports, 1963
- Folder 5: Tiros, 1964
- Folder 6: Interplanetary Explorer Satellites, 1964
- Folder 7: V/STOL Aircraft, 1964
- Folder 8: Explorer XVI, 1964
- Folder 9: Launch Vehicles
- Folder 10: Nimbus, 1964
- Folder 11: Mariner IV, 1965

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**Box 6:** NASA Facts (fifteen educational reports), 1962-1965

- Folder 12: Biosatellites, 1965
- Folder 13: Tiros, 1965
- Folder 14: Project Ranger, 1965
- Folder 15: Pegasus, 1965

**Box 7:** Apollo 11 and 12 Mission Reports, 1969-1970

- Folder 1: Apollo 11 Mission Operation Report, 1969
- Folder 2: Apollo 11 Mission Report, 1969
- Folder 3: Apollo 11 Special Part 2, Current News, 1969
- Folder 4: Apollo 12 Mission Operation Report, 1970
- Folder 5: Apollo 12 Mission Report, 1970

**Box 8:** Apollo Lunar Surface Experiments Package (ALSEP) and Early Apollo Scientific Experiments Package (EASEP), 1962-1965

- Folder 1: ASLEP General Familiarization Manual, November 15, 1966
- Folder 2: EASEP Flight System Familiarization Manual, April 25, 1969
- Folder 3: EASEP Mission Rules
- Folder 4: Apollo 13-The Second ALSEP

**Oversize Box 1:** Lunar Surface Exploration Reference Charts

- Folder 1: Offices for Apollo Program and Manned Space Flight Chart
- Folder 2: Lunar Surface Exploration Chart (2 copies)
- Folder 3: Lunar Earthside Chart, 1968

**Series 3: Photographs and Slides**

**Box 1:** Apollo Lunar Surface Experiments Package- Photos

- Folders 1-2: ASLEP and EASEP photos
- Folder 3: Photographs of Bendix Corp. Navigation and Control Division, Undated

**Box 2:** Apollo 8, 11, 12, 13, 14, and 15 Photos

- Folder 1: Apollo 8- Crew
- Folder 2: Apollo 11- Crew
- Folder 3: Apollo 11- Lunar Surface
- Folder 4: Apollo 11- Trailing Ship
- Folder 5: Apollo 11- Landing
- Folder 6: Apollo 11- EASEP
- Folder 7: Apollo 12- Lunar Surface
- Folder 8: Apollo 12- Lunar Surface
- Folder 9: Apollo 13
- Folder 10: Apollo 13- Press Release Photos
- Folder 11: Apollo 14
- Folder 12: Apollo 15

**Series 3: Photographs and Slides**

**Box 3:** Surveyor 3, Ranger, Mercury Atlas 8, Tiros, X-15, Delta Launch, Saturn, and Mariner 4 Photos

Folder 1: Surveyor 3

Folder 2: Ranger

Folder 3: Mercury Atlas 8

Folder 4: Tiros

Folder 5: X-15

Folder 6: Delta Launch

Folder 7: Saturn

Folder 8: Mariner 4

Folder 9: Mariner 4

**Box 4:** Apollo 11 and Apollo 12 Slides

Folder 1: Apollo 11 Slides

Folder 2: Apollo 12 Slides

**Box 5:** Apollo 11 Stereo Camera Slides, July 1969

**Oversize Box 1:** Apollo 11 and Apollo Saturn Launch Photos

**Oversize Box 2:** Photos of ASLEP and Apollo 11

Folder 1: ASLEP Flight 1 Configuration (2 copies)

Folder 2: Apollo 11 Astronaut traversing surface with EASEP

Folder 3: Apollo 11 Astronaut at Deployed Seismometer

Folder 4: Laser Ranging Retro-Reflector

Folder 5: Deployed Seismometer – Apollo 11

Folder 6: Apollo 11 Astronaut with Experiments and Lunar Module

Folder 7: Apollo 11 Astronaut with Experiments and Lunar Module

**Oversize Box 3:** The Moon as Viewed by Lunar Orbiter, 1969

**Series 4: Memorabilia**

**Box 1:** Commemorative, Stamps, Envelopes, Decals, Badges, and Passes

Folder 1: Echo 1 first day cover, 1960

Folder 2: Project Mercury first day cover, 1962

Folder 3: Apollo 11 Decal signed by Neil Armstrong, Edwin “Buzz” Aldrin, and Michael Collins, 1969

Folder 4: Apollo 11 first day cover

Folder 5: Apollo 11 Decal

Folder 6: Apollo 12 first day cover

Folder 7: Apollo 13 Decal, 1970

Folder 8: Apollo Commemorative badges

**Oversize Loose Items**

1: Apollo 11 Lunar Landing Site

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Oversize Loose Items

- 2: Electronic Lunar Lifeline Apollo Tracking System
- 3: Apollo 11 20<sup>th</sup> Anniversary Chart
- 4: Apollo Design Reference Mission Chart (3'x4') which lays out the Apollo mission as envisioned in 1965
- 5: USAF Lunar reference mosaic
- 6: Lunar Surface Map showing coordinates of the Apollo 13 impact point to provide seismic signals during the Apollo 11 and 12 missions
- 7: Apollo 11 Landing Site
- 8: Lunar Orbiter Spacecraft Surface Photos