FINDING AID FOR THE
CHESTER A. VAUGHAN PAPERS, 1974-1991 (#2013-0012)

Contact Information:
University of Houston-Clear Lake Archives
Neumann Library
2700 Bay Area Blvd.
Houston TX 77058
Phone: 281-283-3936
Email: archives@uhcl.edu
URL: www.uhcl.edu/library

Descriptive Summary
Repository: UHCL Archives
Collection #: JSC History Collection
Title: Chester A. Vaughan Papers
Creator: Chester A. Vaughan
Inclusive Dates: 1974-1991
Extent: 6 boxes, 3.0 linear ft.
Language: English

Administrative Information
Restrictions on Access: None
Restrictions on Use: None
Acquisition Information: Donated by Chester Vaughan on September 4, 2013
Processed by: UHCL Archives Staff

Related Material: Chester A. Vaughan Oral History Interview, conducted on January 12, 1999, NASA Johnson Space Center History Office. Transcript available online at https://historycollection.jsc.nasa.gov/JSCHistoryPortal/history/oral_histories/VaughanCA/VaughanCA_1-12-99.htm

Biographical/Historical Note

Chester A. Vaughan (who goes by “Chet”) graduated from Virginia Polytechnic Institute and State University in 1959 with a Bachelor of Science degree in Mechanical Engineering. In 1955, he joined NASA at the Langley Research Center at Langley Field, Virginia. Vaughan worked in the Cooperative Education Program and the Space Vehicle Group, Applied Materials and Physics, until 1961. Then, Vaughn joined the new NASA Manned Spacecraft Center (later Johnson Space Center) in Houston, Texas. For a number of years, he worked as a senior engineer.

Vaugn served as the deputy director of engineering at Johnson Space Center from October 1993 to January 1995. From December 1991 to October 1993, he served as the chief of the Propulsion and Power Division at JSC; and from January to December 1991, he served as the chief engineer in the Office of Space Flight at NASA Headquarters, Washington, DC. Vaughn was named to the newly created post of chief engineer for the International Space Station Program at JSC in January 1995.

Vaughan retired in 1996 from NASA as Chief Engineer, Space Station Program. Around 2013, Vaughan worked as a consultant for Boeing on the International Space Station.

Scope and Content

This collection is composed of technical reports, presentations, white papers, summaries, analyses, and correspondence regarding Dr. Chester A. Vaughan's work at NASA from 1974 to 1994.

Arrangement: Two series - chronological files and oversize/other media

Inventory

Box	FF		Series	Dates
1	1		Rockwell International-Contract NAS 9-14000, General Guidelines for Establishment, Expansion, and Management of Orbiter Repair Depots	February 27, 1985
	2		Transition of (Kennedy Space) Center Roles for STS Operations	May 7, 1985
	3		White paper—Orbiter Engineering Responsibility for Operations	c.1991
	4		Apollo/Saturn Propulsion Summary	February 25, 1991
	5		Facilities at Johnson Space Center	March 4, 1991
	6		Advisability of Using Composite Material	May 16, 1991
	7		M & P Laboratory Failure Analysis Approach	June 11, 1991
	8		Orbiter Project Efficiency Improvement Assessment	September 27, 1991
	9		Logistics Management and Interfaces Subteam Report to the Space Shuttle Process Improvement Team	January 21, 1992
	10		Logistics Management and Interfaces Subteam Report to the Space Shuttle Process Improvement Team	January 21, 1992
	11		Shuttle Operations Process Improvement Team	1991-1992
	12		Option C: Space Station Presentations/Transparencies	c. 1993
	13		Optically Stimulated Emission (OSEE) for Surface Cleanliness Inspection	January 1993
	14		Environmental Resources of Johnson Space Center—Brown and Root	February 1993
	15		Single Launch Core Station Status Briefing to Blue Ribbon Panel	April 22, 1993
	16		Technology Upgrades and Research	May 1993
	17		Wingless Orbiter	May 1, 1993
	18		Option C: Single Launch Core Station (SLCS)-Final Report to Station Redesign Team (SRT) Vol. 1: Option C Summary Results	May 20, 1993
	19		Option C: Single Launch Core Station	May 22, 1993
	20		Option C: Single Launch Core Station Timelines	May-June 1993
	21		Space Station Redesign Team—Final Report to the Advisory Committee on the Redesign of the Space Station	June 1993
2	1		Option C: Charts for the Blue Ribbon Panel Briefing	June 7, 1993
	2		Single Launch Core Station Option C Presentations Folder 1/2	June 11, 1993
	3		Single Launch Core Station Option C Presentations Folder 2/2	June 11, 1993
	4		Rockwell International Correspondence/Presentation to Daniel S. Goldin	July 26, 1993
	5		Grumman Transition Concept: A Plan for Space Station Success	July 27, 1993
	6		Space Station Prime Contractor Management Incentive Plan	July 27, 1993
	7		Russian Space Station Infrastructure Applications to the U.S. Space Station	August 11, 1993
	8		Access to Space-Option 1	August 24, 1993

	9		JSC Engineering Directorate-Space Station Activities	September 1993
	10		FGB Salyut Energy Block Propulsion System	October 13, 1993
	11		Correspondence-Jim Valentine	November 1, 1993
	12		Center Rules and Mission Review-Items 11, 13 by Warren Brasher	November 3, 1993
	13		Protocol of the Docking Team	November 16, 1993
	14		MSFC Location and Facility Maps	c. 1994
	15		Reorganization-Engineering Directorate, Mission Operations Directorate, Flight Projects Office, General	c. 1994
3	1		Correspondence	1994
	2		MSFC Procurement Office Streamlining Initiatives	1994
	3		TTA Lockheed Briefing	1994
	4		International Space Station Alpha System Design Review, Folder 1/2	March 1994
	5		International Space Station Alpha System Design Review, Folder 2/2	March 1994
	6		System Engineering Transition Team Report	June 8, 1994
	7		Aeroscience and Flight Mechanics	June 16, 1994
	8		Avionics Transition Team Report	June 16, 1994
	9		Marshall Space Flight Center-Information	c. July 1994
	10		White Paper on How to Improve NASA's Experience Base with Note from Brant Adams Dated July 5, 1994	July 5, 1994
	11		NASA Continual Improvement Plan	August 1994
	12		Laboratory Support for International Space Station Alpha	August 1994
	13		Reusable Launch Vehicle Concepts Study-Steering Committee Meeting	August 2, 1994
	14		Explanation of MSFC “Product Charts”	August 4, 1994
	15		Future Spacecraft	August 4, 1994
	16		Marshall Space Flight Center-Science and Engineering Information	August 4, 1994
	17		Payload Utilization	August 4, 1994
	18		Program Development-Advanced Transportation Technology Office	August 4, 1994
	19		Space Station Engineering Overview-Briefing to General Dailey	August 4, 1994
	20		Science and Engineering Directorate-Space Science-Presentation to General John R. Dailey	August 4, 1994
	21		Agenda for General Dailey (First Day)	August 4-5, 1994
4	1		Space Shuttle Program FY 1996 OSF Recommendation Briefing to Deputy Administrator	August 15, 1994
	2		Office of Space Flight, International Space Station Alpha, US/Russian Cooperative Program, FY 1996 Budget	August 15, 1994
	3		Office of Space Flight, Institutional Budget FY 1996	August 15, 1994
	4		Office of Space Flight, Space Operations Utilization, FY 1996 Budget to Code A Senior Management	August 15, 1994
	5		Office of Space Flight, FY 1996 Budget Recommendation to Code A Senior Management Team	August 15, 1994
	6		Office of Space Flight, FY1996 Budget Recommendation to Code A Senior Management Team—Follow-up/Discussion	August 15, 1994
	7		MSFC Equal Opportunity Office	October 1994
	8		MSFC Space Shuttle Projects Overview	October 1994
	9		Space Shuttle: Helping the World Achieve Its Potential in Space Rockwell Aerospace	October 1994

	10		Institutional and Program Support (I & PS)	October 4, 1994
	11		International Space Station Alternative Design	c. February 1994
	12		Preliminary International Space Station Backup Position Cost	February 22, 1994
	13		Liquid Flyback Booster (LFBR) Assessment-Final Presentation to JSC Director	March 29, 1994
	14		NASA Commercial Terminology Agenda for Change	July 1994
	15		JPL All Hands Meeting-Pasadena, CA	September 22, 1994
	16		Materials and Processes Laboratory-EH01	October 21, 1994
	17		Role of Office of Chief Counsel	October 28, 1994
	18		Payload Projects Office-JA01	October 31, 1994
5	1		MSFC Procurement Office Functional Management Review	November 1994
	2		1993-1994 NASA Continual Improvement External Assessment Team Consensus Report-Evaluation Summary	November 1994
	3		MSFC Safety and Mission Assurance Office	November 1994
	4		Science and Applications Projects Office Overview	September 1994
	5		MSFC Overview	September 1994
	6		Marshall Products Supporting the NASA Strategic Enterprises	September 12, 1994
	7		Proposed Space Shuttle Strategy and Implementation Plan in Response to the National Space Transportation Policy	September 21, 1994
	8		MSFC-Safety and Mission Assurance Office Resource Requirements Review	October 1994
	9		Office of the Center Comptroller Presentation	November 4, 1994
	10		Payload Projects Office Manpower Data FY 1995	November 9, 1994
	11		Marshall Space Flight Center Technology Transfer Office Overview	November 15, 1994
	12		Selected Aspects of Logistical Support for the Solid Rocket Booster and Redesigned Solid Rocket Motor Projects-Discussion Draft Audit Report	November 17, 1994
	13		Draft of the Fifth Report of the NAC Task Force on the Shuttle-MIR Rendezvous and Docking Missions	August 1995
	14		Marshall's Guiding Principles Sheet	ND
	15		Atlas 3 Information Sheets	ND
	16		Marshall Space Flight Center-Space Science Laboratory Booklet	ND
	17		Express Rack-Expedite the Processing of Experiments to Space Station	ND
	18		Single Launch Core Station Figures	ND
6	1		Booklet: NPO Energomash: A Leader in Liquid-Fueled Rocket Technology	ND
	2		Focus on the Future-Productivity Enhancement Complex at MSFC	ND
	3		Manned Spacecraft Propulsion at JSC	ND
	4		Option C-Space Station Freedom	ND
	5		Library Systems-Option C	ND
	6		Advanced X-Ray Astrophysics Facility	ND
	7		Space Station Question/Answer Analysis	ND
	8		White Paper on Civil Service/Contractor Mix	ND
	9		Engineering Transition Planning Team - Manufacturing and Process Technology Team	ND

	10		Option C - Single Launch Core Station Images	ND
	11		Poster - The World's Commercial Launch Vehicles - Vitro Corporation	January 1991
	12		Book - NIOSH/OSHA Pocket Guide to Chemical Hazards	September 1978
	13		Video tape - The Eagle and the Bear, Dateline: 1961, Into Orbit	May 5, 1989