

MS-465 Dr. Stanley C. White Papers

Collection Number: MS-465

Title: Dr. Stanley C. White Papers

Dates: 1950-2000. (Bulk 1961-1979)

Creator: Dr. Stanley C. White

Summary/Abstract:

Dr. Stanley C. White was a pioneer in the design of life support systems for space travel. He worked as an aerospace doctor with the Mercury, Gemini, Apollo, and Skylab programs. He was the president of both Aerospace Medical Association and International Academy of Aviation and Space Medicine. Dr. White's collection contains photographs, slides, and papers from his career. Many of the photographs are from his work at NASA and his papers contain the selection of astronauts. There are many family photographs and slides.

Quantity/Physical Description: 9 linear feet

Language(s): English, Russian, French

Repository:

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

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

Restrictions on Use:

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 Unpublished manuscripts are protected by copyright.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

Preferred Citation:

(Box Number, Folder Number), MS-465, Dr. Stanley C. White Papers, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio

Acquisition:

This collection was donated to Special Collections and Archives by Dr. Stanley C. White's son, Stuart White, in January 2012.

Other Finding Aid: List of slides in boxes originated by Stanley C. White

Physical Characteristics and Technical Requirements:

Cassette Player needed for cassettes. A slide projector or a light table will be needed to view the slides.

Related Material:

FSC-1 Ross A. McFarland Collection in Aerospace Medicine and Human Factors Engineering
FSC-2 H.T.E. Hertzberg Anthropometry Papers
FSC-21 Aerospace Medical Association Records
FSC-37 Space Medicine Records
FSC-40 International Academy of Aviation and Space Medicine (IAASM) Records
MS-350 Harold Sandler Papers
MS-451 Skylab Collection

Processing Information:

Lantern slides and projector slides, originally separate boxes, were rehoused. Presentation boards, due to their condition, were photocopied and then discarded; the original photos from these boards were sleeved and paper-clipped to the presentation photocopies.

Processed by: Stephanie Keen, Caroline Ibbotson, Spring 2013.

Arrangement:

The collection is arranged into four series and six subseries

Series I: Personal Information

Series II: Career Materials

Series III: Publications

Subseries IIIA: Magazines/pamphlets/manuals

Subseries IIIB: Books

Series IV: Audiovisual Material

Subseries IVA: Photographs

Subseries IVB: Transparencies

Subseries IVC: Slides

Subseries IVD: Memorabilia

Biographical/Historical Note

Dr. Stanley C. White was born January 13, 1926 in Lebanon, Ohio. He obtained his M.D. in 1949 at the University of Cincinnati College of Medicine. He received his Master of Public Health (MPH) in 1953 at John Hopkins University School of Public Health & Hygiene. He received his Board Certification in Aerospace Medicine from the American Board of Preventive Medicine in 1956.

He was a Colonel in the United States Air Force where he spent most of his career working in the Space Program. Throughout his career in the Air Force Space Program, he worked on the design of life support systems for manned space flight. He helped with the selection of astronauts for the Mercury, Gemini, Apollo, and Skylab programs. Dr. White served as Senior Medical and Life Sciences manager for the development and certification of Life Support Systems, Feeding & Waste Management Systems, Space Suits, and Emergency Survival Equipment that were included in Project Mercury, Gemini and Apollo Space Program. Dr. White's duties also included the medical care and support of the astronauts during flight, during

normal and emergency landings, and post-flight assessments. Once he retired from the military, he continued to work in life sciences retiring as senior scientist at the Bionetics Corporation, Kennedy Space Center, Florida.

He was married to Helene for sixty-three years and had four sons, one daughter, twelve grandchildren and four great-grandchildren. He passed away September 10, 2011 in Satellite Beach, Florida.

Scope and Content

The collection is organized into four series and five subseries based on Dr. Stanley C. White's career and personal life. The bulk of his collection is from his work as a NASA aerospace physician during the Mercury, Gemini, Apollo, and Skylab programs, from 1961 to 1971. Also included in the collection are personal photographs and memorabilia relating to his travels.

Series I, Personal Information, contains materials relating to Dr. White himself. Included in this section are personal files related to his career in the Air Force and work with NASA. This series contains correspondence from NASA and copies of his resumes.

Series II, Career Materials, contains papers, reports, and presentations written by Dr. White or others regarding the projects on which he worked for the Air Force and NASA. These projects include Mercury, Gemini, Apollo, X-15, X-20 (Dyna-Soar), the Manned Orbiting Laboratory, and Skylab. Photographs and papers on the psychological tests administered to potential astronauts. Diagrams and plans for the Manned Orbiting Laboratory are also present.

Series III, Publications, consists of papers, magazines, and books that Dr. White either collected during his lifetime that deal with science, medicine, and space travel, exploration, and aviation. Some of the materials mention him by name such as *Who's Who in Aviation* from 1973. This series is divided into two subseries.

Subseries IIIA, Magazines/Pamphlets, contains articles, magazines, and pamphlets that Dr. White collected on space exploration, aviation, and various aspects of space medicine. Many of the magazines in this subseries cover topics dealing with projects on which he worked. NASA pamphlets/booklets are contained within the series, as are popular magazines such *Aeronautics* and *Aerospace Medicine*.

Subseries IIIB, Books, consists of books Dr. White accrued during his career. The books vary in size and subject matter but most concern scientific topics relating to either space and/or medicine. Some of the books explicitly mention Dr. White while others were likely used as reference material. *The Experiments of Biosatellite II* is autographed by the editor. *Space Medicine* by Mae Mills Link directly mentions Dr. White, though he is not listed in the index. The 1970 edition of *Who's Who in Aviation* also features Dr. White.

Series IV, Audiovisual Material, consist of four subseries: IVA Photographs, IVB Transparencies, IVC Slides, and IVD Memorabilia. Audiovisual materials consist of photographs, transparencies, slides, and memorabilia. Many photographs are from NASA related to the Mercury, Apollo, and Gemini space programs.

Subseries IVA, Photographs, consist of personal and professional photographs of Dr. White from the Air Force. Also included in this section are photographs on the space programs Mercury and Apollo. Many of the Mercury photographs include training photographs and photographs of the astronauts.

Subseries IVB, Transparencies, consist of transparencies used for presentations and professional development. Many transparencies relate to presentations and papers about aerospace medicine and NASA space program missions. Some of the transparencies correspond with slides in Subseries IVC.

Subseries IVC, Slides, consists of slides, both plastic and lantern, that either concern personal or professional matters. There are a good deal of slides that deal with his family life, including his children, holiday celebrations, and socials with family and colleagues. His travels/family vacations include locations such as Colonial Williamsburg, Niagara Falls, Europe, and photographs of rocket launches. Personal slides are annotated indicating the location and details about the slide. Some of the original slide list descriptions are located in Box 8, Folder 1. Some of the slides correspond with transparencies in Subseries IVB. Full lists of the slides/presentations are stored with the materials.

Subseries IVD, Memorabilia, consist of medals Dr. White received. Many medals are from Russia and relate to his time working on the Apollo/Soyuz Mission.

Subject Terms

Persons/Families

White, Stanley C. 1926-2011
Glenn, John, 1921-
Shepard, Alan B. (Alan Bartlett), 1923-1998

Organizations/Corporate Names

Project Apollo (U.S.)
Project Gemini (U.S.)
Project Mercury (U.S.)
Skylab Program
Space Shuttle Program (U.S.)
Space Station Program (U.S.)
United States. National Aeronautics and Space Administration
Aerospace Medical Association
United States. Air Force

Places

Dayton (Ohio)
John F. Kennedy Space Center Region (Fla.)
Wright Patterson Air Force Base (Ohio)

Subjects (General)

Space medicine
 Outer space -- Exploration
 Closed ecological systems (Space environment)

Material Types

Reports
 Journals
 Magazines
 Newspapers Clippings
 Audiocassettes
 Slides
 Photographs
 Scrapbook
 Memorabilia
 Correspondence

Occupations

Physicians

Collection Inventory

Series I		Personal Information	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	1	Biographical Information	1926-1975
	2	Professional Certificates	1962-1994
	3	Officer Command Selection Record Group	1945-1946, 1958-1976
	4	NASA Correspondence	1959-1974
	5	Air Crew Standardization/Evaluation Records	1952-1976
	6	Civil Service Commission Correspondence and Supplements	1971-1972
	7	Aerospace Medical Association Correspondence	1977-1979
	8	Department of Air Force/DoD Correspondence	1953-1975
	9	The Society of United States Air Force Flight Surgeons Papers Correspondence	1960-1961, 1975
	10	Medical Related Correspondence	1973-1982
	11	The Florida Agricultural and Mechanical, University College of Pharmacy Correspondence	1985-1986
	12	University of Cincinnati, College of Medicine Correspondence	1979
	13	American Rocket Society Correspondence	May 5, 1961
	14	The American Public Health Association (APHA)	1978

		Correspondence	
	15	General Correspondence	1962-1978
	16	Soviet Union Paperwork	1973-1987
Series II Career Materials			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	1	DoD, USAF – Syllabus of Crew Selection Techniques Development Program	Dec 1958
	2	Crew Selection	1958-1960, 1967
	3	NASA – Project Mercury Medical – Aspects	1960
	4	NASA – Project Mercury – Papers and Documents	1960-1961
	5	MA-3 Data	1961
	6	MA-4 Post Flight Debriefing	1961?
	7	NASA – MA-6 – Records and Reports	1962
	8	NASA – MA-6 – Records and Reports	1962
	9	Project Gemini and Mercury Papers	Undated
3	1	Space-Related Papers	1962-1965
	2	Space Flight Papers	1958, Undated
	3	Space Flight 15-X	1961
	4	Space Flight	1958-1961
	5	DoD – USFA – Dyna-Soar X-20 Space Plane Bioastronautics	1961, 1963
	6	Space Flight Radiation Papers	1957-1960
	7	Space Flight Radiation Papers	1960-1963
	8	Biomedical Support Papers	1961-1970
	9	NASA Exhibits	Dec 1960
4	1	Space Station – Reports and Memorandum on Space Station	1963
	2	Space Station – <i>Manned Orbiting Station and Alternatives</i> : Report to the President’s Scientific Advisory Committee Space Vehicle Panel	Oct 10, 1963
	3	DoD – Manned Orbiting Laboratory Reports, Research, and Papers	1964-1965
	4	DoD – Manned Orbiting Laboratory Reports, Research, and Papers	1964-1965
	5	DoD – Manned Orbiting Laboratory Reports, Research, and Papers	1964-1965
	6	MOL Working File	1964-1965
	7	MOL Working File, Transparencies	[1964 or 1965?]
5	1	NASA – Apollo Project – Report of Apollo Review	1967

		Board and Appendix	
	2	NASA – Apollo Project – Spec and Program Write-Up	1961
	3	NASA – Apollo Project – Spec and Program Write-Up (cont.)	1961
	4	NASA – Applications of Aerospace Technology in the Public Sector	1970, 1971
	5	Skylab Flight Plan, Preliminary Reference A, Part 1	Sep 27, 1971
	6	Skylab Flight Plan, Preliminary Reference A, Part 2	Sep 27, 1971
6	1	USFA Medical Corps Career Development Papers	1970-1073
	2	Air Force Presentation Papers	1969, 1975
	3	Papers Related to Fourth International Symposium on Basic Environmental Problems of Man in Space	1971
	4	Long Range Plan for Aerospace Medicine	Jun 15, 1969
	5	The DoD Medical and Human Laboratories Utilization Study	1976
	6	DoD – Technology Coordinating Paper: Medicine and Biological Sciences	Jan 1977
7	1	Presentation Papers	Undated
	2	Mercury – Medical Aspects of Space Operations Presentations	May 1969
	3	Speeches	1958-1965
	4	The Impact of Electronics on Medicine Paper	1964
	5	Space Medicine Presentations	1961, 1971-1972
	6	ESRO Presentation	Mar 15, 1971
	7	The Bioneticis Corporation – The Aerospace Medical Research Laboratory: A Leader in the Development of Life Support	1980s
	8	Space Transportation Biomedical Operations Support Study, Study Period August 9, 1982 – April 30, 1983, Part 1	1983
	9	Space Transportation Biomedical Operations Support Study, Study Period August 9, 1982 – April 30, 1983, Part 2	1983
8	1	Original Slide Lists	1956-1962
	2	DOD Manned Orbiting Laboratory Aerospace Research and Bioastronautics Staffing Recommendations	1965
	3	NASA Project Mercury Medical Research Aspects	Sep 8, 1960
	4	Manned Orbital Laboratory (MOL) Astronaut Selection	1963-1964
	5	Continuing Medical Education Activities Log	1977-1979

	6	Personal Russian Correspondence	June-July 1973
	7	Articles about Dr. White	1962-1981
	8	Large Photographs	Undated
	9	Apollo 15 Photos	Jul 26, 1971, Aug 7, 1971
Series III Publications			
Subseries IIIA: Magazines/Pamphlets/Manuals			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
9	1	NASA News Release	1961
	2	Project Mercury Publications	1961
	3	Project Mercury Cartoons	1960
	4	Newspaper Clippings	Undated
	5	News Releases about Dr. White	1964-1977
	6	International Academy of Aviation and Space Medicine	1962-1979
	7	Russia Programs	1973-1974
	8	Publications	1978-1998, Undated
10	1	Publications	1959-1961
	2	Publications	1962
	3	Publications	1963-1964
	4	Publications	1965, Undated
	5	Publications	1971-1976
Subseries IIIB: Books			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
11	1	<i>A History of the Origin of the U.S. Air Force Medical Service (1907-1949)</i> by Mae Mills Link and Hubert A. Coleman	1969
	2	<i>Air Force Aerospace Medical Research Laboratory: 50 Years of Research on Man in Flight</i> by U.S. Air Force	1985
	3	<i>America at the Threshold: America's Space Exploration Initiative</i>	1991
	4	<i>An Assessment of Industrial Activity in the Field of Biomedical Engineering: Task Group on Industrial Activity</i> by Committee on the Interplay of Engineering with Biology and Medicine, National Academy of	1971

		Engineering	
	5	<i>Bioastronautics and the Exploration of Space</i> ed. by Theodore C. Bedwell and Hubertus Strughold	1965
	6	<i>Bioregenerative Systems: A Conference Held in Washington, D.C. November 15-16, 1966</i> by National Aeronautics and Space Administration	1968
	7	<i>The Closed Life-Support System: Ames Research Center Moffett Field, California. April 14-14, 1966</i> by National Aeronautics and Space Administration	1967
	8	<i>Experimenter's Design Handbook for the Manned Lunar Surface Program</i> prepared by Robert A. Fuchs	1967
	9	<i>The Experiments of Biosatellite II</i> ed. by Joseph F. Saunders	1971
	10	<i>The Human Factor: Biomedicine in the Manned Space Program to 1980</i> by John A. Pitts	1985
	11	<i>Human Factors in Long-Duration Spaceflight</i> by Space Science Board, National Academy of Sciences	1972
	12	<i>Infectious Disease in Manned Spaceflight: Probabilities and Countermeasures</i> by National Academy of Sciences	1970
	13	<i>Mercury Project Summary Including Results of the Fourth Manned Orbital Flight: May 15 and 16 1963</i>	1963
	14	<i>This New Ocean: A History of Project Mercury</i> by Loyd S. Swenson, Jr., James M. Grimwood, and Charles C. Alexander	1966
	15	<i>NASA Thesaurus: Volume I, Alphabetical Listing A-L</i> by National Aeronautics and Space Administration	1967
	16	<i>NASA Thesaurus: Volume II, Alphabetical Listing M-Z</i> by National Aeronautics and Space Administration	1967
12	1	<i>NASA Thesaurus: Volume III, Appendixes</i> by National Aeronautics and Space Administration	1967
	2	<i>On the Shoulders of Titans: A History of Project Gemini</i> by Barton C. Hacker and James M. Grimwood	1977
	3	<i>Physiology in the Space Environment: Volume I, Circulation</i> by National Academy of the Sciences	1968
	4	<i>Physiology in the Space Environment: Volume II, Respiration</i> by National Academy of the Sciences	1967
	5	<i>Planetary Quarantine</i> ed. by Lawrence B. Hall	1971
	6	<i>Proceedings of Colloquium on Space Biology Related to the Post-Apollo Programme</i> by European Space Research Organisation	1971
	7	<i>Proceedings of the Working Group on Extraterrestrial Resources: Aerospace Medical Division, Brooks Air Force Base, Texas, February 19-21, 1968</i> by National Aeronautics and Space Administration	1968

	8	<i>Project Mercury: A Chronology</i> prepared by James M. Grimwood	1963
	9	<i>Protection Against Space Radiation</i> ed. by Arthur Reetz, Jr. and Keran O'Brien	1968
	10	<i>Report of the Fourteenth COSPAR Meeting, Seattle, Wa., U.S.A., 18 June – 2 July, 1971</i> by Committee on Space Research, International Council of Scientific Unions	1971
	11	<i>Scientific Uses of the Space Shuttle</i> by Space Science Board, National Research Council, National Academy of Sciences	1974
	12	<i>Space-Cabin Atmospheres: Part I—Oxygen Toxicity</i> by Emanuel M. Roth	1964
	13	<i>Space-Cabin Atmospheres: Part II—Fire and Blast Hazards</i> by Emanuel M. Roth	
	14	<i>Space-Cabin Atmospheres: Part III—Physiological Factors of Inert Gases</i> by Emanuel M. Roth	1967
	15	<i>Space-Cabin Atmospheres: Part IV—Engineering Tradeoffs of One- Versus Two-Gas Systems</i> by Emanuel M. Roth	1967
	16	<i>Space Medicine in Project Mercury</i> by Mae Mills Link	1965
	17	<i>The Space Program in the Post-Apollo Period: A Report of the Presidents Science Advisory Committee</i> by Joint Space Panels	1967
	18	<i>Space Station: A Guide for Experiments</i> by Program Engineering	1970
	19	<i>Who's Who in Aviation</i> by Hardwood & Charles Publishing Co., New York	1973
Oversized Materials			
<u>Loc</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
52	4	Newspaper Clippings	1962-1968
Series IV Audiovisual Materials			
Subseries IVA: Photographs			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
13	1	Project Mercury Astronauts Photographs	May 1962
	2	Project Mercury Training Photos	Nov 29, 1961
	3	Project Mercury Training Photos	Nov 29, 1961

	4	Mercury-Redstone 3/Freedom 7	May 5, 1961
	5	Mercury-Redstone 4/Liberty 7	Jul 21, 1961
	6	Mercury-Redstone 4/Liberty 7	Jul 21, 1961
	7	Mercury-Atlas 5	Nov 29, 1961
	8	Mercury-Atlas 5	Nov 12, 1961, Undated
	9	Apollo 16 Pacific Recovery Area	Apr 27, 1972
	10	Apollo Launch Photos	Apr 16, 1972
	11	Apollo 16 Training Exercise Photos	Feb 6, 1972
	12	Apollo 17, Skylab and Apollo-Soyuz Test Project Photos	1973
	13	Apollo 16 on Moon	May 1-2, 1972
	14	Glenn Family Photographs	Nov 29, 1961
	15	Air Force Photo Wright-Patterson AFB, Ohio	Undated
	16	RCA-2 Photographs	Undated
	17	RCA-2 Photographs	Undated
14	1	NASA Photographs	Undated
	2	NASA Photographs	Undated
	3	NASA Photographs	Undated
	4	NASA Photographs	Undated
	5	NASA Photographs	Undated
	6	Brussels University Medical Faculty Photographs	Oct1-3, 1962
	7	Personal Color Russia Photographs	Undated
	8	Personal Black and White Russia Photographs	Undated
	9	Presentation Photos	Jan 1960
	10	Presentation Photos	Jan 1960
	11	Presentation Photos	Jan 1960
	12	Dr. Stanley C. White Official Photographs	Undated
	13	Award Photographs	Sep 24, 1965, Undated
	14	Office of the Secretary of Defense Retirement Photos	Jan 1977
	15	Presentation Negatives	Undated
	16	Cell Negatives	Undated
15	1	Pictures Basic Course Aviation Medicine Randolph Air Force Base, Texas Scrapbook	1951-1952
		Subseries IVB: Transparencies	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
16	1	NASA Overhead Projections	Undated
	2	Overhead Projection Slides for Applications of Bioastronautics to Medicine Presentation	Sep 15, 1971

	3	Overhead Projection Slides for Applications of Bioastronautics to Medicine Presentation	Sep 15, 1971
	4	Overhead Projection Slides for Applications of Bioastronautics to Medicine Presentation	Sep 15, 1971
Subseries IVC: Slides			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
17	1	Personal and Travel Slides	1950-1962
18	1	Presentation Slides	1986-1988, Undated
19	1	Glass Lantern Slides: Man in Space Flight	Undated
	2	Glass Lantern Slides: Mercury, Gemini, and Apollo Life Support Presentation	1962-1963
	3	Glass Lantern Slides: Space Medicine Manned Orbiting Laboratory Presentation	Undated
20	1	Glass Lantern Slides: Space Exploration Preparation Facilities and Devices	Undated
	2	Glass Lantern Slides: Space Exploration, Biology and Guidelines	Undated
Subseries IVD: Memorabilia			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
21	1	Foundations of Space Biology and Medicine	1974
	2	Moscow Summer Olympics Medal	1980
	3	6 Soviet Medals for Apollo/Soyuz Mission	1975
	4	Skylab Medallion	Aug 30, 1975
	5	Skylab Medallion	May 6, 1974
	6	Skylab Pin	Undated
	7	Olympic Pin	Undated
	8	NASA Space Medicine Archives Tape 1	Apr 26, 1981
	9	NASA Space Medicine Archives Tape 2	Apr 26, 1981