



*The Central Florida Section of the
American Institute of Aeronautics and Astronautics*

*Cordially invites you to join us with Dr. John Anderson, Jr. in a celebration of
achievement and accomplishment for the year of 2012 – 2013.*

April 18th, 2013

at the Westerly's Restaurant at MetroWest Golf Club

[Westerly's Website](#)

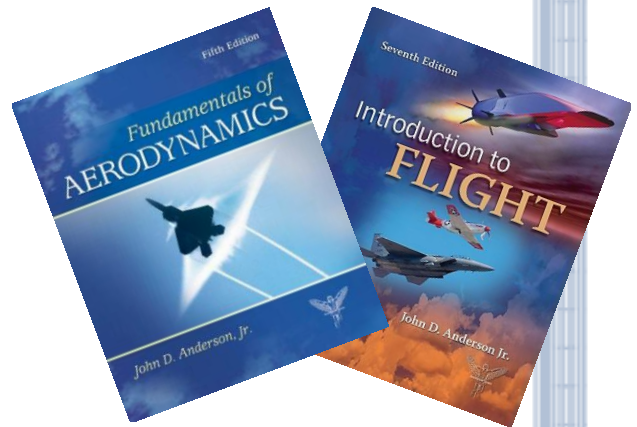
Agenda

6:00 – 6:45 Networking (Cash Bar)

6:45 – 7:00 Awards Presentations

7:00 – 7:30 Dinner

7:30 – 9:00 Guest Speaker & Closing Remarks



Costs

Student Members: \$18

Student: \$20

Members: \$30

Non-members: \$32

*Payment may be made at the door via cash or check. Food is paid for in advance,
so no-shows will still be charged. Please RSVP no later than April 12th, 2013.*

RSVPs may be submitted to the following link: [RSVP Link](#)

Dr. John Anderson, Jr.

Breaking The Sound Barrier: The Intellectual Breakthroughs in Aerodynamics That Made It Possible



On October 14, 1947, the small but beautiful Bell X-1 became the first piloted airplane to fly faster than sound, with Captain Chuck Yeager at the controls. This flight was a breakthrough in the history of the airplane; Yeager and the X-1 had broken the “sound barrier”. But this flight was made possible by three centuries of breakthroughs in the intellectual understanding of high-speed aerodynamics. This presentation deals with these breakthroughs. We will see how our understanding of sound waves and shock waves evolved, and how the mysteries of high-speed aerodynamics were slowly revealed, allowing people and flying machines to finally achieve what was considered by some to be impossible – flying faster than the speed of sound. The roles of science, engineering science, and engineering will be discussed. This presentation is for a general audience as well as for engineers and scientists. It tells one of the most exciting stories in the history of fluid dynamics and aerodynamics.

Biography:

Dr. John Anderson, Jr. was born in Lancaster, Pennsylvania on October 1, 1937. He attended the University of Florida, graduating in 1959 with High Honors and a Bachelor of Aeronautical Engineering Degree. From 1959 to 1962, he was a Lieutenant and Task Scientist at the Aerospace Research Laboratory at Wright-Patterson Air Force Base. From 1962 to 1966, he attended the Ohio State University under the National Science Foundation and NASA Fellowships, graduating with a PhD in Aeronautical and Astronautical Engineering. In 1966, he joined the U. S. Naval Ordnance Laboratory as Chief of the Hypersonic Group. In 1973, he became Chairman of the Department of Aerospace Engineering at the University of Maryland, and since 1980 has been a professor of Aerospace Engineering at Maryland. In 1982, he was designated a Distinguished Scholar/Teacher by the university. During 1986–87, while on sabbatical from the university, Dr. Anderson occupied the Charles Lindbergh chair at the National Air and Space Museum of the Smithsonian Institution. He continued with the Air and Space Museum one day each week as their Special Assistant for Aerodynamics, doing research and writing a book on the history of aerodynamics. In addition to his position as professor of aerospace engineering, in 1993 he was made a full faculty member of the Committee for the History and Philosophy of Science and in 1996 an affiliate member of the History Department at the University of Maryland. In 1996 he became the Glenn L. Martin Distinguished Professor for Education in Aerospace Engineering. In 1999 he retired from the University of Maryland and was appointed Professor Emeritus. He is currently the Curator for Aerodynamics at the National Air and Space Museum, Smithsonian Institution.