



## ALAN C. BROWN

Alan Brown retired in February, 1992, as Director of Engineering at Lockheed Corporate Headquarters. His two principal concerns there were the promulgation of Concurrent Engineering and Stealth Technology throughout the Corporation. He has given invited papers on both these subjects at national and international levels.

From 1975 to 1989 he was a member of the Lockheed Advanced Development Projects, colloquially known as the "Skunk Works". He served first as the deputy program manager for the Have Blue low-observable research aircraft. He then became program manager and chief engineer for the F-117A Stealth Fighter from initial concept until the first production aircraft was built, 1978 to 1982, and from 1982 to 1989 was Director of Low Observable Technology.

He joined Lockheed in 1960, starting in the physics laboratory of the Lockheed Missiles and Space Company in Palo Alto. He moved to the aircraft company in Burbank in 1966, working on propulsion installation on the Supersonic Transport and the FX and VSX aircraft (which later became the F-15 and S-3A respectively), and was engineering manager for the Lockheed group at Rolls-Royce on the L-1011 commercial transport program.

He began his aeronautical career with an engineering apprenticeship at Blackburn Aircraft in England from 1945 to 1950. After obtaining a Diploma of the College of Aeronautics, Cranfield, in 1952, he worked at Bristol Aeroplane Company as an aerodynamicist prior to going to the United States in 1956. He worked as a research associate and lecturer at the University of Southern California, and as a research associate at Wiancko Engineering Company before joining Lockheed.

Since retirement from Lockheed, he has taught short courses at Cranfield University, England, Linköping University, Sweden, Georgia Institute of Technology, and the U.S. Navy Post-graduate School in Monterey, California. He has been active in the University of California Mathematics, Engineering and Science Achievement (MESA) program for middle and high schools from 1994 until 2010, serving on the state committee, and working particularly with Watsonville High School. Occasionally seen on Discovery and History channels on Stealth and Fighter documentaries.

### Education

Hull Technical College, England, Diploma in Aeronautical Engineering, 1950.

Cranfield Institute of Technology, England, Diploma of the College of Aeronautics, (later renamed MSc, Aeronautical Engineering), 1952.

Stanford University, USA, MS, Aeronautical Engineering, 1969.

### Honors and Awards

Fellow, American Institute of Aeronautics and Astronautics (AIAA).

Fellow, Royal Aeronautical Society, England.

Member, National Academy of Engineering, USA.

Recipient, AIAA Aircraft Design Award, 1990.

Honorary Doctor of Science, Cranfield University, 2001