

## **FINDING AID FOR THE ALECK C. BOND PAPERS, 1961-1987 (#2006-0007)**

### **Contact Information:**

University of Houston-Clear Lake Archives  
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### **Descriptive Summary**

**Repository** (049) UHCL Archives, Human Space Flight Collection

**Collection #** (099) 2006-0007

**Title** (245) Aleck C. Bond Papers

**Creator** (100/110) Bond, Aleck C.

**Inclusive Dates:** 1961-1987

**Bulk Dates:** 1983-1986

**Extent** (300): 3 boxes (1.5 linear feet)

**Language** (546): English

### **Administrative Information**

**Restrictions on Access** (506) None

**Restrictions on Use** (540) None

**Acquisition Information** (541)

Aleck C. Bond donated this collection of personal papers on May 25, 2006.

**Processed by** (583) Shelly Kelly

**Preferred Citation** (524)

Aleck C. Bond Papers (#2006-0007), University of Houston-Clear Lake Archives.

### **Biographical/Historical Note (545)**

Aleck C. Bond received his BS in Aeronautical Engineering from Georgia Institute of Technology in Atlanta, Georgia, in 1943. Unable to obtain a commission in the military because of poor eyesight, he worked for Bell Aircraft Company in Marietta, Georgia as a Wing Design and Liaison Engineer for the B-29. He was inducted into the US Army in late 1945 and served for several months in the separation center. After a delayed basic training, he was stationed with the Army Air Corps at Wright-Patterson Air Force Base in Dayton, Ohio. There he worked on the Vertical Wind Tunnel where he was exposed to "Operation Paper Clip" and met Dr. Bernard Goethert.

After his discharge, he returned to Georgia Institute of Technology where he received his MS in Aeronautical Engineering in 1948.

From 1948-1958 he worked in the Pilotless Aircraft Research Division (PARC) at NACA Langley Research Center where he met Dr. Robert Gilruth and Maxime Faget. In 1958 he was invited to join the Space Task Group as a project engineer responsible for creating the Mercury heat shield. He became the head of the Performance Branch in the Flight Systems Division (1959-1960). He moved to Houston with the creation of the Manned Spacecraft Center. He became Assistant Chief, Flight Systems Division (1960-1962), Chief, Systems Evaluation and Development Division (1962-1963), Manager, Systems Test and Evaluation (1963-1967), Manager, Flight Safety and Reliability and Quality Assurance Offices (1967-1968), Assistant Director, Chemical and Mechanical Systems (1968-1975), and Assistant Director, Program Support (1975-1982).

Bond retired from NASA in January 1982 and went to work for the University of New Mexico Technology Utilization office, where he provided NASA technology solutions to outside entities. While working for UNM, Bond also took on small consulting work for Eagle Engineering. In 1984 he left the University of New Mexico to join Eagle Engineering full-time. He also served on their board of directors. He retired again in 1995 or 1996.

### **Scope and Content (520)**

This collection represents the material Mr. Bond gathered for his personal files outside of his work papers, which were donated to the JSC History Collection. The bulk of the collection addresses his work with Eagle Engineering, Inc. as an Industrial Space Facility project manager. The Industrial Space Facility was conceived by Maxime Faget, founder and president of Space Industries, Inc. as a commercial alternative to the faltering Space Station Freedom project. Other small groups of documents collected from his years with NASA may have been used as reference materials while working on the Industrial Space Facility.

The Space Task Group group came from his personal notebook and files and were re-housed in exact order with the same headings.

#### **Index Terms (6xx):**

##### Personal Names

- Beers, Chuck
- Bond, Aleck C.
- Faget, Maxime A.
- Johnson, Caldwell C.
- Lilly, Douglas S.

##### Corporate Names

- Eagle Engineering, Inc.
- Manned Spacecraft Center (U.S.)
- Space Industries, Inc.
- United States. National Aeronautics and Space Administration. Space Task Group

##### Subjects

- Industrial Space Facility
- Space Simulation

**Arrangement (351)** Organized in six groups, arranged alphabetically.

**Related Material (544)** Aleck C. Bond's working papers from NASA were donated and processed to the JSC History Collection, Center Series, Aleck C. Bond Papers, housed at UHCL through a renewable Memorandum of Understanding (2001-2011). This collection comprises of

35 groups and measures 14.5 linear feet. It covers Bond's NACA years 1949 through retirement in 1984.

Between August 25, 1998 and July 15, 1999, Aleck Bond participated in three oral histories with the JSC Oral History Project. Transcripts are available in PDF format online at [http://www.jsc.nasa.gov/history/oral\\_histories/BondAC/bondac.pdf](http://www.jsc.nasa.gov/history/oral_histories/BondAC/bondac.pdf) Audio CDs and paper transcripts are also available at the University of Houston-Clear Lake Archives.

The Office Files of Aleck C. Bond, 1962-1971, measuring one cubic foot, can be found in the Records of the Lyndon B. Johnson Space Center, Record Group 255, at the National Archives and Records Administration, Southwest Regional Facility located in Fort Worth, Texas.

## Inventory

<u>Box</u>	<u>Folder</u>	<u>Title</u>	<u>Dates</u>
1		<b>Eagle Engineering</b>	
	1	Assessment and Evaluation of Preparation and Plans for VLS Flight Readiness Firing for Lockheed Space Operations Co. Final report 85-114	Dec. 18, 1985
	2	Assessment and Evaluation of Preparations and Plans for VLS Flight Readiness Firing for Lockheed Space Operations Co. Briefing 85-115	Jan .8, 1986
	3	Correspondence with Space Industries, Inc. regarding Industrial Space Facility Design and Development Industrial Space Facility	1985-1987
	4	Brochures	nd
	5	Correspondence Design & Development	1983
	6-11	Engineering Report	1984-1986
	12	Development Notebook	1984-1986
2	1	Estimation of Pressure Hull Costs Notebook	July 8, 1983
	2	Statement of Work	1983
	3	Description Details	1983
	4	Design Requirements and Guidelines	1983
	5	Cost Model Data	1983
	6	Food and H2O Requirements	1983
	7	Personal Notes	1983
	8	Preliminary Plan for WBS 1.3 Design, Development, Manufacturing and Procurement/Costs; Requirements/ Criteria	April 14, 1983
	9	Selection of Materials for Space Station (WBS1.3)	July 29, 1983
	10	Space Platform – Tentative Plan	1983
	11	Space Station Design Requirements and Guidelines	July 8, 1983
	12	Spacelab Payload Mission Manager Verification Requirements for Instruments, Facilities, MPE, and ECE.	Sept. 1982
	13	Strawman RFP (Request for Proposal)	1988
	14	Verification & Certification	1986-1987
		<b>Engineering &amp; Development Directorate</b>	
	15	Core Capabilities & Resources	May-Jun 1979
3	1	Operational Funding of Major Facilities	May 10, 1977
	2	Personnel Requirements Summary	1963

**Manned Spacecraft Center**

- 3 Organization Functions Key Personnel March 1968
- 4 Organization Functions Key Personnel May 1971

**NASA Technical Memorandum**

- 5 TM-58248 Medical Operations and Life Sciences Activities on Space Station Oct. 1982
- 6 TM-18533 Toxicological Support Requirements for the Shuttle Transportation System (STS) 1983

**Space Simulation**

- 7 Articles/Clippings 1962-1963
- 8 FY75 Cost and Operations Summary Facilities of the Space Environment Test Division July 1, 1974- June 30, 1975
- 9 Simulation of Ionospheric Plasma in Large Thermal Vacuum Chamber c. 1978
- 10 Space Environment Test Division Facility Users Guide Nov. 1971

**Space Task Group**

- 11-12 Personal Notes 1961
- 13 Preliminary Study - Draft Sept 29, 1961
- 14 President's Message (Kennedy) Special Message by the President on Urgent National Needs before Joint Session of Congress May 25, 1961