

THOMAS CHARLES WENZEL, MS, PE
ACCIDENT RECONSTRUCTION ANALYSIS, PLLC
5801 Lease Lane
Raleigh, North Carolina 27617

EDUCATION

NORTH CAROLINA STATE UNIVERSITY **Raleigh, NC**
Master of Materials Science and Engineering with a Minor in Mechanical Engineering,
August 1996

NORTH CAROLINA STATE UNIVERSITY **Raleigh, NC**
Bachelor of Science in Materials Science and Engineering, May 1989. Summa Cum Laude

EXPERIENCE

ACCIDENT RECONSTRUCTION ANALYSIS, INC. **Raleigh, NC**
Staff Engineer: January 1991 to Present

Failure analysis and accident investigations, including aviation, medical, mechanical and industrial equipment, corrosion problems, etc. Fire investigation and engineering evaluation of products involved in fires. Materials and metallurgical failure analysis- Material and mechanical testing.

HARRIS CORPORATION **Melbourne, FL**
Advanced Materials & Test Group
Government Aerospace Systems Division
Materials Engineer: May 1989 to January 1991

Specification of materials for space structures. Materials failure analysis. Design review and failure analysis of graphite/epoxy composite structures and adhesives. Extensive evaluation of gold electroplating process.

ACCIDENT RECONSTRUCTION ANALYSIS, INC. **Raleigh, NC**
Assistant Engineer: May 1984 to May 1989

Provided engineering assistance during accident investigations (auto, fire, mechanical, etc.) Microscopic examinations of materials, optical and electron microscopy. Mechanical and materials testing.

HONORS

Tau Beta Pi, Phi Kappa Phi, Alpha Sigma Mu and Phi Eta Sigma honor societies. Outstanding senior award in the Materials Science and Engineering Department in 1989. Program specific award for engineering excellence at Harris Corporation. Award for outstanding contributions to defense systems for failure analysis of a composite structure at Harris Corporation.

**CONTINUING
EDUCATION**

FLORIDA INSTITUTE OF TECHNOLOGY

Graduate level course in the design and analysis of fiber reinforced composite materials,
December 1990

ENGINEERING DYNAMICS CORPORATION

Accident reconstruction course, August 1993

ASM INTERNATIONAL

Course on Heat Treatment of Steel, February 1995

Course on Corrosion, December 1998

Course on Metallurgy of Welding & Joining, December 1999

Course on Fundamentals of Nondestructive Testing, December 2001

RADIATION PROTECTION, INC.

Radiation Safety Training, November 2002

CERTIFICATION

Registered Professional Engineer (PE) in North Carolina - # 20772

Certified Fire and Explosion Investigator (CFEI) – Reg # 9841-4376v

Certified Vehicle Fire Investigator (CVFI)

CLEARANCE

Extended Background Investigation

PUBLICATIONS

“Failure Analysis of Explanted Accufix Leads” Manning CR, Wenzel TC, Overland MK.
PACE, April 1999, Volume 22, No. 4, Part II, Pg. 717.

“Welding Metallurgy’s Putative Influence on Björk-Shiley Convexo-Concave Valve Outlet
Strut Failure” Wenzel TC, Manning CR, Chandler JG, Williams DF. *Journal of Heart Valve
Disease* 1999; 8: 218-231.

“Modeling and Accident Reconstruction” Manning CR, Wenzel TC. ASM Handbook,
Volume 11, Failure Analysis and Prevention, 10th Edition, 2002.