

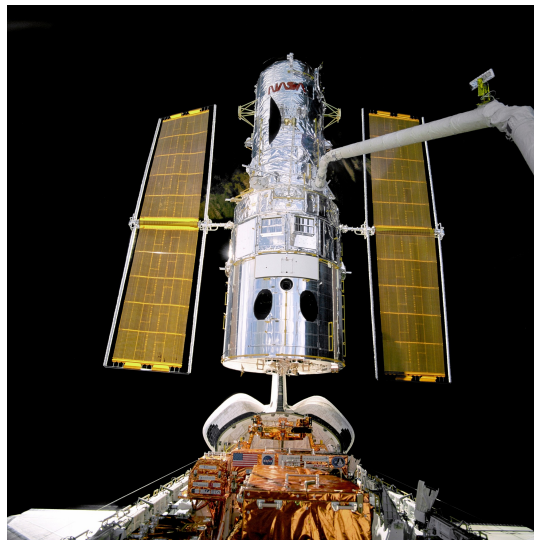


Smithsonian  
*National Air and Space Museum*

Space Telescope History Project

Mark Kahn

2008



National Air and Space Museum Archives  
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Chantilly, VA 20151  
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<https://airandspace.si.edu/archives>

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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Space Telescope History Project
<b>Identifier:</b>	NASM.1999.0035
<b>Date:</b>	1983-1991
<b>Extent:</b>	3.7 Cubic feet (15 cassette boxes; 5 letter-size document boxes)
<b>Creator:</b>	National Air and Space Museum (U.S.). Division of Space History
<b>Language:</b>	English .
<b>Summary:</b>	This collection consists of the oral history transcripts and related research documentation for the Space Telescope History Project (STHP), which examined the space sciences, predominantly astronomy, viewed through the lens of a particular undertaking, the Hubble Space Telescope, 1970s-1980s.

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## Administrative Information

### Acquisition Information

Department of Space History, NASM, Transfer, 1999, 1999-0035, Varies.

### Processing Information

Arranged and described by Mark Kahn, 2008.

Encoded by Amanda Buel, 2014.

### Preferred Citation

Space Telescope History Project, Acc. 1999-0035, National Air and Space Museum, Smithsonian Institution.

### Restrictions

Some restrictions apply; see permission forms in the collection accession file.

### Conditions Governing Use

Material is subject to Smithsonian Terms of Use. Should you wish to use NASM material in any medium, please submit an Application for Permission to Reproduce NASM Material, available at [Permissions Requests](#).

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## Biographical / Historical

This collection contains the interviews for the Space Telescope History Project. These interviews examine the early planning and development of what would eventually be known as the Hubble Space Telescope (HST). The period covered is from the 1970s into the 1980s. This project constitutes one of several oral history projects carried out within the National Air and Space Museum's (NASM) Department of Space History. This interview set consists of over 235 hours of interviews with 94 individuals. Please note that there are a few instances where audio cassette tapes of the interview subjects exist but without written transcripts while there are a few cases of existing transcripts of the interviews without any audio cassette tapes. Those interviewed include astronomers, scientists, engineers, as well as administrators, all of whom were involved in the space telescope project. The following were interviewed for this project: Bob Adams, Ken Ando, Marcel Aucremanne, John N. Bahcall, Neta Bahcall, William Baum, Michael J.S. Belton, Marc Bensimon, Livingston Biddle, Robert C. Bless, Greg Boeshaar, Albert Boggess, III, John Brandt, Robert A. Brown, Bert Bulkin, Margaret E. Burbridge, J.J. Caldwell, Frank Carr, Clark R. Chapman, John Clark, Art Code, Frank V. Costa, Allan Cree, E.G. Danielson, Arthur Davidsen, Mike Disney, James A. Downey, III, Roger Doxsey, Frank K. Edmondson, James L. Elliot, Garvin Emmanuel, William G. Fastie, George Field, Don Fordyce, Laurence W. Fredrick, Riccardo Giaconi, Alan Goldberg, Edward Groth, Arun K. Guha, Don Hall, Richard Harms, Kitty Havens, Richard Henry, Noel Hinnners, Donald Hunten, William W. Keathley, Warren J. Keller, Sam Keller, Ivan King, A.L. Lane, Barry Lasker, Robin J. Laurance, David Leckone, Malcolm Longair, John L. Lowrance, Duccio Macchetto, Bruce McCandless, Kent Meserve, Jesse L. Mitchell, Jim Moore, Max Nein, Don Noah, Memphis Norman, T. Bland Norris, James B. Odom, Jean R. Olivier, Charles Pellerin, Arthur J. Reetz, Jack Rehnberg, Evan Richards, Nancy Roman, James Rose, Jeffrey D. Rosendahl, Jane Russell, Ethan Schreier, Daniel J. Schroeder, Thomas J. Sherrill, Pete F. Simmons, Stanley Sobieski, Fred A. Speer, Lyman Spitzer, Peter Stockman, Ernst Stuhlinger, John Teem, Domenick Tenerelli, William G. Tift, Rodger Thompson, Robert Trevino, Hendrick C. van de Hulst, Edward Weiler, James C. Welch, James A. Westphal, Richard L. White and Ray Zedekar.

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## Scope and Contents

This collection consists of the oral history transcripts and related research documentation for the Space Telescope History Project (STHP), which examined the space sciences, predominantly astronomy, viewed through the lens of a particular undertaking, the Hubble Space Telescope, 1970s-1980s. The principal investigator for the STHP was Robert W. Smith, and the interview set contains 235 hours of interviews with 80 individuals. The central thread of this collection was the problem of configuring new political relations among the space sciences and sponsors. The following were interviewed: Bob Adams (with Robert Trevino and Kitty Havens); M. Aucremanne; John Bahcall; Neta Bahcall; William Baum; Michael Belton; March Bensimon; Robert Bless; Greg Boeshaar; Albert Boggess; John Brandt; Robert Brown; Bert Bulkin; Margaret Burbidge; J. J. Caldwell; Frank Carr; Clark Chapman; John Clark; Art Code; Frank Costa; E. G. Danielson; Arthur Davidsen; Mike Disney; John Downey; Rodger Doxsey; Frank Edmondson; James Elliot; Garvin Emanuel; William Fastie; Riccardo Giacconi; Alan Goldberg; Edward Groth; Arun Guha; Don Hall; Richard Harms; Richard Henry; Noel Hinnners; Donald Hunten; William Keathley; Warren Keller; Sam Keller; Ivan King; A.L. Lane; Barry Lasker; Robin Laurence; David Leckrone; Malcolm Longair; John Lowrance; Duccio Macchetto; Bruce McCandless; Kent Meserve; Jesse Mitchell; Jim Moore; Mas Nein; Don Noah; Memphis Norman; T. Bland Norris; James Odom; Jean Olivier; Charles Pellerin; Arthur Reetz; Jack Rehnberg; Evan Richards; Nancy Roman; James Rose; Jeffrey Rosendhal; Jane Russell; Ethan Schreier; Daniel Schroeder; Thomas Sherrill; F. Pete Simmons; Stanley Sobieski; Fred Speer; Lyman Spitzer; Peter Stockman; Ernst Stuhlinger; John Teem; Domenick Tenerelli; William Tift; Hedrick van de Hulst; Edward Weiler; James Welch; James Westphal; Richard White; and Ray Zedekar. The collection also contains the following documentation gathered from a variety of sources: photographs, slides, NASA

publications and reports, contractor reports and studies, press releases, and finding aids produced by the Space History Department, NASM.

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## Arrangement

The Space Telescope History History Project interviews are arranged alphabetically by interviewee. Boxes 1-14 contain interviews on audio cassette tapes. These tapes have yet to be remastered and, due to their fragility, are not available to researchers. Boxes 15-20 contain the transcripts for these cassette tapes. Most of these transcripts are available to researchers though, restrictions are placed on a small number of them. A NASM staff member will advise the patron which transcripts are available for copying and/or viewing and how to order copies of transcripts. Transcripts with user restrictions are highlighted in **bold** type.

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## General

Additional material: This collection consists only of the interview transcripts, not the tapes. The tapes are housed in the National Air and Space Museum Department of Space History.

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Astronautics
- Astronomy
- Space sciences
- Telescopes

Types of Materials:

- Photographs
- Press releases
- Publications
- Reports
- Slides (photographs)
- Transcripts

Names:

- Adams, Robert
- Aucremanne, M.
- Bahcall, John N.
- Bahcall, Neta
- Baum, William
- Belton, M. J. S.
- Bensimon, March
- Bless, Robert, 1927-
- Boeshaar, Greg

Boggess, Albert  
Brandt, John C.  
Brown, Art  
Brown, Robert A.  
Bulkin, Bert  
Burbidge, E. Margaret  
Caldwell, J. J.  
Carr, Frank  
Chapman, Clark R.  
Clark, John  
Costa, Frank  
Danielson, E. G.  
Davidsen, Arthur Falnes, 1944-  
Disney, Michael  
Downey, John  
Doxsey, Rodger E.  
Edmondson, Frank K. (Frank Kelly)  
Elliot, James, 1943-2011  
Emanuel, Garvin  
Fastie, William  
Giacconi, Riccardo  
Goldberg, Alan  
Groth, Edward  
Guha, Arun  
Hall, Donald N. B.  
Harms, Richard  
Havens, Kitty  
Henry, Richard B. C.  
Hinnens, Noel W.  
Hulst, H. C. van de (Hendrik Christoffel), 1918-  
Hunten, Donald M.  
Keathley, William  
Keller, Sam  
Keller, Warren  
King, Ivan R.  
Lane, A. L.  
Lasker, Barry M.  
Laurence, Robin  
Leckrone, David  
Longair, M. S., 1941-  
Lowrance, John  
Macchetto, F.  
McCandless, Bruce  
Meserve, Kent  
Mitchell, Jesse  
Moore, Jim  
National Air and Space Museum (U.S.). Division of Space History  
National Air and Space Museum. Department of Space History  
Nein, Mas  
Noah, Don  
Norman, Memphis  
Norris, T. Bland  
Odom, James  
Olivier, Jean

Pellerin, Charles  
Reetz, Arthur  
Rehnberg, Jack  
Richards, Evan  
Roman, Nancy Grace, 1925-  
Rose, James  
Rosendhal, Jeffrey D.  
Russell, Jane  
Scherrill, Thomas  
Schreier, Ethan  
Schroeder, D. J.  
Simmons, F. Pete  
Smith, Robert W. (Robert William), 1952-  
Sobieski, Stanley  
Space Telescope History Project (U.S.)  
Speer, Fred  
Spitzer, Lyman, 1914-  
Stockman, Peter  
Stuhlinger, Ernst, 1913-  
Teem, John  
Tenerelli, Domenik  
Tift, William G.  
Trevino, Robert  
Weiler, Edward  
Welch, James  
Westphal, James  
White, Richard Lee, 1953-  
Zedekar, Ray

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## Container Listing

Box 1, Cassette 1	Adams, Trevino and Havens, January 9, 1986
Box 1, Cassette 2	Aucremanne, November 21, 1983
Box 1, Cassette 3	John N. Bahcall, November 3, 1983
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Box 1, Cassette 6	John N. Bahcall, March 22, 1984
Box 1, Cassette 7	John N. Bahcall, March 28, 1984
Box 1, Cassette 8	John N. Bahcall [tape 1 of 2], August 26, 1992
Box 1, Cassette 9	John N. Bahcall [tape 2 of 2], August 26, 1992
Box 1, Cassette 10	Neta Bahcall [tape 1 of 2], March 27, 1985
Box 1, Cassette 11	Neta Bahcall [tape 2 of 2], March 27, 1985
Box 1, Cassette 12	John N. Bahcall [tape 1 of 2], February 25, 1992
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Box 3, Cassette 9	Frank Carr [tape 1 of 2], May 29, 1986

Box 3, Cassette 10	Frank Carr [tape 2 of 2], May 29, 1986
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Box 4, Cassette 7	Arthur Davidsen, January 29, 1984
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Box 5, Cassette 1	Riccardo Giacconi, July 12, 1976
Box 5, Cassette 2	Riccardo Giacconi, February 13, 1979
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Box 5, Cassette 4	Riccardo Giacconi [tape 1 of 2], January 25, 1984
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Box 5, Cassette 6	Alan Goldberg [tape 1 of 3], April 23, 1985
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Box 12, Cassette 9	John Teem [tape 2 of 2], October 4, 1984
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Box 14, Cassette 7	James A. Westphal [tape 3 of 3], September 27, 1991
Box 14, Cassette 8	Richard L. White, April 6, 1984
Box 14, Cassette 9	Ray Zedekar , January 8, 1986
Box 15, Folder 1	<b>Bob Adams, Robert Trevino, Kitty Havens (restricted)</b> , January 9, 1986
Box 15, Folder 2	<b>Ken Ando (restricted)</b> , August 19, 1991
Box 15, Folder 3	<b>Marcel Aucremanne (restricted)</b> , November 21, 1983
Box 15, Folder 4	John N. Bahcall, November 3, 1983
Box 15, Folder 5	John N. Bahcall, December 20, 1983
Box 15, Folder 6	John N. Bahcall, March 22, 1984
Box 15, Folder 7	John N. Bahcall, March 28, 1984
Box 15, Folder 8	John N. Bahcall, August 26, 1992
Box 15, Folder 9	<b>Neta Bahcall (restricted)</b> , March 27, 1985
Box 15, Folder 10	<b>William Baum (restricted)</b> , June 22, 1986

Box 15, Folder 11      **Michael J.S. Belton (restricted)**, October 11, 1984

Box 15, Folder 12      **Michael J.S. Belton (restricted)**, December 12, 1984

Box 15, Folder 13      **Marc Bensimon (restricted)**, October 5, 1983

Box 15, Folder 14      **Marc Bensimon (restricted)**, December 5, 1983

Box 15, Folder 15      Livingston Biddle, November 29, 1993

Box 15, Folder 16      Robert C. Bless, November 3, 1983

Box 15, Folder 17      **Robert C. Bless (restricted)**, November 11, 1986

Box 15, Folder 18      Robert C. Bless, September 25, 1991

Box 15, Folder 19      **Greg Boeshaar (restricted)**, May 20, 1986

Box 15, Folder 20      **Albert Boggess, III (restricted)**, April 20, 1984

Box 15, Folder 21      **John Brandt (restricted)**, May 15, 1989

Box 15, Folder 22      Robert A. Brown, April 3, 1984

Box 15, Folder 23      Robert A. Brown, June 7, 1984

Box 15, Folder 24      Bert Bulkin, January 11, 1985

Box 15, Folder 25      **Margaret E. Burbidge (restricted)**, November 29, 1984

Box 16, Folder 1      J. J. Caldwell, October 1, 1984

Box 16, Folder 2      **Frank Carr (restricted)**, March 7, 1984

Box 16, Folder 3      **Frank Carr (restricted)**, May 29, 1986

Box 16, Folder 4      Clark R. Chapman, October 10, 1984

Box 16, Folder 5      **John Clark (restricted)**, May 15, 1987

Box 16, Folder 6      **Art Code (restricted)**, February 21, 1984

Box 16, Folder 7      **Frank V. Costa (restricted)**, March 31, 1989

Box 16, Folder 8      **Allan Cree (restricted)**, May 8, 1989

Box 16, Folder 9      E. G. Danielson, September 27, 1985

Box 16, Folder 10     Arthur Davidsen, January 29, 1984

Box 16, Folder 11     Mike Disney, May 1, 1984

Box 16, Folder 12     **James A. Downey, III (restricted)**, January 18, 1984

Box 16, Folder 13     Rodger Doxsey, July 22, 1987

Box 16, Folder 14     Rodger Doxsey, June 19, 1992

Box 16, Folder 15     Frank K. Edmondson, June 8, 1984

Box 16, Folder 16     **James L. Elliot (restricted)**, November 21, 1984

Box 16, Folder 17     Garvin Emanuel, December 2, 1985

Box 16, Folder 18     William G. Fastie, June 4, 1986

Box 16, Folder 19     **George Field (restricted)**, March 10, 1986

Box 16, Folder 20     Don Fordyce, October 31, 1983

Box 16, Folder 21     Laurence W. Fredrick , May 2, 1986

Box 16, Folder 22     **Riccardo Giacconi (restricted)**, January 25, 1984

Box 17, Folder 1      **Alan Goldberg (restricted)**, April 23, 1985

Box 17, Folder 2      **Alan Goldberg (restricted)**, May 1, 1985

Box 17, Folder 3      **Alan Goldberg (restricted)**, October 21, 1985

Box 17, Folder 4      Edward Groth, March 15, 1984

Box 17, Folder 5      **Arun K. Guha (restricted)**, July 26, 1983

Box 17, Folder 6      **Don Hall (restricted)**, March 3, 1984

Box 17, Folder 7      **Richard Harms (restricted)**, May 26, 1987

Box 17, Folder 8      **Richard Henry (restricted)**, November 29, 1983

Box 17, Folder 9      Noel Hinnens, October 17, 1984

Box 17, Folder 10     Noel Hinnens, November 16, 1984

Box 17, Folder 11     Noel Hinnens, December 4, 1984

Box 17, Folder 12     Donald Hunten, December 14, 1984

Box 17, Folder 13     **William W. Keathley (restricted)**, December 5, 1984

Box 17, Folder 14     **Warren J. Keller (restricted)**, November 28, 1984

Box 17, Folder 15     **Warren J. Keller (restricted)**, December 9, 1985

Box 17, Folder 16     **Sam Keller (restricted)**, December 15, 1983

Box 17, Folder 17     Sam Keller, February 11, 1985

Box 17, Folder 18     **Ivan King (restricted)**, May 2, 1984

Box 17, Folder 19     **A. L. Lane (restricted)**, October 9, 1984

Box 18, Folder 1      **Barry Lasker (restricted)**, December 8, 1983

Box 18, Folder 2      Robin J. Laurance, May 26, 1983

Box 18, Folder 3      David Leckrone, August 14, 1984

Box 18, Folder 4      Malcolm Longair, June 14, 1984

Box 18, Folder 5      John L. Lowrance, March 28, 1985

Box 18, Folder 6      **Duccio Macchetto (restricted)**, April 10, 1984

Box 18, Folder 7      **Bruce McCandless (restricted)**, January 9, 1986

Box 18, Folder 8      **Kent Meserve (restricted)**, November 1, 1983

Box 18, Folder 9      **Jesse L. Mitchell (restricted)**, December 10, 1984

Box 18, Folder 10	<b>Jim Moore (restricted)</b> , May 18, 1987
Box 18, Folder 11	Max Nein, June 5, 1984
Box 18, Folder 12	<b>Don Noah (restricted)</b> , January 8, 1986
Box 18, Folder 13	Memphis Norman, September 6, 1984
Box 18, Folder 14	<b>T. Bland Norris (restricted)</b> , April 19, 1984
Box 18, Folder 15	James B. Odom, February 26, 1985
Box 18, Folder 16	<b>James B. Odom (restricted)</b> , January 7, 1987
Box 18, Folder 17	Jean R. Olivier, January 18, 1984
Box 18, Folder 18	<b>Jean R. Olivier (restricted)</b> , January 8, 1987
Box 18, Folder 19	<b>Charles Pellerin (restricted)</b> , August 1, 1983
Box 18, Folder 20	Arthur J. Reetz, June 27, 1983
Box 18, Folder 21	Arthur J. Reetz, September 21, 1983
Box 18, Folder 22	Jack Rehnberg , November 1, 1983
Box 19, Folder 1	Evan Richards, February 20, 1984
Box 19, Folder 2	<b>Evan Richards (restricted)</b> , June 11, 1992
Box 19, Folder 3	Nancy Roman, February 3, 1984
Box 19, Folder 4	<b>James Rose (restricted)</b> , July 14, 1987
Box 19, Folder 5	Jeffrey D. Rosendahl , September 12, 1984
Box 19, Folder 6	Jeffrey D. Rosendahl, October 1, 1984
Box 19, Folder 7	Jeffrey D. Rosendahl, December 23, 1985
Box 19, Folder 8	Jane Russell, December 18, 1984

Box 19, Folder 9 Ethan Schreier, July 6, 1987

Box 19, Folder 10 Daniel J. Schroeder, October 7, 1985

Box 19, Folder 11 **Thomas J. Sherrill (restricted)**, September 24, 1985

Box 19, Folder 12 **Thomas J. Sherrill (restricted)**, July 21, 1986

Box 19, Folder 13 Pete F. Simmons, September 10, 1984

Box 19, Folder 14 Stanley Sobieski, February 8, 1985

Box 19, Folder 15 **Fred A. Speer (restricted)**, February 26, 1985

Box 19, Folder 16 Lyman Spitzer, October 27, 1983

Box 19, Folder 17 Lyman Spitzer, March 7, 1984

Box 19, Folder 18 Peter Stockman, February 15, 1985

Box 19, Folder 19 Ernst Stuhlinger, April 2, 1984

Box 19, Folder 20 **John Teem (restricted)**, September 26, 1984

Box 19, Folder 21 **John Teem (restricted)**, October 4, 1984

Box 20, Folder 1 **Domenick Tenerelli (restricted)**, January 11, 1985

Box 20, Folder 2 **Domenick Tenerelli (restricted)**, December 23, 1985

Box 20, Folder 3 **Domenick Tenerelli (restricted)**, December 27, 1985

Box 20, Folder 4 **Domenick Tenerelli (restricted)**, December 31, 1985

Box 20, Folder 5 **Domenick Tenerelli (restricted)**, January 16, 1986

Box 20, Folder 6 **Domenick Tenerelli (restricted)**, October 13, 1988

Box 20, Folder 7 **William G. Tiftt (restricted)**, December 13, 1984

Box 20, Folder 8 **Rodger Thompson (restricted)**, June 5, 1992

Box 20, Folder 9 Hendrick C. van de Hulst, May 27, 1983

Box 20, Folder 10	<b>Edward Weiler (restricted)</b> , October 20, 1983
Box 20, Folder 11	Edward Weiler, February 11, 1986
Box 20, Folder 12	<b>Edward Weiler (restricted)</b> , March 9, 1987
Box 20, Folder 13	Edward Weiler, March 17, 1986
Box 20, Folder 14	James C. Welch, August 20, 1984
Box 20, Folder 15	James C. Welch, February 12, 1987
Box 20, Folder 16	James A. Westphal, September 28, 1985
Box 20, Folder 17	James A. Westphal, May 15, 1987
Box 20, Folder 18	<b>James A. Westphal (restricted)</b> , September 27, 1991
Box 20, Folder 19	Richard L. White , April 6, 1984
Box 20, Folder 20	Ray Zedekar, January 8, 1986