

McSwain Engineering, Inc.

RICHARD H. McSWAIN, Ph.D, P.E.

Curriculum Vitae

PRIMARY AREAS OF EXPERTISE:

Failure analysis, accident investigation, fractography, fracture mechanisms and processes, scanning electron microscopy, metallography, and materials analysis and characterization.

EDUCATION:

Bachelor of Materials Engineering from Auburn University, 1972

Master of Science in Materials Engineering from Auburn University, 1974

Ph.D. in Materials Engineering from University of Florida, 1985

WORK HISTORY:

25+ years as President and Principal Engineer of McSwain Engineering, Inc., Pensacola, FL

14 years with Naval Aviation Depot, Pensacola, FL

3 years with Southern Research Institute, Birmingham, AL

CERTIFICATION:

Registered Professional Engineer, State of Florida, #31149

Registered Professional Engineer, State of Alabama, #28077

AWARDS AND ACHIEVEMENTS:

Department of the Navy Special Achievement Award

Department of the Navy Outstanding Performance Awards

Member of Product Oriented Survey Audit Team for the Presidential Helicopter, 1988

Naval Air Systems Command Lead Technology Engineer for Fractography and

Scanning Electron Microscopy, 1982-1989

Outstanding Alumnus Award, Auburn University, April 2003

Auburn Engineering Achievement Award, October 2003

WORK EXPERIENCE:

Dr. Richard McSwain founded McSwain Engineering, Inc. in 1991. Prior to 1991, Dr. McSwain was a Materials Engineer with the Materials Engineering Laboratory at the Naval Aviation Depot, Pensacola, Florida. He performed aircraft component failure analysis, accident investigation, nondestructive inspection and materials processing for 14 years. He served as group leader for failure analysis and was named head of the Metallic Materials Engineering Branch of the Materials Laboratory in 1988. Prior to Dr. McSwain's work with the Navy, he spent 3 years with Southern Research Institute in Birmingham, Alabama, conducting foundry and materials analysis research. He has written and contributed to many technical publications related to materials engineering and materials failure analysis.