

Harold Andrews

"Hal"

- Dates of Navy Active Duty:
- 1944-46 U. S. Navy.
- 1946-54 U. S. Navy Reserve.
- 1950-51 Active Duty, Aviation Electronics Technician.

Professional Experience:

1948-50	Draftsman/ Jr. Engineer, Boeing Aircraft
	Company
1955-61	Stability& Control Engineer, BUAER.
1961-66	Assistant Head, Stability & Control Section,

- Airframe Division, BUAER. 1966-71 Head, Stability & Control Section, Airframe Division, BUAER.
- 1971-7 Head, Aerodynamics & Hydrodynamics Branch, Airframe Division, NAVAIR.
- 1973-77 Technical Director, Airframe Division, NAVAIR.
- 1977-80 Director, Advanced Aircraft Development Office, NAVAIR.
- 1980-84 Associate Technical Director, Research & Technology, NAVAIR.
- 1984-86 Technical Director, Research & Technology, NAVAIR.
- 1987 Independent consultant with several part-time agreements involving work for the Navy, FAA and DARPA in advanced aeronautical systems and their technologies.

Significant Career Events

- The distinction of being the only NAVAIR Civilian Engineer to "depart" the F8U Crusader in flight. The TF-8 at Dallas with Chance Vought test pilot Stuart Madison in 1967.
- (2) Co-Manager, IAS/AIAA Project 60: Construction of Reproduction 1903 Wright Flyer for Visitors Center at Kitty Hawk, NC.



Technical Publications:

- 1952 Co-author: "Evaluation & Analysis of the Soviet IL-10 Aircraft" and Evaluation & Analysis of the Soviet MIG-15 Aircraft", Cornell Aeronautical Laboratory.
- 1954 Author: "Lateral Forces & Moment Characteristics of Pneumatic Tires", Cornell Aeronautical Laboratory.
- 1963 Author: Various aviation sections, "The Harper Encyclopedia of Science", Harper & Row, 1963.
- 1964 Author: "The Case for Flying Qualities Standards", IAS General Aviation Meeting, Wichita, Kansas.
- 1966 Co-author: "Human Dynamics & Aircraft Flying Qualities", AGARD, Paris, France.
- 1971 Author: "Stall/Spin A NAVAIR View", Stall/ Post Stall/Spin Symposium, Wright-Patterson AFB, OH.
- 1972 Co-author: "Highly Maneuverable Fighter Aircraft Technology", Joint DoD/NASA Aeronautical Research & Development Study, Aeronautics Panel, AACB.
- 1978 Co-author: "Technical Evaluation Report of the Multi-Panel Symposium on Fighter Aircraft Design", AGARD Report AR-119.
- 1989-90 Author: Frequent talks on technology, advanced aircraft and VSTOL aircraft at professional society meetings. Typically, Co-author,
 "Application of Synthesized Tactics to the Design & Evaluation of VTOL, VSTOL, and STOVL Aircraft", AIAA/AHS/ASEE Aircraft Design at Operations Meeting, August, 1989. Co-author,
 "The North American Rockwell FV-12A Reflections and Some Lessons:, AIAA/AHS/ASEE Design, Systems & Operations Meeting, 1990.
- Historical Publications
- 1966 Author: "The Curtis SB2C-1 Helldiver" and "The Grumman F8F-1 Bearcat", historical monographs covering design, development and operation of these aircraft, Profile Publications, Leatherhead, England.

Historical Publications continued

1957-06 Author: Various articles similar to above on spe cific aircraft, or on aircraft generally, in Naval Aviation News, Aeroplane Monthly, Air Enthusiast, Wings, Airpower, Wings of Gold, and Skyways. Most recently, "Fame - Sort of. The Northrop and Vought Fighters of the 1930s", Skyways October 1998 and April 1999, and Beyond the Scenes of New Technology", Naval Aviation News", Nov.- Dec. 1999.

Biographical Data

- Born: Ithaca, NY, December 27, 1924
- 1948 BS degree, Mechanical Engineering, Cornell University.
- 1953-55 Cornell Graduate School, Aeronautical Engineering.
- 1968-98 Course coordinator and lecturer, Overview Aircraft Design and Development, University of Virginia for the Naval Air Systems Command.
- 1987-91 Member, National Advisory Committee, University of Tennessee Space Institute Tullahoma, TN.
- 1995-Pres Lecture, VSTOL Programs-Some Lessons in UTSI/AIA VSTOL Committee Short Course
- 2006 Elected Fellow, American Institute of Aeronautics and Astronautics