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### Chambers, Gene, collection, 1952-2013

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## Chambers, Gene, Collection MS 283

### Gene Chambers Collection

<b>Collection Number</b>	MS 283
<b>Title</b>	The Gene Chambers Collection
<b>Repository</b>	Pittsburg State University, Special Collections & University Archives, Pittsburg, Kansas 1701 S. Broadway Pittsburg, Kansas 66762 (620) 235-4883 speccoll@pittstate.edu
<b>Dates</b>	1952 – 2013
<b>Collection Size</b>	13 linear feet
<b>Donor</b>	John Chambers
<b>Scope and Content</b>	The Gene Chambers Collection includes personal and professional papers and documents, including work from his time as a professor at Pittsburg State University and consulting work he did on engineering matters.
<b>Access Restrictions</b>	This collection is open for access. Researchers must use the collection in accordance with the policies of the Special Collections & University Archives, Leonard H. Axe Library, Pittsburg State University
<b>Languages</b>	English
<b>Biographical Note</b>	Albert Gene Chambers was born in North Little Rock, Arkansas on September 30, 1924 the oldest son of Albert Hugh and Thelma Geneva (Waldrop) Chambers. He grew up in North Little Rock, graduating from North Little Rock High School in 1942. Upon graduation, he volunteered for service with the U. S. Army Air Force serving from 1942 to 1946. He was stationed in several locations from Gander, Newfoundland in Canada to Fairfield-Suisun Field in California. After the war he attended several colleges and universities in Arkansas and Kansas and earned several degrees including a Bachelor of Science in Education, Master of Science in Education and a Bachelor of Science in Aeronautical Engineering. He also attained his Kansas license as a Professional Engineer in 1961. He met Naomi Ruth Holloway in Wichita and they were married on April 4, 1954. He worked for Beech Aircraft and Boeing in Wichita as an engineer before joining the faculty at Wichita State University in 1966 in the Engineering Graphics program. In 1969, he left WSU to start the Engineering Technology program at Pittsburg State University, designing the program and getting it accredited. He left PSU for a short time to work for Superior Concrete Accessories in Parsons. He returned to PSU in 1978 staying until he retired in 1991. He also did part time teaching at Labette Community College after he retired. He passed away in Parsons, Kansas in January 2019.

## **Chambers, Gene, Collection MS 283**

### **Series Overview:**

The series are: **Personal Material; Research and Consultation Work; Dr. Chambers' Student Coursework; Beechcraft; Books and Manuals; Layouts; Aircraft; Teaching Coursework; Pittsburg State University Documents; Miscellaneous**

### **Box 1:**

#### Personal Material

Biographical Data July 1986

Resume

Letterhead, envelope and visiting cards

Appreciation Certificate

Study Notes

Correspondence

Retirement Pictures

Transcript

Miscellaneous

Correspondence

Correspondence – Lloyd Bradshaw (Letters addressed to A. G. Chambers)

Research Grant. 1975

Annual Report/Scholarly Activities/Teaching Evaluation

Appointment letter/Retirement letter

Miscellaneous

Newspaper / Articles (1977 – 1993)

#### Research Work / Consultation (1959 – 1995)

Test of Ten-Foot Straightedge 1959

Rotation and Shear Determination for a Cantilever Aluminum Alloy Channel 1960

The Pearlistic Cast Iron 1961

Electrically Operated Toothbrush 1975

Comparison of graphical and mathematical solution to locate line of intersection 1984

Analysis of Roof Truss 1986

Holden Industries, Inc. profile 1988

New Method for Fastening a Wheel 1988

Breakaway Assembly 1990

Turnover Ball design 1990

Development of Free-Swinging Sifter 1990

Mobile Care Units Phase-II 1991

Wool Insulation 1993

General Aviation Aircraft Seat Development 1995

Boat Design

Carwax Buffer

Arlyn Hare efficient motorcycle

## **Chambers, Gene, Collection MS 283**

### Student Coursework

Miscellaneous (1961-1967)  
University of Wichita coursework (1955 – 1961)  
Industrial Freehand Sketching  
Quiz 1967  
Graphics in Industrial Analysis 1961  
Miscellaneous  
Manual  
Blueprints Reading-II 1967  
Machine Design Stress Concentration 1951

### **Box 2:**

Plaque & Awards  
Phi Theta Kappa 1947  
Deans Meanness Award 1893  
Beechcraft Employment card 1959  
PSU 20 years working Award  
SME Student Chapter 1970-1971, 1986  
Professional Engineer Stamp  
American Society of Mechanical Engineer Appreciation Award 1988  
National Society of Engineers Certificate 1999  
MGM Carson Robinson “*Prediction for a Hundred Years from Now*”  
Frame Photo (Vietnam) 1968  
Miscellaneous

### **Boxes 3 & 4:**

#### Beechcraft (1952 – 1978)

Stress Manual 1961  
Tips on Forming a Flying Club 1952  
Engineering Manual Section 2 Drafting Practices, 1964  
Engineering Manual Section 5 Design, 1953 & 1954  
Engineering Manual Materials Section 3, 1978  
Multi-Purpose Servicing Beech Model 329, 1957  
Supervisor Manual  
Bonanza M-35 Owner’s Manual 1959  
Bonanza E-35 handbook 1954  
Preliminary Load Four Place Airplane  
Propellers Controllable Series R200, 1947  
Beechcraft Employees Flying Club 1966  
Technical Proposal for North American Aviation Preflight Equipment Trailer 1957  
Structures Manual 1953  
Engineering Manual  
Boeing Design Manual (1958 – 1966)  
Boeing Design Manual 1963

## **Chambers, Gene, Collection MS 283**

Miscellaneous

### **Boxes 5 & 6**

#### Books/Manuals

Shelter Design and Analysis Volume-I TR-20

Fallout Shelter Analysis Revision to TR-20 Volume-I, 1970

Fallout Shelter Analysis Changes to TR-20 Volume-I, 1972

Technical Reference Handbook, E. P. Rasis 1984

Metric Units of Measure 10<sup>th</sup> Edition 1972

Problems on the Design of Machine Elements 4<sup>th</sup> Edition, Virgil M. Faires and Roy M. Wingren, 1965

Basic Blueprint Reading and Sketching, C. Thomas Olivo and Albert V. Payne, 1952

Who, Me Fly? Robert Scharff, 1966

Handbook of Blueprint Reading and Shop Practices 1958, 1980

Building with Fallout Shelter 1966

Private Pilot Complete Programmed Course 1967

Minimum Design Load for Building and other Structures 1990

C-54 10<sup>th</sup> Engineering School Operational Unit 1945

Practical Mathematics Denominate numbers, Geln M. Hobbs 1967

Space Technology 16MM Film Series University of Wichita

AWWA Standard for Factory-Coated Bolted Steel Tank for Water Storage, 1980

Methods for planning and analyzing accelerated tests, W.B. Nelson, 1973

Drafting technology vs Machine Design Technology 1969

1988-1990 KES annual directory Kansas Professional Engineer

Product Engineering 1965

A Call for Fire (with the 12<sup>th</sup> Marines in Vietnam – 1968), Diby H. Willard

The College Mathematics Journal, 1986

EMP protection for emergency operating centers 1971

Sure-grip Tilt-Up Construction

Information About Tau Beta Pi, 1965

Federal Aviation Regulations, 1995

In Time of Emergency 1985

Protection in the Nuclear Age 1985

The Kansas Chautauqua, Fredrick Krebs, John C. Lehman, 1988

Magazines

Miscellaneous

Books Removed From Collection and Cataloged for Special Collections:

Statistics, Jan J. Tuma, 1974

Aluminum: The Modern Material for Sewage Treatment

Aluminum Alloys in Water Storage

Engine Specification Catalog, Briggs & Stratton Corp., 1975

Structural Steel Design, Jack C. McConmac, 1981

Engineering Design Graphics 8<sup>th</sup> Edition, James H. Earle, 1994

Marks' Standard Handbook for Mechanical Engineers, 8<sup>th</sup> Edition, Baumeister

## **Chambers, Gene, Collection MS 283**

### **Box 6:**

Layouts (1914 – 1992)

Equipment

Aircraft

Miscellaneous

### **Boxes 7 & 8:**

Aircraft

Testing/Experiments

Practice Work

Book Notes

Airplane Airworthiness, Normal, Utility, And Acrobatic Categories, FAA Manual 3, 1959

Airplane Airworthiness, Normal, Utility, Acrobatic and Restricted Purpose Categories, Part 3, 1949

International Conference on Dynamic Stability of Structures 1965

Metallic Materials and Elements for Flight Vehicle Structures, military handbook, 1962

Strength of Metal Aircraft elements, military handbook, 1955

National Advisory Committee for Aeronautics report 1932

National Advisory Committee for Aeronautics 1942

Preliminary Flight Test Results of an Advanced Technology Light Twin-Engine Airplane, paper, 1976

Structure Design Manual, 1964

Draft of Wind Section TR 20

Stress Memos, Lockheed Aircraft Corporation

Stress Memo Manual, Lockheed Aircraft Corporation, 1942-1951

Erection and Maintenance for C-54A and C54-B (Army Models) and R5D-1 and R5D-2 (Navy Models), 1944

Crippling Stresses, Engineering Manual, 1955

Lofting Problem of Streamline Bodies

Room Temperature Mechanical Properties, manual

Kansas Statutes Pertaining to regulation of Aircraft, 1971

Circuit Wiring Book, Santa Monica Plant, 1944.

Kansas Airport Directory

Calculation of Curved Beam Reactions

Catalogs.

Miscellaneous

### **Boxes 9-12:**

Teaching

Coursework

Engineering Graphics-II 1985 (Pittsburg State University)

## **Chambers, Gene, Collection MS 283**

Engineering Graphics-II 1987 (Pittsburg State University)

Engineering Graphics-I 1996 (Pittsburg State University)

Quizzes

Assignments

Projects:

Design Projects (1972-1978)

Test if Infra-Red Heating Panel (1976)

Beam Bending Machine 1982

All Track Terrain Vehicle 1972

Wartime report 1942

Facilitation of Technical Problem-Solving in Small Interdisciplinary Groups 1983

Selecting IBM FC Compatible CAD Software for a Small Design Firm 1984

On-Track Derailment Detection System

Curriculum guide for a Three-Hour General Aviation Course, 1971

Structural Design and Analysis Education Program 1967

Safety Rail Bracket 1973

Miscellaneous

Course Design & Meetings

Books/Articles/Manuals/Catalogs

Concrete Strength Design Book 1974

Concrete Building Systems Design 1973

Community Junior College education 616 (1971)

Wind Load Provision 1986

Multiprotection Design Course, 1974

Acoustic Systems

Multiprotection design (1986-1987)

Geotechnical Investigation Clark Oil & Refinery Corporation, 1991

Integral Brazed Fittings for Hydraulic Systems 1960

Facing Geologic and Hydrologic Hazards 1980

Traffic Safety Study 1980

SME Chapter Membership

Infrared and Its Industrial Applications

Kansas State College of Pittsburg Schedule of Classes 1976

Kansas State College of Pittsburg Schedule of Classes 1977

Community Development and Civil Defense 1967

The protection factor estimation 1966

National School Fall Out Shelter Design Competition

A system approach to Engineering Design 1979

Kansas Professional Engineer yearbook 1975-1976

Propose Thermoelastic Experiment for Comparison, M. U. Ayres, 1963

Kansas Professional Engineer yearbook 1977

American Red Cross First Aid Textbook, 1951

An Old Task in New Context, 1984-85

Earth Sheltered Housing 1980

Emergency Management Institute 1986-1987

Surviving the Freshman Year in Engineering – Seminar 1987

## **Chambers, Gene, Collection MS 283**

Memphis and Shelby County Construction Code 1990  
Ultrasonic Inspection of Metals 1956  
Solution Manual for basic Graphical Kinematics second edition  
Mechanical Engineering Magazine 1989  
Plan and Print 1973  
Kansas Engineer 1975  
Tornado protection  
Miscellaneous  
Transparency Mount Film  
Student Lecture Copy  
Beam Bending Machine  
Mechanics of Materials  
Project Log  
Miscellaneous

### **Miscellaneous Manuals**

Engineering Manual  
Lockheed Aircraft Corporation  
Miscellaneous

### **Box 13:**

Pittsburg State University  
Airplane Models  
Tank / parts  
Beechcraft Model 34 Twin Quad  
Beechcraft Starship I  
Negatives & Slides  
Miscellaneous  
14 Tapes (Applied Mathematics I-II)