

# **Guide to the George Alan Starr Papers, 1920-2008**

## **CV07-07**

**Finding aid prepared by Neil H. Teitelman**

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This finding aid was produced using the Archivists' Toolkit

April 05, 2011

Describing Archives: A Content Standard

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## Summary Information

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<b>Repository</b>	Special Collections Department, History of Aviation Collection
<b>Creator - Engineer</b>	Starr, George Alan, Mr., 1920-2008
<b>Title</b>	George Alan Starr Papers
<b>Date [bulk]</b>	Bulk, 1965-1985
<b>Date [inclusive]</b>	1952-1988
<b>Extent</b>	6.72 Linear feet (Fourteen manuscript boxes, one half size manuscript box and two non standard boxes (10.5x12.5x3).)
<b>Language</b>	English

### Citation

*George Alan Starr Papers*, Document name or type, Folder number, Box number, Series number, History of Aviation Collection, Special Collections Department, McDermott Library, The University of Texas at Dallas.

## Biographical Sketch

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George Allan Starr was born in Pleasantville, New Jersey on September 28, 1920. In 1942, he graduated from the Indiana Institute of Technology with a Bachelor of Science Degree in Aeronautical Engineering. Shortly after graduation, he joined Chance Vought Aircraft Corporation at Stratford Connecticut as a Structures Design Engineer. During 1945, Alan Starr was struck by spinal meningitis and experienced an immediate and permanent total hearing loss. He was able to recover from this setback by learning to read lips and continued his aeronautical career uninhibited. His developed expertise in lip reading enabled him to join Toastmasters International and he participated fully in this endeavor. His skills were acute to a point where he was able to critique the speeches of others although he was hearing impaired. Later in his career due to business activities with Aerospatiale, he collaborated and interfaced with the French. He learned to speak French and impressed his teacher by being able to incorporate the French dialect into his vocabulary.

Alan Starr received his Masters in Aeronautical Engineering in 1945 and his Doctorate in 1977 from Southern Methodist University (SMU) in Dallas, Texas. During the years 1942 through 1950, he was a Structures Design Engineer on various Chance Vought aircraft such as the famous World War II F4U Corsair, the XF5U-1 Flying Pancake, XF6U-1 Pirate (Chance Vought's first jet powered aircraft) and the F7U-1 Cutlass. His responsibilities encompassed propeller and gearbox loads and stress analysis, flight loads, wing, and fuselage structural design.

In 1950, he was assigned to Preliminary Design and was responsible for structural arrangements and analysis for advanced aircraft. During this time period, Alan Starr established a structures design team that responded to a U.S. Navy Request for Proposal (RFP) for a supersonic capable fighter aircraft. Subsequent conceptual design studies lead to the development of the XF8U-1 Crusader configuration which won the competition and in 1953 he was appointed as the Structures Project Engineer for this aircraft.

In 1955, Alan Starr was promoted to the position of Supervisor of the Structures Design Group. A year later, because of the emerging importance of technology research and development (R&D), he helped to form the nucleus of a newly formed technology R&D organization with initial responsibility for directing all research in structures design, structural mechanics, dynamics, and materials. During 1959, he assumed responsibility for the direction of all company sponsored and contract technology R&D. Also during this year, Alan Starr, in addition to his work responsibilities at Chance Vought, was appointed to a technical panel as an uncompensated consultant to the Materials Advisory Board of the National Academy of Sciences. This consulting relationship with the Materials Advisory Board continued for over ten years. In 1977, he was named Director, Engineering Technical Research and Development and later that year retired from this position.

During the course of that year, Alan Starr joined the Aerospatiale Helicopter Corporation (AHC), which was formerly the Vought Helicopter Corporation. He led the engineering effort in responding to an RFP from the U.S. Coast Guard for a short-range recovery helicopter. Aerospatiale won the competition and he was named Director of Engineering for the division responsible for engineering development

collaborating with the Aerospatiale Division in France. The first delivery of 96 helicopters designated the HH-65 Dolphin was made to the U.S. Coast Guard in 1984. He retired from AHC in 1987.

George Alan Starr passed away on February 23, 2008 in Bedford, Texas.

**Source**

*Alan Starr Papers*, Professional Goals Correspondence August 11, 1971, Folder 7, Box 6, Series II. Subseries 1., History of Aviation Collection, Special Collections Department, McDermott Library, The University of Texas at Dallas.

**Source**

Anonymous, Biography, *Vought Aircraft Retiree Club*, (Online) Undated. <http://www.voughtaircraft.com/heritage/peoplaces/html/bstarr.html> (accessed May 26, 2010).

**Source**

Anonymous, Obituary, *Fort Worth Star Telegram*, (Online) 26 February, 2008. <http://www.legacy.com/obituaries/DFW/obituary-preview.aspx?page=obitfinderorder&pid=104267623#ixzz12H35K9tZ> (accessed January 10, 2011).

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## Scope and Content

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This collection contains documents and records, correspondence, personal journals, manuals and reports, photographs, presentations, transparencies, charts and diagrams, clippings and articles, ephemera and memorabilia, and other materials that were created and/or collected by George Alan Starr during his work for Chance Vought Corporation and Aerospatiale Helicopter Corporation. The *George Alan Starr Papers* are housed in fourteen manuscript boxes, one half size manuscript box and two non-standard boxes (10.5x12.5x3) totaling 6.72 linear ft.

The collection arrived in good condition. It was packed and arranged by the donating party and the order was continued and maintained by the curator. The archivist identified three series with the first series being the Personal Papers Series which is further organized in four subseries: 1. Private Documents, 2. Business Documents, 3. Images, and 4. Articles and Personal Activities.

Subseries 1. consists of a fable written by Alan Starr, French class notes, a personal journal listing the books read by him, a series of journals noting personal reflections, objectives, ideas, business problems, and opportunities and a "*Aerospatiale*" Newsletter. Also included are a number of service recognition certificates, awards and plaques.

Subseries 2. contains appointment calendars, an executive summary response to a U.S. Coast Guard helicopter RFP, retirement ceremony booklet, service recognition citations and certificates and a symposium paper concerning titanium usage for high-speed hydrofoils co-authored by Alan Starr.

Subseries 3. includes images of retirement party, business meetings, and first delivery of U.S. Coast Guard 350D and HH65 helicopters.

Subseries 4. consists of a newsletter article about Chance Vought naval aircraft, Indiana Technical College alumni meeting letters and articles, and Elderhostel activities.

The second series being the Praxis Proposal which is organized in one subseries: 1. Documents

Subseries 1. consists of letters, memoranda and correspondence between Alan Starr and various personnel at Chance Vought Corporation and Southern Methodist University in order to pursue agreement and approval to commence studies to attain a Doctor of Engineering Degree. This series also contains documents related to technology management, assessment and marketing, computer based situation modeling, Department of Defense, National Science Foundation and Massachusetts Institute of Technology articles, booklets and budgets, research and development papers, class lecture notes, project management, and industry symposium ephemera.

The third and largest series being the Praxis Development that is organized in one subseries: 1. Documents.

Subseries 1. includes lecture notes from classes attended at Southern Methodist University, personal notes and observations while developing the content and structure of his thesis. Of interest is a series of presentations and reports proposing that Chance Vought consider decentralizing from its core aeronautical business and pursue opportunities in the field of alternative energy solutions. The research and preparation for these suggested alternate business pursuits are supported by documents, reports, articles, personal observations and notes. Overall this collection is primarily aligned towards Alan Starr's pursuit to attain his Doctorate in Aeronautical Engineering. On a smaller scale are various documents that relate to some general business activities and career service milestones while working at Chance Vought and Aerospatiale.

This collection does not contain any concept, engineering, drawings, development or technical documentation related to any specific aircraft or other aeronautical projects. The sole exception is an executive summary overview response to a U.S. Coast Guard new helicopter RFP.

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## Series Description

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The George Alan Starr Papers are arranged in three series:

***Series I. Personal Papers*** 2.14 linear ft. (one manuscript box and two non-standard boxes, 1952-1988.)

Arranged in five subseries: 1. Private Documents, 2. Business Documents, 3. Images, 4. Articles and Personal Activities and 5. Plaques and Awards.

***Subseries 1. Private Documents*** .04 linear ft. (five folders), 1952-1981.

Arranged in original order.

***Subseries 2. Business Documents*** .2 linear ft. (nine folders), 1965-1989.

Arranged in original order.

*Subseries 3. Images* .08 linear ft. (eleven folders), 1963-1983.

Arranged in original order.

*Subseries 4. Articles and Personal Activities* .01 linear ft. (three folders), 1956-1987.

Arranged in original order.

*Subseries 5. Plaques and Awards* 1.64 linear ft. (two non-standard boxes, 1977-1988.

Arranged by size.

**Series II. Praxis Proposal** 1.8 linear ft. (four manuscript boxes), 1962-1977.

Arranged in one subseries: 1. Documents.

*Subseries 1. Documents* 1.8 linear ft. (twenty nine folders), 1962-1977.

Arranged in original order.

**Series III. Praxis Development** 3.4 linear ft. (eight manuscript boxes and one-half manuscript box), 1958-1977.

Arranged in one subseries: 1. Documents.

*Subseries 1. Documents* 3.4 linear ft. (seventy four folders), 1958-1977.

Arranged in original order.

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## **Administrative Information**

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### **Publication Information**

Special Collections Department, History of Aviation Collection

### **Access Restrictions**

Materials in this collection are open for research.

### **Literary Rights Statement**

Permission to publish material from this collection in any form, current or future, must be obtained from the Special Collections Department, McDermott Library, The University of Texas at Dallas.

### **Provenance Statement**

The *George Alan Starr Papers* were donated to the History of Aviation Collection, Special Collections Department, McDermott Library, The University of Texas at Dallas, by The Vought Heritage Foundation on 5 March 2008.

### **Note to the Researcher**

Staples and fasteners were removed and replaced with coated paperclips where necessary. Spiral or other types of bulky bindings were removed from journals and booklets and the pages were trimmed where it was feasible. The content of these documents were interleaved with acid-free paper and placed into folders. Photographs in albums depending on their size were removed and re-housed in polypropylene sleeves. A copy was made of all photo album content on acid-free paper to record original order and these are housed in appropriately labeled folders. The remaining images, negatives and transparencies were removed from non archival storage medium and placed in polypropylene sleeves, or interleaved with acid-free paper in the folders. Removal sheets indicate their location within the collection and are cross referenced. Oversized recognition and service award plaques were pulled from their location and re-housed in non-standard boxes. Cross reference sheets indicate their former locations.

### **Material Removed List**

2.50 linear ft. (two record center boxes) of duplicate materials, reports, proposals, technical publications, Doctorate project reports, photographs, and personal financial records and statements were removed and de-accessioned.

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## **Related Materials**

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### **Additional Sources**

More information about Alan Starr can be found on the following website:

Vought Aircraft Industries Retiree Club - Biographies <http://www.voughtaircraft.com/heritage/peoplaces/html/bstarr.html>

### **Books and Magazines**

Books and magazines were pulled and catalogued to be included into the HAC monograph and magazine stacks.

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## **Controlled Access Headings**

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## Personal Name(s)

- Starr, George Alan, Mr., 1920-2008

## Subject(s)

- Chance Vought Archives

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## Image ID

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It is the researcher's responsibility to secure permission from copyright holders of materials to which this institution does not own copyright.

Images in this collection are identified by a unique number that provides information about the format, record group, collection, series, box, folder, and image numbers. Please use this number when ordering reproductions of images from this collection.

### *Record Group Code*

- 1 = CAT/Air American Archives
- 2 = Doolittle Archives
- 3 = Lighter than Air Archives
- 4 = George H. Williams, Jr., World War I Aviation Library
- 5 = History of Aviation Archives
- 6 = University Archives
- 7 = HAC Stacks
- 8 = WPRL Stacks
- 9 = Cecil H. and Ida M. Green Collection
- 10 = Belsterling Collection
- 11 = Closed Stacks
- 12 = Unidentified
- 13 = Chance Vought Archives

14 = Twirly Birds Archives

***Image Format Code***

P = Photograph/Postcard

S = Slide

N = Negative

T = Positive Transparency

B = Black and White

C = Color

***Example:*** 13AS-1-1-PC1

13 = Chance Vought Archives

AS = George Alan Starr Papers

= Series Number

1 = Box Number

1 = Folder Number

P = Photograph/Postcard

C = Color

1 = Image Number

Images archived in plastic image holders may also have a location code in the format: 1/TL. In this example, the number is the sheet number and the letters indicate the top left position on the sheet. Position indicators are T = top, L = left, R = right, M = middle, and B = bottom. Position indicators may be combined to describe the position on the sheet, as shown in this example.

## Series I. Personal Papers

## Collection Inventory

## Series I. Personal Papers 1952-1989

## Subseries 1. Private Documents

Fable. 1977 September 9 Fable - "Hippety Hop."

	<b>Box</b>	<b>Folder</b>
Text	1	1

French Class Notes. Undated Handwritten notes.

	<b>Box</b>	<b>Folder</b>
Text	1	2

Indiana Institute of Technology. Undated Reproduced pencil drawing of administration building.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	3

Personal Journal. 1961-1966 Listing of books read by Alan Starr.

**Subseries 2. Business Documents**

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	<b>Box</b>	<b>Folder</b>
Text	1	4

Personal Journal Notes. 1952-1963 Also included is a Chance Vought "Structural Design Data" pocket handbook dated December, 1955.

	<b>Box</b>	<b>Folder</b>
Text	1	5

**Subseries 2. Business Documents**

*Aerospatiale* Newsletter. 1986 July Edward J. Denari, "An Historical Review of Aeropatiale Helicopter Corporation," 4, no. 5 (July 1986).

	<b>Box</b>	<b>Folder</b>
Text	1	6

Appointment Calendars. 1982-1984

	<b>Box</b>	<b>Folder</b>
Text	1	7

Appointment Calendars. 1984-1989

## Subseries 2. Business Documents

	<b>Box</b>	<b>Folder</b>
Text	1	8

Executive Summary. 1978 July Response to United States Coast Guard (USCG) Request for Proposal.

	<b>Box</b>	<b>Folder</b>
Text	1	9

Retirement. Circa 1977 Copy of original retirement booklet.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	10

Retirement. Circa 1977 Original retirement booklet.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	11

### Processing Information note

Transparencies moved to Box 17, Folder 2.

Certificates. 1965-1980 Various membership, recognition, and citation certificates.

**Subseries 3. Images**

	<b>Box</b>	<b>Folder</b>
Text	1	12

Retirement - Aerospatiale. 1985 April 4 Image number 13AS-1-13-PC1 depicting helicopter with attendee signatures and personal thank you card.

	<b>Box</b>	<b>Frame</b>
Mixed materials	1	13

Cost Study. Undated Titanium cost value study.

	<b>Box</b>	<b>Folder</b>
Text	1	14

**Subseries 3. Images**

Image. Undated 13AS-1-15 -PC1 photograph of Snoopy cartoon character.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	15

Photograph Album. 1977 Copy of original retirement photo album.

	<b>Box</b>	<b>Folder</b>
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## Subseries 3. Images

Graphic materials	1	16
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Photograph Album. 1977 Image numbers 13AS-1-17-PC1 through 13AS-1-17-PC44 Chance Vought retirement party photographs.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	17

Images. Undated Image numbers 13AS-1-18-SC1 through 13AS-1-18-NB3 cartoon characters.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	18

Image. 1978 March 30 Image number 13AS-1-19-PB1 350D helicopter delivery.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	19

Images. 1983 April 29 Image numbers 13AS-1-20-PC1 through 13AS-1-20-PC7 depicting the first USCG HH65 Delivery.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	20

## Subseries 3. Images

Images. 1958-1985 Image numbers 13AS-1-21-PB1 through 13AS-1-21-PB8 general business meetings.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	21

Image. 1963 September Image number 13AS-1-22-PB1 notation on rear of photo reads: "AARP of MAB meeting."

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	22

Image. Undated Image number 13AS-1-23-PC1 Alan Starr.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	23

Image. Undated Image number 13AS-1-24-PB1 company group meeting.

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	24

Images. Undated Image numbers 13AS-1-25-PB1 through 13AS-1-25-PB6 general business meetings.

**Subseries 4. Articles and Personal Activities.**

	<b>Box</b>	<b>Folder</b>
Graphic materials	1	25

**Subseries 4. Articles and Personal Activities.**

Article. 1986 June 5 Art Schoeni, "Navy Celebrates 75 Years of Aviation," (5 June 1986) 3-4.

	<b>Box</b>	<b>Folder</b>
Text	1	26

Alumni Luncheon. 1956 October Image 13AS-1-27-PB1 through 13AS-1-27-PB2 depicting alumni meeting attendees, meeting minutes, and articles.

	<b>Box</b>	<b>Folder</b>
Text	1	27

Elderhostel. 1987 June-July Correspondence, activity schedules, and certificates.

	<b>Box</b>	<b>Folder</b>
Text	1	28

**Series II. Praxis Proposal**

**Subseries 1. Documents.****Subseries 1. Documents.**

Engineering Praxis Proposal. 1971-1977 Letters, business correspondence, reports, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	2	1

New Technologies, Part 1. 1975-1977 Presentations, business correspondence, reports, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	2

New Technologies, Part 2. 1962-1976 Business correspondence, reports, newsletter, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	3

New Technologies, Part 3. 1975-1977 Newsletters, business correspondence, reports, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	4

**Subseries 1. Documents.**

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Technology Research and Development Spending/Federal Budgets, Part 1. 1975-1977 Newsletters, business correspondence, booklets, reports, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	5

Technology Research and Development Spending/Federal Budgets, Part 2. 1962-1967 Newsletters, business correspondence, booklets, reports, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	6

Technology Research and Development Spending/Federal Budgets, Part 3. 1973-1976 Newsletters, business correspondence, booklets, reports, and general articles.

	<b>Box</b>	<b>Folder</b>
Text	2	7

Technology Research and Development Spending/Federal Budgets, Part 4. 1971-1976 Reports, booklets, personal notes, and articles.

	<b>Box</b>	<b>Folder</b>
Text	3	1

## Subseries 1. Documents.

Worth/Cost Analysis. 1970-1975 Contains reports, booklets, correspondence, and articles.

	<b>Box</b>	<b>Folder</b>
Text	3	2

Mathematical Modeling, Part 1. 1972-1977 Reports, booklets, correspondence, and articles.

	<b>Box</b>	<b>Folder</b>
Text	3	3

Mathematical Modeling, Part 2. 1969-1975 Booklet, correspondence, and articles.

	<b>Box</b>	<b>Folder</b>
Text	3	4

Mathematical Modeling, Part 3. 1969-1971 Booklet, correspondence, and articles.

	<b>Box</b>	<b>Folder</b>
Text	3	5

Technology Innovation/Marketing, Part 1. 1966-1974 Reports and booklets.

## Subseries 1. Documents.

	<b>Box</b>	<b>Folder</b>
Text	3	6

Technology Innovation/Marketing, Part 2. 1965-1969 Contains reports, booklets, and articles.

	<b>Box</b>	<b>Folder</b>
Text	4	1

Technology Innovation/Marketing, Part 3. 1968-1972 Reports, degree fulfillment documents, and correspondence.

	<b>Box</b>	<b>Folder</b>
Text	4	2

Technology Innovation/Marketing, Part 4. 1970-1972 Reports, booklet, and correspondence.

	<b>Box</b>	<b>Folder</b>
Text	4	3

Technology Forecasting, Part 1. 1967 May-November Research reports, articles, and notes.

	<b>Box</b>	<b>Folder</b>
Text	4	4

**Subseries 1. Documents.**

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Technology Forecasting, Part 2. 1970-1972 Reports and business correspondence.

	<b>Box</b>	<b>Folder</b>
Text	4	5

Technology Forecasting, Part 3. 1967-1970 Report regarding allocating marketing efforts to potential projects and Institute of Electrical and Electronic Engineers (IEEE) magazine.

	<b>Box</b>	<b>Folder</b>
Text	4	6

Technology Assessment, Part 1. 1974-1975 Reports, business correspondence, personal notes, and General Foulois Award ephemera.

	<b>Box</b>	<b>Folder</b>
Text	4	7

**Note to the Researcher**

Transparencies moved to box 17, folder 3.

Technology Assessment, Part 2. 1972-1975 Letters, personal notes, Senate sub committee hearing, articles, and newsletter regarding establishment of an Office of Technology Assessment to aid the U.S. Congress.

## Subseries 1. Documents.

	<b>Box</b>	<b>Folder</b>
Text	5	1

Technology Assessment, Part 3. 1972-1973 Articles and business correspondence.

	<b>Box</b>	<b>Folder</b>
Text	5	2

Technology Assessment, Part 4. 1972-1977 Articles, business correspondence, and U.S. Department of Defence (DOD) Directive 5000.1.

	<b>Box</b>	<b>Folder</b>
Text	5	3

Technology Assessment, Part 5. 1976-1977 Articles, studies, and reports.

	<b>Box</b>	<b>Folder</b>
Text	5	4

Technology Assessment, Part 6. 1968-1977 Reports, articles, and evaluations.

	<b>Box</b>	<b>Folder</b>
Text	5	5

**Series III. Praxis Development**

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Technology Assessment, Part 7. 1967-1977 Reports, summer symposium class materials, and notes.

	<b>Box</b>	<b>Folder</b>
Text	5	6

Technology Assessment, Part 8. 1973 February-June Reports, articles, and lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	6	1

Technology Assessment, Part 9. 1973 June Reports, articles, and lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	6	2

Technology Assessment, Part 10. 1973 June Lecture notes and articles.

	<b>Box</b>	<b>Folder</b>
Text	6	3

**Series III. Praxis Development**

**Subseries 1. Documents.****Subseries 1. Documents. 1955-1984**

The Impact of Technology Readiness on Systems Development, Part 1. 1977 November Partial fulfillment of the requirements for the Doctorate in Engineering Degree, Southern Methodist University School of Engineering.

	<b>Box</b>	<b>Folder</b>
Text	6	4

The Impact of Technology Readiness on Systems Development, Part 2. 1977 November Abstract and executive summary.

	<b>Box</b>	<b>Folder</b>
Text	6	5

Logbook. 1977 June-December Business and personal related notes.

	<b>Box</b>	<b>Folder</b>
Text	6	6

Degree Plan Essay. 1971 August 11 Brief summary of professional goals and the Doctorate of Engineering Degree.

## Subseries 1. Documents.

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	<b>Box</b>	<b>Folder</b>
Text	6	7

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Degree Plan - Praxis Selection, Part 1. 1970-1971 Business correspondence, articles, and pamphlets.

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	<b>Box</b>	<b>Folder</b>
Text	6	8

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Praxis Problem Definition. 1972 March-May Presentation, articles, and personal notes.

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	<b>Box</b>	<b>Folder</b>
Text	7	5

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Degree Plan - Praxis Selection, Part 2. 1971-1972 Personal notes, letters, reports, and articles.

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	<b>Box</b>	<b>Folder</b>
Text	7	1

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Large Scale System Simulation, Part 1. 1977 June Lecture notes, documents, and ephemera.

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	<b>Box</b>	<b>Folder</b>
Text	7	2

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**Subseries 1. Documents.**

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Large Scale System Simulation, Part 2. 1977 July Lecture and class notes.

	<b>Box</b>	<b>Folder</b>
Text	7	3

Large Scale System Simulation, Part 3. 1977 July-August Lecture, class notes, and exam.

	<b>Box</b>	<b>Folder</b>
Text	7	4

Praxis Bibliography. 1971-1973 Articles, personal notes, memoranda, and ephemera.

	<b>Box</b>	<b>Folder</b>
Text	7	6

Praxis Activity Log. Undated Personal notes.

	<b>Box</b>	<b>Folder</b>
Text	7	7

Praxis Correspondence. 1971-1972 Personal and business coorespondence, and personal notes.

**Subseries 1. Documents.**

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	<b>Box</b>	<b>Folder</b>
Text	7	8

Praxis Development and Scope, Part 1. 1977 February-August Coorespondence, memoranda, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	7	9

Praxis Development and Scope, Part 2. 1977 June-July Personal notes and project diagrams.

	<b>Box</b>	<b>Folder</b>
Text	7	10

Systems Analysis and Design, Part 1. 1968 September-October Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	8	1

Systems Analysis and Design, Part 2. 1968 October-November Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	8	2

## Subseries 1. Documents.

Systems Analysis and Design, Part 3. 1968 November Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	8	3

Engineering Reliability, Part 1. 1969 September-November Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	8	4

Engineering Reliability, Part 2. 1969 October-December Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	8	5

Probability and Statistics. 1967 January-May Lecture notes and documents.

	<b>Box</b>	<b>Folder</b>
Text	8	6

Advanced Mathematical Statistics. 1968 September-December Lecture documents, notes, and exams.

## Subseries 1. Documents.

	<b>Box</b>	<b>Folder</b>
Text	8	7

Fluid Mechanics, Part 1. 1972 August Lecture notes and documents.

	<b>Box</b>	<b>Folder</b>
Text	8	8

Fluid Mechanics, Part 2. 1972 August Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	9	1

Fluid Mechanics, Part 3. 1972-1974 Lecture and miscellaneous notes related to subject matter.

	<b>Box</b>	<b>Folder</b>
Text	9	2

Fluid Mechanics, Part 4. 1973-1974 Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	9	3

**Subseries 1. Documents.**

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Stochastic Processes. 1969 January-May Lecture notes, documents, and exams.

	<b>Box</b>	<b>Folder</b>
Text	9	4

Applied Stochastic Processes Volume II, Part 1. 1970 February-May Lecture notes, documents, and exams.

	<b>Box</b>	<b>Folder</b>
Text	9	5

Applied Stochastic Processes Volume II, Part 2. 1970 January-May Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	9	6

Mathematical Methods in Operations Research. 1967-1968 Lecture notes and exams.

	<b>Box</b>	<b>Folder</b>
Text	9	7

Advanced Engineering Economics, Part 1. 1967 September-October Lecture notes and exams.

## Subseries 1. Documents.

	<b>Box</b>	<b>Folder</b>
Text	10	1

Advanced Engineering Economics, Part 2. 1967 October-December Lecture notes and exams.

	<b>Box</b>	<b>Folder</b>
Text	10	2

Mathematical Methods in Operations Research, Part 1. 1967 September-October Lecture notes and exams.

	<b>Box</b>	<b>Folder</b>
Text	10	3

Mathematical Methods in Operations Research, Part 2. 1967 October-December Lecture notes and exams.

	<b>Box</b>	<b>Folder</b>
Text	10	4

Mathematical Methods in Operations Research II, Part 1. 1968 January-March Lecture notes and exams.

	<b>Box</b>	<b>Folder</b>
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## Subseries 1. Documents.

Text	10	5
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Mathematical Methods in Operations Research II, Part 2. 1968 March-April Lecture notes, articles, and research report.

	<b>Box</b>	<b>Folder</b>
Text	10	6

Applied Stochastic Processes Volume I, Part 1. 1970 January-April Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	11	1

Applied Stochastic Processes Volume I, Part 2. 1970 January-April Lecture notes.

	<b>Box</b>	<b>Folder</b>
Text	11	2

The Impact of Technology Readiness. 1977 November Master draft in partial fulfillment of the requirement for the Doctorate in Engineering Degree.

	<b>Box</b>	<b>Folder</b>
Text	11	3

## Subseries 1. Documents.

Praxis Notes. 1972-1975 Personal notes, business corespondence, and articles.

	<b>Box</b>	<b>Folder</b>
Text	11	4

Evolution of the Technology Model, Part 1. 1977 July-November Formal report and analysis.

	<b>Box</b>	<b>Folder</b>
Text	11	5

Evolution of the Technology Model, Part 2. 1977 July-November Formal report and analysis.

	<b>Box</b>	<b>Folder</b>
Text	11	6

The Impact of Technology Readiness. 1977 May-November Business correspondence and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	12	1

Use of Time Sharing Option and Dynamo. 1976-1977 Personal notes and instructions.

## Subseries 1. Documents.

	<b>Box</b>	<b>Folder</b>
Text	12	2

Dynamo. 1977 July-August Flow diagrams and code instruction sheets.

	<b>Box</b>	<b>Box</b>
Text	12	3

The Impact of Technology Readiness. 1977 November Executive summary.

	<b>Box</b>	<b>Folder</b>
Text	12	4

Systems Development Models. 1977 November-December Coding instructions and analysis graphs.

	<b>Box</b>	<b>Box</b>
Text	12	5

Praxis - Issues and Ideas. 1977 February-December Personal notes, flow charts, articles, and draft document.

	<b>Box</b>	<b>Folder</b>
Text	12	6

**Subseries 1. Documents.**

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Project Data for Composite Outer Wing Panel. 1973-1977 Graphs, project timeline, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	12	7

Time Sharing Option Fundamentals. Circa 1970 Operators instruction manual.

	<b>Box</b>	<b>Folder</b>
Text	12	8

Project Management Model-RANDD1. 1977 August 17 Personal notes and computer programming sheets.

	<b>Box</b>	<b>Folder</b>
Text	12	9

Project Management Model-RANDD2. 1977 July-August Personal notes, graphs, and programming sheets.

	<b>Box</b>	<b>Folder</b>
Text	12	10

## Subseries 1. Documents.

Project Management Model-RANDD3. 1977 July-August Personal notes, flow charts, and computer programming sheets.

	<b>Box</b>	<b>Folder</b>
Text	12	11

Project Management Model, Part 1. 1977 July-August Correspondence with Thomas J. Kelly, Grumman Aviation, personal notes, flow charts, and computer programming sheets.

	<b>Box</b>	<b>Folder</b>
Text	12	12

Project Management Model, Part 2. 1977 July-August

	<b>Box</b>	<b>Folder</b>
Text	13	1

Term Project. 1974-1977 Project based on RANDD Ed Roberts' simple project model. Notes, articles, flow charts, and computer programming sheets.

	<b>Box</b>	<b>Folder</b>
Text	13	2

## Subseries 1. Documents.

Effects of Policies on Technology Application - Volume I. 1971-1977 Articles and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	13	3

Energy Technology Assessment - Volume II, Part 1. 1976 October 22 Technical evaluation report of Vought's potential for future business opportunities related to energy systems.

	<b>Box</b>	<b>Folder</b>
Text	13	4

Energy Technology Assessment - Volume II, Part 2. 1976 October 22 Technical evaluation report of Vought's potential for future business opportunities related to energy systems.

	<b>Box</b>	<b>Folder</b>
Text	13	5

Energy Technology Assessment - Volume II, Part 3. 1976 October 22 Technical evaluation report of Vought's potential for future business opportunities related to energy systems.

	<b>Box</b>	<b>Folder</b>
Text	13	6

## Subseries 1. Documents.

Energy Technology Assessment - Volume II, Part 4. 1976 October 22 Technical evaluation report of Vought's potential for future business opportunities related to energy systems.

	<b>Box</b>	<b>Folder</b>
Text	13	7

Energy Plan, Part 1. 1976-1977 Business correspondence, executive summary of Vought's potential energy business opportunities, and presentation transparencies.

	<b>Box</b>	<b>Folder</b>
Text	14	1

Energy Plan, Part 2. 1975-1976 Business correspondence, trip reports, presentation materials, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	14	2

Energy Plan - Phase I Study. 1974-1975 Presentation and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	14	3

**Subseries 1. Documents.**

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Solar and Wind Energy. 1975-1976 Business correspondence, articles, presentation and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	14	4

National Science Foundation-Research Applied to National Needs Seminar. 1975 June 13 Documents, booklets, reports, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	14	5

Alternative Energy Opportunities. 1975-1976 Articles, business correspondence, and personal notes.

	<b>Box</b>	<b>Folder</b>
Text	14	6

Presentation. 1975 June "Energy Scenarios for the Future".

	<b>Box</b>	<b>Folder</b>
Text	14	7

**Subseries 1. Documents.**

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Reference Materials, Part 1. 1975 June-November Magazines, reports and booklets; "Astronautics and Aeronautics," "Establishment of a Solar Energy Research Institute," "National Solar Energy Research," and "Modern Metals."

	<b>Box</b>	<b>Folder</b>
Text	14	8

Reference Materials, Part 2. 1974-1975 Articles and reports.

	<b>Box</b>	<b>Folder</b>
Text	14	9

Master of Science Degree Thesis. 1958 April 30 Thesis subject: "Factors Affecting the Steady State Skin Temperatures Resulting from Aerodynamic Heating for Flight up to Mach Number 6.0."

	<b>Box</b>	<b>Folder</b>
Text	15	1

Energy Technology Assessment. 1976 January-May Weekly progress reports.

	<b>Box</b>	<b>Folder</b>
Text	15	2

**Series I. Personal Papers**

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Thomas J. Kelly Thesis, Part 1. 1952-1988 (Bulk, 1965-1985) Personal notes and copy of Thomas J. Kelly's (V.P. of Engineering at Grumman Aviation) thesis for Master of Science Degree at MIT titled "The Dynamics of R&D Project Management."

	<b>Box</b>	<b>Folder</b>
Text	15	3

Thomas J. Kelly Thesis, Part 2. 1970 June Copy of Thomas J. Kelly's (V.P. of Engineering at Grumman Aviation) thesis for Master of Science Degree at MIT titled "The Dynamics of R&D Project Management."

	<b>Box</b>	<b>Folder</b>
Text	15	4

**Series I. Personal Papers****Subseries 5. Plaques and Awards.**

Plaque - Founders Circle Member. Undated Item 1 - Wood plaque, 16cm x 18cm with encribed metal plate denoting "Founders Circle Member", Fellowship of Christian Athletes presented to G. Alan and Lillian Starr.

	<b>Box</b>	<b>Object</b>
Graphic materials	16	1

**Subseries 2. Business Documents.**

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Plaque - Louis Evans Associates. 1988 Item 2 - Wood plaque, 20.5cm x 25.5cm with encribed metal plate. Presented by The Louis Evans Associates in 1988 to Dr. & Mrs. Alan G. Starr for supporting the Fellowship of Christian Athletes.

	<b>Box</b>	<b>Object</b>
Graphic materials	16	2

Plaque - Louis H. Evans Associates. Undated Item 3 - Wood plaque, 24.5cm x 20cm, with encribed plate. Presented by Louis H. Evans Associates awarding membership to G. Alan & Lillian Starr into the Fellowship of Christian Athletes.

	<b>Box</b>	<b>Object</b>
Graphic materials	16	3

Plaque - Aerospatiale Helicopter Corporation. Item 1 - Wood plaque, 31cm x 23cm with encribed metal plate. Presented to G.A. Starr by Aerospatiale Helicopter Corporation, March, 1985 "In Recognition of Loyal and Meritorious Service."

	<b>Box</b>	<b>Object</b>
Graphic materials	17	1

**Subseries 2. Business Documents.**

Transparencies - Retirement Party. 1977 Retirement from Vought Aircraft celebration.

**Subseries 2. Business Documents.**

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	<b>Box</b>	<b>Folder</b>
Graphic materials	17	2

Transparencies - Technical Payoff. Undated Presentation regarding policies that influence the development and application of advanced structural materials.

	<b>Box</b>	<b>Folder</b>
Graphic materials	17	3