

**ROGER E. BILSTEIN**  
**PROFESSOR OF HISTORY, EMERITUS**  
**UNIVERSITY OF HOUSTON-CLEAR LAKE**

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 Dripping Springs, TX, 78620

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**PRIMARY TEACHING AND RESEARCH INTERESTS**

Recent America (1920s, post-WWII society and culture)  
 International affairs since 1900 (World War II, Cold War)  
 History of technology (aviation and astronautics, technology and culture, public history)  
 American West in the 20th century (technology and culture)

**EDUCATION**

1959 - B. A. (European history), Doane College, Crete, Nebraska  
 (Washington Semester Plan in political science/foreign relations, American University, 1957)  
 1960 - M. A. (American history), The Ohio State University, Columbus, Ohio.  
 1965 - Ph.D. (20th Century American history), The Ohio State University, Columbus, Ohio.

**MOST RECENT APPOINTMENT**

Member of the Charter Faculty at University of Houston-Clear Lake, established in 1974 as a suburban, upper-division campus for junior, senior, and M.A. Degree students.  
 Associate Professor, 1974-78; Professor, 1978-2000.

**PROFESSIONAL EXPERIENCE**

1961-65 The Ohio State University  
 Department of History (Teaching Assistant)

1965-72 The University of Wisconsin-Whitewater  
 Department of History; American Studies Program

1970-72 Research Institute, University of Alabama, Huntsville (on leave UW-Whitewater)  
 Sr. Research Associate, Apollo/Saturn History Project National Aeronautics and Space Admin.

1972-74 University of Illinois, Urbana  
 Institute of Aviation; Department of History (joint appointment)

1977-78 National Air and Space Museum, Smithsonian Institution  
 Visiting Scholar in Aerospace History

1992-93 National Air and Space Museum, Smithsonian Institution  
 Charles A. Lindbergh Chair of Aerospace History

1995-96 Air War College, USAF, Maxwell AFB, Alabama, Visiting Professor of History

**COURSES TAUGHT****(Undergraduate)**

Technology in American Life; Aerospace History; The United States 1914-1945; U.S. Since 1945; Nations at War; U.S./European Surveys.

**(Graduate)**

Chronological seminars in 20th Century United States history, by decade, 1920 to present. Topical seminars include: World War II; The Cold War and The Arms Race; Technology and Society; Aerospace Perspectives; American West in 20th Century; Postwar United States Business and Industry.

**HONORS AND AWARDS**

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|---------|---|
| 1955    | Nebraska Regents' Scholarship.  |
| 1955    | Butler Scholarship, Doane College.  |
| 1957    | Washington Semester Program, American University, Washington, D.C.  |
| 1960-61 | Mershon Fellow, National Security Policy Studies, The Ohio State University.  |
| 1968    | Wisconsin Regents' Study Grant, Studies in American Science and Technology.   |
| 1969    | UW-Faculty Research Travel Grant.   |
| 1969    | Wisconsin Regents' Study Grant, Studies in American History; the 1920s.   |
| 1970    | UW-Faculty Research Grant   |
| 1973    | Faculty Fellow, National Aeronautics and Space Administration/American Society for Engineering Education (summer).                                      |
| 1974    | Designated as NASA/ASEE second-year Fellow  |
| 1975    | Citation from Aviation/Space Writers Association, South Central Region, for best magazine article in 1974: "Aircraft for the Space Age." (cited below). |
| 1977    | UHCL Faculty Research Grant: Aviation History.  |
| 1977    | Goddard Historical Essay Award of the National Space Council, "From the S-IV to the S-IV B" (cited below).  |
| 1977-78 | Appointed as Visiting Scholar in Aerospace History, National Air and Space Museum, The Smithsonian Institution (12-month stipend).                      |
| 1979    | History Manuscript Award of the American Institute of Aeronautics and Astronautics: <u>Stages to Saturn</u> (cited below).                              |
| 1980    | Writing Award from Aviation/Space Writers Assoc., South Central Region, for article "To Make A giant Leap" (cited below).                               |
| 1981    | Faculty Fellow, NASA/ASEE, Johnson Space Center (summer).   |
| 1981    | Writing Award from Aviation/Space Writers Assoc., South Central Region, for book <u>Stages to Saturn.</u>   |
| 1982    | Appointment as second-year fellow, NASA/ASEE, Johnson Space Center.   |
| 1982    | Melrose-Thompson Fund, travel stipend (Europe): The European Spacelab and NASA.   |
| 1984    | Chancellor's Distinguished Faculty Award-Research.  |
| 1985    | Writing Award, Aviation/Space Writers Association, South Central Region, for book <u>Flight in America, 1900-1983.</u>                                  |
| 1985    | European Economic Community; stipend for week-long seminar, "History and Politics of the EEC," College of Europe, Bruges, Belgium.                      |
| 1987-88 | Distinguished Lecturer, American Institute of Aeronautics and Astronautics.   |
| 1990    | Guest Lecturer, USSR Academy of Science, Committee on the History of Science and Technology, Moscow.  |

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- 1991 Guest Lecturer, Royal Aeronautical Society and the Rolls Royce Heritage Trust, Derby, England.
- 1991 American Historical Association, Sr. Fellow in Aerospace History.
- 1992-93 Charles A. Lindbergh Chair of Aerospace History, National Air and Space Museum, Smithsonian Institution
- 1993 Stellar Award, presented by the Rotary National Space Achievement Foundation  
Invited participant, National Security Forum, Air University, Maxwell AFB
- 1993-96 Designated as Research Collaborator, National Air and Space Museum, Smithsonian
- 1995-96 Visiting Professor of History, Air War College, United States Air Force
- 1997 American Aerospace Industry cited by American Library Assoc. as one of the outstanding academic books of 1997
- 2002-03 Distinguished Centennial of Flight Lecturer, American Institute of Aeronautics and Astronautics
- 2003 Citation in 2003 as an "Outstanding Academic Title of the Year" from the American Library Association for Testing Aircraft, Exploring Space: An Illustrated History of NACA and NASA, 2003.

### **RESEARCH AND PUBLICATIONS**

Ph.D. Thesis: "Prelude to the Air Age: Civil Aviation in the United States, 1919-1929" (1965).

### **Books**

Editor-in-Chief, Fundamentals of Aviation and Space Technology. Urbana: University of Illinois Institute of Aviation, 1974. pp. ix + 249.

Fundamentals of Aviation and Space Technology.(second printing, 1976).

Stages to Saturn: A Technological History of the Apollo/Saturn Launch Vehicles. Washington, D.C.: Government Printing Office, 1981. pp. xx + 511.

The official history, prepared for the National Aeronautics and Space Administration. AIAA manuscript award, 1979; reprinted, 1997; rev. ed., U. Florida Press, 2003.

Flight Patterns: Trends of Aeronautical Development in the United States, 1918-1929. Athens, Georgia: University of Georgia Press, 1983. pp. xii + 236.

Flight in America, 1900-1983: From the Wrights to the Astronauts. Baltimore and London: The Johns Hopkins University Press, 1984, pp. xii + 356.

Flight in America, 1900-1983. (second printing, 1985)

Flight in America: From the Wrights to the Astronauts (third printing, 1987; revised title; softbound;re-written and updated "Epilogue;" fourth printing, 1991).

Flight in America. Second Edition, 1994; revised and enlarged, pp. xii + 386.

Flight in America. Third Edition, 2001, revised and enlarged, pp. xi + 400.

(Co-author with Jay Miller) Aviation in Texas. Austin: Texas Monthly Press 1985). pp. 288.

(Co-author with Frank Anderson) Orders of Magnitude: A History of NACA and NASA, 1915-1990. Washington, D.C.: Government Printing Office, 1989. pp. x + 167.

The American Aerospace Industry: From Workshop to Global Enterprise. New York: Twayne Publishers, an imprint of Simon & Schuster/Macmillan, 1996. pp.xii + 280.

Cited by American Library Association as an outstanding academic book for 1997.

Revised and re-titled, The Enterprise of Flight: The American Aviation and Aerospace Industry. Washington: Smithsonian Institution Press, 2001. pp. xviii + 280.

Airlift and Airborne Operations in World War II. Washington DC: Office of Air Force History (USAF in WWII series monograph) 1998. pp. 51.

Testing Aircraft, Exploring Space: An Illustrated History of NACA and NASA. Baltimore and London: The Johns Hopkins University Press, 2003. pp.xv + 218.

### Journals, Book Chapters, and Reference Works

"Putting Aircraft to Work: The First Air Freight," Ohio History (Autumn, 1967), 247-58; 277-79.

"Technology and Commerce: Aviation in the Conduct of American Business, 1918-1929," Technology & Culture (July, 1969), 392-411.

"Aircraft for the Space Age: The Guppy Series of Transports," Aerospace Historian (Summer, 1974), 79-86.

"Early Flight;" "Evolution of Modern Aviation;" "Space Exploration: Historical Background;" plus other topics in Bilstein, ed., Fundamentals of Aviation and Space Technology (see above). 12,000 words.

"Sources in Aerospace History: The Oral History Collection at Columbia University," Aerospace Historian, XXII (Spring, 1975), pp. 46-47.

"Aerospace Education: A Bibliographical Note," Journal of Aerospace Education (January, 1976), pp. 27-29.

Reprinted in Wayne Matson, ed., The Book of Aerospace Education. Washington, D. C.: Aerospace Education Association, 1978.

Henry Howard" (industrial chemist), in John Garraty, ed., Dictionary of American Biography: Supplement Five, 1951-55. New York: Scribner's, 1977.

"R. W. Schroeder" (aviation executive), in John Garraty, ed., Dictionary of American Biography: Supplement Five, 1951-55. New York: Scribner's, 1977.

Bibliographical note on "General Aviation," Astronautics and Aeronautics: Journal of the American Institute of Aeronautics and Astronautics (January, 1978), pp. 70-71.

Bibliographical note on "Airports," *ibid.*, (July/August, 1978), p. 108.

"The Wrights, The Airplane and the American Public," in Richard P. Hallion, ed., The Wright Brothers: Heirs of Prometheus. Washington, D.C.: National Air and Space Museum, Smithsonian Institution (1978), pp. 38-51. Book received national award from Aviation/Space Writers Association, 1978. Continues to be in print.

"From the S-IV to the S-IVB: The Evolution of a Rocket Stage for Space Exploration," Journal of the British Interplanetary Society, (December, 1979), pp. 452-58. 9,100 words.

"The Saturn Boosters," in Richard P. Hallion and Tom D. Crouch, eds., Ten Years Since Tranquility: Reflections Upon Apollo II. Washington, D.C.: National Air and Space Museum, Smithsonian Institution (1979), pp. 114-23.

"Oliver Buckley" (physicist and telephonic engineer), in John Garraty, ed., Dictionary of American Biography: Supplement Six, 1956-1960. New York: Scribner's, 1980.

"E. P. Warner" (international aviation administrator), in John Garraty, ed., Dictionary of American Biography: Supplement Six, 1956-60. New York: Scribner's, 1980.

"To Make a Giant Leap: Rocket Engines for Manned Lunar Missions," in Kent Newmyer, ed., Historical Essays in Honor of Kenneth R. Rossman (Doane College, NB, 1980), pp. 11-38.

"Military, Government, and Space Age Policies" (commentary) in Anaëjinou, Paul, et al., eds., Space and Society: Challenges and Choices. San Diego: Univelt, 1982, pp. 83-85.

"Frank Whittle," in Great Lives from History: British and Commonwealth Series. Los Angeles: Salem Press, 1988, pp. 2584-88. 2,500 words.

"Aerospace Industry," Encyclopedia of Southern Culture. University of North Carolina Press, 1989. 800 words.

"Technology in the South," *ibid.* 2,100 words.

"Edward Pearson Warner and the New Air Age," in William M. Leary, ed., Aviation's Golden Age: Portraits from the 1920s and 1930s. Iowa City: Univ.of Iowa Press (1989), pp. 113-26, 170-173.

"Technologie et Commerce: le role de l'aviation dans la conduit des affaires aux Etats-Unis (1918-1929)," Culture Technique, no. 19 (1989), pp. 181-190. A translation from my original article in Technology and Culture (July, 1969).

"The Foreign Connection: International Suppliers to The American Aerospace Industry," in Edward Perkins, ed., Essays in Economic and Business History. Los Angeles: History Department, University of Southern California (1990), pp. 30-39..

"Aviation and the Changing West," Journal of the West (January, 1991), pp. 5-17. Editor's award as "Best Article" of ten titles in this special issue on aviation.

Extended essays (Tom Braniff; Harding Lawrence; C.R.Smith; Edward Pearson Warner; International Civil Aviation Organization; ICAO Congress of 1944; Braniff Airlines), in William Leary, ed., The

Airlines, a volume in Encyclopedia of American Business and Industry. New York: Facts on File (1992). 21,000 words.

"Travel by Air: The American Context," Archiv fur Sozialgeschichte, vol. 33 (1993). pp. 275-288.

"On Gas Turbines, Nuclear Physics, and Mr. Birdseye," National Forum, 75 (Fall, 1995), pp. 37-40. 3,000 words.

"Air Travel and the Traveling Public: The American Experience, 1920-1970," in William Trimble, ed., From Airships to Airbus: The History of Civil and Commercial Aviation, vol. 2. Washington: Smithsonian Institution Press (1995), pp. 91-111.

"Aerospace Technology," in Stanley Kutler, ed., Encyclopedia of the United States in the Twentieth Century. New York: Simon and Schuster (1996). 15,000 words.

"Aviation," New Handbook of Texas, Vol. I. Austin: Texas State Historical Association (1996). 1,000 words.

"From Colony to Commonwealth: The Rise of the Aerospace Industry in the West," Journal of the West (January, 1997), pp. 8-20.

"Intersections of Aeronautics: Politics, Plans, and Policies in Texas, 1945-1998," in Janet Bednarek and Tom Crouch, eds., The Meaning of Flight in the 20<sup>th</sup> Century. Dayton: Wright State University Press (1999). pp. 438-449.

"Thomas E. Braniff" (airline pioneer); "William P. Lear" (inventor); "Cyrus R. Smith" (airline executive); "Theodore P. Wright (aero industry executive); in John A. Garraty, ed., American National Biography. New York: Simon and Schuster (1999). pp. 223-252. 4,200 words total.

"Airlines, Entrepreneurs, and Bureaucrats: The American Experience" in Hans Dienel and Peter Lyth, eds., Flying the Flag: European Commercial Air Transport Since 1945. New York: St. Martin's Press / London: Macmillan (2000). pp. 223-253.

"American Aviation Technology: An International Heritage," in Peter Galison and Alex Roland, ed., Atmospheric Flight in the Twentieth Century. Dordrecht, The Netherlands / Boston: Kluwer Academic Publishers (2000). pp.207-222.

"C. R. Smith: An American Original," in William Leary and David Lewis, eds., Airline Executives and Federal Regulation. Columbus: Ohio State University Press (2000). pp. 83-124.

"Aeronautics," entry in Marc Rothenberg, ed., The History of Science in the United States: An Encyclopedia. New York: Garland Press (2000). 1,000 words.

"Aviation Industry" and "Missiles and Rockets," entries in Paul Boyer, ed., The Oxford Companion to United States History. New York: Oxford University Press (2001). 1,500 words.

"Defining Moments," Air & Space / Smithsonian (Centennial Edition), (March, 2003), pp. 52-61.

“The Technology of Flight: Three Sides of a Coin,” in Roger Launius and Janet Bednarek, eds., Reconsidering a Century of Flight. Chapel Hill, University of North Carolina Press (2003) pp.15-49.

“Aerospace,” entry in David Wishart, ed., Encyclopedia of the Great Plains. Lincoln: University of Nebraska Press (2003). 750 words.

“The Airplane and Popular Imagination,” in Dominick Pisano, The Airplane in American Culture. Ann Arbor: University of Michigan Press (2003), pp. 16-35.

“Airplanes,” in Carroll Purcell, ed., Blackwell Companion to American Technology. Oxford, United Kingdom: Blackwell Publishers (2004). Major entry of 10,000 words.

“Apollo/Saturn Launch Vehicle” and “Polar Flights” in David Buisseret, ed., Oxford Companion to Exploration, New York, New York, Oxford University Press (in press).

“Donald Douglas: From Aeronautics to Aerospace,” in Virginia Dawson and Mark D. Bowles, eds., Realizing the Dream of Flight. NASA, Washington, DC, 2005.

#### **Articles and Entries in Comprehensive Encyclopedias**

Entries on "Air Mail" and "Barnstorming" for the Academic American Encyclopedia. Princeton, N.J.: Arete Publishing Company, 1980.

"Airports," Funk and Wagnalls New Encyclopedia. New York: 1983. 1,400 words.

"Air Traffic Control," *ibid.* 1,600 words.

"Air Transport Industry," *ibid.* 2,000 words.

"Aerospace Industry (origins and characteristics)," in Academic American Encyclopedia. Danbury, Conn.: Grolier, Inc. 1984. 2,000 words.

Revision of article, "Aviation," *ibid.* 1984. 5,000 words.

"Military and Naval Affairs," in Funk and Wagnalls Encyclopedia Yearbook. New York: Macmillan, 1984. 800 words.

Miscellaneous entries for revised volumes of World Book Encyclopedia. Chicago: World Book, Incorporated, 1986-1990. (Autogyro; Ornithopter, Robert Goddard; Wright Brothers; Amelia Earhart; Alberto Santos-Dumont; Igor Sikorsky; Frank Whittle; Sir George Cayley; Edwin Link; Jerome C. Hunsaker; Alexander de Seversky; Wiley Post; Cape Canaveral).

Revision of article, "Aviation," in World Book Encyclopedia. Chicago: World Book, Incorporated, 1990. 7,000 words.

“The Aerospace Industry.” Major entry (5,000 words) for Encarta Reference Suite 2001. (CD-ROM). Redmond, WA: Microsoft, 2000.

"Pistons in the Air." Major section (2,400 words) for Encyclopedia Britannica, entry on "Aviation History." Chicago: Encyclopedia Britannica, Inc. (in press, 2003).

#### **Articles: Consecutive Annual Summaries/Encyclopedias**

"Aerospace," a major essay in Collier's Encyclopedia Yearbook. New York: Macmillan (1979 - 1993). Annual summary and industry review of American and foreign developments. 3,500 - 4,000 words each year. Total of 15 articles.

Annual contributor, "Transportation," in Funk and Wagnalls New Encyclopedia Yearbook. New York: Macmillan (1986 - 1993). Annual summary covered aviation topics; 300-500 words each year. Total of 7 contributions.

#### **Articles: Miscellaneous**

"NASA'S Spacelab Missions: The European Connection," In Between Magazine (November, 1982), pp. 17-18. Regional news digest.

"NASA and a New Era," Pride (April, 1984), pp. 9-11. Magazine published by the University of Houston Systems office.

"Hobby Airport: Fifty Years of Flight," Business (Fall, 1987), pp. 26-30. Pearland-Hobby Chamber of Commerce.

"Fighter Aircraft," Book of Days. Ann Arbor, Mich.: Pierian Press, 1987.

"Airline Terrorism," ibid., 1988.

"Wings of Change--90 Years of NASA Innovation that Revolutionized World Aviation," History Channel Magazine, July, August, 2005, pp 36-45

"Pioneering Passengers: Global Air Travel by Airship and Plane on Commercial Airlines in 1936," History Channel Magazine, (in press, May/June, 2007 issue).

**OTHER RESEARCH: PROJECT REPORTS, STUDIES, AND MUSEUM SCRIPTS**

The Saturn Management Concept. Huntsville, Alabama: National Aeronautics and Space Administration/Marshall Space Flight Center, NTIS/NASA CR-129029 (1974). pp. 75.

International Aerospace Engineering: NASA Shuttle and the European Spacelab. Project Report, NASA/American Society for Engineering Education, Summer Faculty Fellow (1981), pp. 25.

Principal exhibit consultant and co-author, "Reach for the Sky" script for exhibit on aviation and aerospace in Texas, 1861 to 1985, Institute of Texan Cultures of the University of Texas (San Antonio, October, 1985-July, 1986). Exhibit Space: 600 linear feet.

The Space Station: Early Configurations and Phase-B Studies. Report, NASA Johnson Space Center, JSC-32079 (1987). pp. 68. Prepared as part of NASA/Johnson Space Center contract. The principal effort (1984-86) involved development of a SpaceStation archival file totaling 115 linear feet, housed in the JSC History Office.

Evolution of the European Aerospace Industry. Report, Advanced Technology Management Project, NASA/JSC and Univ. of Houston-Clear Lake. (Summer, 1988). pp. 24.

Co-curator, with Dr. Dominick Pisano, National Air and Space Museum, Phase II of Frontiers of Flight Museum, Love Field, Dallas, Texas. Artifacts, graphics, and scripting. (1990 - 1994).

Air Travel and the Air Age World (an interactive, CD-ROM), Houston: Instructional Technology Center, University of Houston-Clear Lake, 1996.

"Texas and the Centennial of Flight." Script co-author; collaborator on selected photos for Centennial of Flight display, Lower Rotunda of the State Capitol of Texas. Sponsored by the Texas Aerospace Commission, January 2003.

Senior Mentor, National Park Service Project to Identify Historically Significant Aviation Sites. Sponsored by the NPS and the Organization of American Historians, 2006-2007.

National Park Service Historic Sites Project, "Evolution of an American Aerospace Industry," (narrative chapter in press).

Ad Hoc consultant, National Geographic Magazine.

**PAPERS, SYMPOSIA, AND OTHER PRESENTATIONS (SELECTED EXAMPLES):** \_

"Technology and Commerce: The Aircraft Factor," Wisconsin College Teachers' Association (October, 1966).

"Science and Technology in Retrospect: The 1920s," Symposium on Science and Technology in the 1970's, University of Alabama in Huntsville (April, 1971).

"The Apollo/Saturn Launch Vehicles: Technological Innovation and the History of Technology," Institute of Aviation Symposium, University of Illinois, Urbana (November, 1971).

"Evolution of Aeronautical Technology: The 1920s," joint meeting, Society for the History of Technology/American Historical Association, New York (December, 1971).

"Research, Development, and Technology in the Soviet Union: An Historical Summary & Analysis," Symposium on the U.S.S.R., University of Alabama in Huntsville (April, 1972).

"The Saturn V Program Office: Continuity and Change in Aerospace Management," joint meeting, Society for the History of Technology/American Historical Association, San Francisco (December, 1973).

"The Saturn Rockets: Technological Transfer and Innovation," XVth (Triennial) International Congress of the History of Science, Edinburgh, Scotland (August, 1977).

An invited paper, "The Impact of General Aviation in Society," Wright Brothers Commemorative Symposium, University of Wisconsin-Milwaukee (October, 1978).

An invited paper, "The Wrights, The Airplane, and The American Public," Symposium Commemorating the 75th Anniversary of the First Powered Flight, National Air and Space Museum, Washington, D.C. (December, 1978). Published in the symposium's proceedings, The Wright Brothers (cited above).

Organizer and chair for a symposium, "Getting Into Orbit: Historical Perspectives on the American Space Program," Annual Meeting, American Association for the Advancement of Science, Houston, Texas (January, 1979).

"A Myriad of Wings: Socio-Economic Aspects of the General Aviation Sector," Humanities and Technology Conference, Southern Technical Institute, Marietta, GA (October, 1979). Papers/Symposia (Cont'd)

Invited participant, "Pro-Seminar in Aerospace History," National Air and Space Museum, Smithsonian Institution (May, 1981).

"NASA's Shuttle and Europe's Spacelab," joint meeting, Society for the History of Technology, History of Science Society, and related societies, University of Pennsylvania, Philadelphia (October, 1982).

Invited paper, "Air Transportation and Air Travel in the 1920's." Symposium sponsored by the Air Force Historical Foundation and the American Military Institute, Smithsonian Institution (April, 1983).

Invited paper, "Aerospace Legacy: Development and Significance of Aviation and Astronautics in Texas." Paper commissioned by the Texas Commission on the Humanities, presented at the annual meeting of the State Historical Society of Texas, Ft. Worth (March, 1985).

Invited public lecture, "The Culture of Flight." Institute of Texan Cultures of the University of Texas, San Antonio (January, 1986).

Invited lecture, "The Frontier of Flight," Symposium on Myth and Modern Culture, Texas A & M University, College Station (April, 1986).

Co-organizer "Space and the Human Dilemma," a day-long public symposium, sponsored by NASA and local technical societies; funded by the Texas Committee for the Humanities, Houston (July, 1986).

Invited lecture, "Back to the Future: Milestones in Aviation Progress." Keynote address, 25th Aerospace Sciences Meeting of the American Institute of Aeronautics and Astronautics. Reno, Nevada (January, 1987).

"Resources in NASA History," Conference of Historical Aviation Writers, San Diego (October, 1987).

"International Aerospace Trends: Astronautics," Space History Session, Worldwide History Meeting, Air University, Maxwell Air Force Base, Alabama (November, 1987).

"Aviation in Urban Life: Houston as a Case Study," paper for Technology, Communications, and the Humanities Conference. Sponsored by the Institute for Advanced Studies in the Humanities, University of Edinburgh, Scotland (August, 1988).

"Internationalization of the American Aerospace Industry." Economic and Business History Society, Charleston, S.C. (April, 1989).

Colloquium (by invitation) International Conference on Aerospace History, National Air and Space Museum; Chair of Session "Problems of Writing Official Histories." Washington, DC (April, 1990).

Invited lecture, "International Influences in American Aerospace," U.S.S.R. Academy of Sciences, Committee on the History of Science and Technology. Moscow, U.S.S.R. (July, 1990).

"Aviation and the Environment," American Society for Environmental History. Houston, Texas (March, 1991).

Invited lecture, "The Foreign Legacy to America's Aerospace Industry," the Royal Aeronautical Society and the Rolls-Royce Heritage Trust. Derby, England (May, 1991).

“International Elements of American Aerospace.” Society of Automotive Engineers, Aerospace Meeting, Dayton, OH (May, 1992).

Invited paper. “Air Travel and the Traveling Public: The American Experience, 1920-1970.” International Conference on the History of Aviation. Swiss Transport Museum, Lucerne (August 19-23, 1992).

“Sources of American Aerospace Technology.” Invited presentation to graduate seminar, Dept. of Aerospace Engineering, Univ. of Maryland, College Park (April, 1993).

“International Legacies and American Air Power,” lecture to Advanced Staff Seminar, Center for Air Force History, Bolling AFB, Washington, DC (April, 1993).

Chair, session on Federal History and Aerospace Programs, Public History Association, Valley Forge, PA (May, 1993).

Participant, National Public Radio, Talk of the Nation, “90th Anniversary for the Wright Brothers First Flight,” (December 17, 1993).

“The Significance of Apollo,” Symposium on the 25th anniversary of the First Lunar Landing. Auburn University, AL (October, 1994).

“The U.S. and the Creation of the Global Air Transport Network,” International Conference for the Comparative Study of Civilization. Wright State University, Dayton, OH (April, 1995).

“The Wrights and Early Perceptions of Flight.” Symposium honoring the premiere of “The Wright Stuff,” a documentary for PBS. Wright State University, OH (January, 1996).

Invited contributor, International Roundtable on Postwar European Airlines. Deutsches Museum, Munich, Germany. (March, 1995); (April, 1996). Travel stipends and per diem.

Commentary and discussion, session on “Dynamics of Postwar European Airlines.” Papers by four European scholars. Society for the History of Technology / History of Science Society. Imperial College, London, England. (August, 1996).

Invited paper, “American Aerospace Technology: An International Heritage.” Symposium on the Evolution of Flight in the 20th Century, Dibner Institute for the History of Science and Technology, Massachusetts Institute of Technology, Cambridge, MA (April, 1997).

“The Invisible Infrastructure: A Second Look at Selected Topics in Aviation History.” Conference of Historical Aviation Writers, Midland, TX (November, 1997).

Commentary, AHA annual meeting, session with five papers by winners of the AHA Fellowship in Aerospace History. Washington, D.C. (January, 1998).

Invited paper, "Intersections of Aeronautics: Postwar Texas," National Aerospace Conference, "The Meaning of Flight in the 20<sup>th</sup> Century," Dayton, OH (October, 1998).

Invited lecture, "Milestones in Aerospace Progress," Dallas-Fort Worth Association of Professional Engineers, annual dinner meeting, Fort Worth, TX (November, 1998).

Invited lecture, "The Golden Age of Aviation," Smithsonian Traveling Associates, Smithsonian Institution, Washington, D.C. (November, 2000).

Keynote address, "Aviation Technology: Three Sides of a Coin," International Flight Symposium / First Flight Centennial Commission, University of North Carolina, Raleigh, NC (October, 2001).

Invited lecture, "Perspectives on the History of Flight." San Antonio Section, AIAA (June, 2002).

Invited lecture, "An Interpretive Review of Aviation History." American Airlines and the C.R. Smith Aviation Museum Foundation. DFW Airport, Dallas, TX (July, 2002).

Keynote Address, "They Also Served: Women in World War II." The Steel Oleanders and the Galveston Historical Foundation. Lone Star Aviation Museum, Galveston, TX (October, 2002).

Invited lecture, "Aerospace in the Lone Star State." AIAA and Ft. Worth Association of Professional Societies, Texas Christian University, Ft. Worth, TX (November, 2002).

Public lecture, "Heritage of Flight: Aviation in Texas." Flight Centennial Reception, Texas State Historical Museum, sponsored by the Texas Aerospace Commission, Austin, TX (January, 2003).

Invited lecture, "Three Sides of a Coin: An Historian's Look at Some Technical, Political, and Cultural Milestones in Flight." AIAA Distinguished Centennial Lecture Program, AIAA Minnesota Section, Minneapolis, MN ( May, 2003)

Invited lecture, "Donald Douglas: A Career in Flight." Smithsonian Institution, NASA, and associated societies, Centennial Symposium on the History of Flight, Cleveland, OH ( November, 2003).

--Various chaired sessions; local/regional presentations to educational, government, and civic groups; radio and television interviews on aerospace topics.

## REVIEWS

Over 275 published to date, in Choice; Library Journal; Spaceflight (U.K.); American Historical Review; Journal of American History; Ohio History; Technology and Culture; Air University Review; Pacific Historical Review; Annals of Science (U.K.); Aerospace Historian; Maryland Historical Magazine; Journal of Southern History; ISIS; Archives Internationales d'Histoires des Science; Journal of Policy History; others.

## MISCELLANEOUS EXPERIENCE

Editorial referee/consultant: Aerospace Historian; Technology and Culture; National Geographic; Business History Review; H. Holt and Company; National Air and Space Museum; University of Washington Press; University of Pittsburgh Press; University of Alabama Press; Smithsonian Institution Press; Naval Institute Press; University of Georgia Press; University of Illinois Press; Harper & Row; University of Michigan Press; Texas A&M Press; Oxford University Press; Johns Hopkins University Press; state historical societies; others.

Fellowship referee: National Museum of History and Technology; National Science Foundation; American Philosophical Society; National Air and Space Museum; National Endowment for the Humanities.

Promotion and Tenure referee: Alabama; Kansas; Michigan; Missouri; Ohio; Tennessee; Texas; District of Columbia

Consultant, NASA/Saturn History Project, Research Institute, University of Alabama in Huntsville, 1972-74.

Sometime advisor, Aviation Collection, Humanities Research Center, University of Texas-Austin, 1975, 1976.

Consultant, Oral History Project, National Air and Space Museum, 1976.

Ad hoc consultant, Corporate Aircraft History Project, Continental Oil Company, 1980-81.

Consultant, Time-Life Books, The Air Mail (a volume in the "Epic of Flight" series) 1980-82.

Director, Aerospace Education Resources Center, University of Houston-Clear Lake, 1975-1980.

History Advisory Committee, American Institute of Aeronautics and Astronautics, 1977-1980.

Abstractor for ABC/CLIO Press, America: History and Life. 1980-1986.

Appointment to Editorial Advisory Board of the Aerospace Historian, 1982-1988.

Elected to the Advisory Council of the Society for the History of Technology, 1983-1988.

Consultant, Institute of Texan Cultures of the University of Texas, San Antonio, for aerospace exhibit, 1984-1985.

Consultant, Air Force Research and Development Command, 1986, for analysis of archival standards and practices.

Appointment to Editorial Advisory Board, Smithsonian Institution Press, 1987-1999.

Consultant, Zenda, Inc./Air Force Sergeants' Association, for museum dedicated to enlisted USAF personnel (1989-1990).

Consultant, NASA/Marshall Space Flight Center, for development of institutional history of MSFC (1989-1996).

Appointment to Advisory Committee, United States Air Force History Program; elected as Chair. Committee reported directly to the Secretary of the Air Force. 1992-93.

Appointment to Advisory Board, United States Air Force Museum Program. 1992-1994.

Ad hoc consultant, Lone Star Flight Museum, Galveston, TX 1993-2000.

Nominating committee, Texas Aviation Hall of Fame, Galveston, TX. 1997-2000.

Consultant, Henry Ford Museum and Greenfield Village, major new exhibit on aviation history, January, 2001.

Consultant, Pacific Street Films and PBS, documentary project on aviation history, 1999 – 2002.

Consultant, National Inventors Hall of Fame Foundation (selection panel for aviation candidates, Flight Centennial inductees), 2002.

Co-consultant, historical components, Centennial of Flight Committee, Texas Aerospace Commission, 2002-03

Consultant, National Geographic Magazine, for two-sided, pull-out poster supplement on the history of flight, special issue for December, 2003

Contributing Editor, Air and Space, published by the National Air and Space Museum/Smithsonian Institution, 1989 - Current.

Licensed Private Pilot (inactive).

### **PROFESSIONAL ORGANIZATIONS**

Aviation/Space Writers Association.  
Economic and Business History Society.  
Organization of American Historians.  
Phi Alpha Theta.

Phi Kappa Phi.  
Society for the History of Technology.  
Texas State Historical Association