

## **MS-510 Charles “Chuck” Tiffany Collection**

**Collection Number:** MS-510

**Title:** Charles “Chuck” Tiffany Collection

**Dates:** 1913-2014 (bulk 1970-1993)

**Creator:** Tiffany, Charles F., 1929-2014

**Summary/Abstract:**

This collection consists of correspondence, awards and citations, photographs, and engineering reports related to Mr. Tiffany’s work at Boeing and for the Air Force at Wright-Patterson AFB.

**Quantity/Physical Description:** 3 linear feet.

**Language(s):** English

**Repository:**

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

**Restrictions on Access:**

Electronic files in this collection are not accessible until the files are fully processed. Requests to prioritize processing of electronic records in this collection can be submitted for consideration.

**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 Unpublished manuscripts are protected by copyright.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:**

[Description of item, Date, Box #, Folder #], MS-510, Charles “Chuck” Tiffany Collection, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio.

**Acquisition:** The Charles “Chuck” Tiffany Collection was donated to Wright State University Special Collections and Archives by Mark A. Tiffany of Rancho Palos Verde, California on July 21, 2015.

**Accruals:** No further accruals are expected.

**Existence and Location of Copies:** Digital scans created by the donor of many of the items in the collection are available in the E-Archives (ms510\_e0001). The files also include a chronology of Tiffany’s career and posthumous tributes to Tiffany.

**Separated Material:** Oversize Loc 85, File 7 contains the AIAA Fellow Award.

**Notes:** Three scrapbooks were disassembled, pages were sleeved and placed in binder boxes in original order. Citations and plaques were removed from frames and boxed together, with the exception of the AIAA Fellow Award, which is housed in Oversize Loc 85.

**Processed by:** Finding aid written according to DACS standards by Jocelyn Robinson, 2016.

**Arrangement:** The collection is arranged at the item level by format.

**Biographical Note:**

Charles F. "Chuck" Tiffany was born in 1929 and raised in Aitkin, Minnesota. After graduating from Aitkin High School in 1947 he attended Macalester College and the University of Minnesota where he received degrees in Civil Engineering and Mathematics. In 1952 he joined the Boeing Aircraft Company in Seattle as a stress analyst.

His career with Boeing (28 years) and the U.S.A.F. (8 years) progressed to Executive Vice-President of the Boeing Military Airplane Company. After retiring from Boeing in 1988, he was a private consultant on aircraft and aerospace vehicle structures for the U.S.A.F., D.O.D., NASA, FAA, National Academy of Engineering (N.A.E.), National Research Council, and all of industry.

Tiffany's area of expertise was airframe and propulsion structural design and damage tolerance. He led the development of new structural standards and specifications for improving aircraft safety and durability. He was a Member of the N.A.E. and was a Fellow of the American Institute of Aeronautics and Astronautics (A.I.A.A.). He received numerous awards and honors throughout his lifetime, including the Von Karman Memorial Award, the A.I.A.A. Structures, Material and Dynamics Award, the American Society of Mechanical Engineer's "The Spirit of St. Louis Medal," the John W. Lincoln Award, and the FAA Gold Medal. His work was captured in numerous technical papers and reports, including most recently, "Aging of U.S. Air Force Aircraft" and "Threats to Aircraft Structural Safety, Including a Compendium of Selected Structural Accidents/Incidents."

Charles Tiffany died October 12, 2014, in Tucson, AZ.

**Scope and Content:**

The collection contains reports and papers produced by Mr. Tiffany during the course of his career as a leading engineer in the field of aircraft structural integrity. Also included are numerous awards, medals, and citations, and three scrapbooks with letters of commendation, photographs, news clippings, programs, and other materials related to his work. Researchers may find evidence of Tiffany's widespread influence on numerous aeronautic and aerospace projects in both the private sector and government.

**Subject Terms**

**Persons/Families**

Tiffany, Charles F., 1929-2014

**Organizations/Corporate Names**

Boeing Aircraft Company

**Places**

Dayton (Ohio)

Wright-Patterson Air Force Base (Ohio)

**Subjects (General)**

Airframes – Fatigue

Airframes – Design and construction

Structural engineering

Tolerance (Engineering)

Fracture mechanics

**Material Types**

Awards

Correspondence

Photographs

Scrapbooks

**Collection Inventory**

| <u>Box</u> | <u>File</u> | <u>Description</u>   | <u>Date</u> |
|------------|-------------|--|-------------|
|            |             | <b>Scrapbooks</b>  |             |
| 1          |             | Scrapbook 1  | Undated     |
| 2          |             | Scrapbook 2  | Undated     |
| 3          |             | Scrapbook 3  | Undated     |
|            |             |  |             |
| <u>Box</u> | <u>File</u> | <u>Description</u>   | <u>Date</u> |
|            |             | <b>Medals</b>  |             |
| 4          |             | American Institute of Aeronautics and Astronautics Structures, Structural Dynamics and Materials Award   | 1976        |
| 4          |             | The American Society of Mechanical Engineers Spirit of St. Louis Medal for Meritorious Service in the Advancement of Aerodynamics (in wooden presentation box) | 1993        |
| 4          |             | John W Lincoln Award, USAF Aircraft Structural Integrity Program Conference (in velvet presentation box)   | 1997        |
| 4          |             | For Meritorious Civilian Service to the Department of the Air Force (in presentation box)  | 1987        |
| 4          |             | For Exceptional Civilian Service to the Department of the Air Force (in presentation box)  | 1993        |
| 4          |             | For Meritorious Civilian Service to the Department of the Air Force (in presentation box)  | Undated     |
| 4          |             | For Exceptional Civilian Service to the Department of the Air Force (in presentation box)  | Undated     |

| <u>Box</u>  | <u>File</u> | <u>Description</u>   | <u>Date</u> |
|-------------|-------------|--|-------------|
|             |             | <b>Awards</b>  |             |
| 5           | 1           | United States Air Force Scientific Advisory Board Ad Hoc Committee on the F-111  | Undated     |
| 5           | 2           | Federal Aviation Administration Award for Extraordinary Service to Technical Oversight Group for Aging Aircraft                                    | 2002        |
| 5           | 3           | Aeronautical Systems Division Engineering Award Plaque   | 1974        |
| 5           | 4           | USAF Civilian Service Award Certificates (4 total)   | Undated     |
| 5           | 5           | Certificate from The American Society of Mechanical Engineers Spirit of St. Louis Medal for Meritorious Service in the Advancement of Aerodynamics | 1993        |
| 5           | 6           | National Academy of Engineering Membership Certificate   | 1984        |
| 5           | 7           | National Academy of Sciences Print   | Undated     |
| 5           | 8           | American Institute of Aeronautics and Astronautics Structures, Structural Dynamics and Materials Award   | 1976        |
| 5           | 9           | American Institute of Aeronautics and Astronautics Structures, Fellow Certificate (see also OS 85, File 7)   | 1980        |
| 5           | 10          | Von Karman Memorial Contest First Prize Plaque for Developments in Application of Fracture Mechanics   | 1974        |
|             |             |  |             |
| <u>Box</u>  | <u>File</u> | <u>Description</u>   | <u>Date</u> |
|             |             | <b>Technical Papers</b>  |             |
| 6           | 1           | Fracture Mechanics Papers  | 1913-1965   |
| 6           | 2           | Boeing Pressure Vessel Report  | 1963        |
| 6           | 3           | Low-cycle Fatigue Failures Paper   | 1964        |
| 6           | 4           | Fracture Control Paper   | 1970        |
| 6           | 5           | Metal Progress Paper   | 1976        |
| 6           | 6           | Application of Fracture Mechanics Paper  | 1977        |
| 6           | 7           | Threats to Aircraft Paper  | 2010        |
|             |             |  |             |
| <u>Box</u>  | <u>File</u> | <u>Description</u>   | <u>Date</u> |
| ms510_e0001 |             | Tributes to Charles Tiffany (Posthumous)   | 2014        |