

WALTER S. LAIRD, P.E., C.F.E.I, C.F.I.I., C.M.I., C.F.I.

PROFESSIONAL REGISTRATIONS & CERTIFICATIONS

- Registered Professional Engineer, Mechanical Engineering, in Virginia, Maryland, North Carolina, Florida, Alabama, Georgia, Washington, DC, South Carolina and West Virginia
- IAAI-CFI: Fire Investigator Certified to meet the qualification requirements of NFPA 1033 by the International Association of Arson Investigators
- National Association of Fire Investigators (NAFI)
 - Certified Fire and Explosion Investigator
 - Certified Fire Investigation Instructor
 - Certified Vehicle Fire Investigator
- Certified Marine Investigator
- Certified Amusement Ride Device Inspector, the Commonwealth of Virginia
- Certified Welding Inspector, American Welding Society.

EDUCATION & CAREER DEVELOPMENT

1979	Bachelor of Science, Naval Architecture – Marine Engineering	Massachusetts Institute of Technology
1981	Masters of Science, Ocean Systems and Shipbuilding Management	Massachusetts Institute of Technology
1982	Nuclear Power School	United States Navy
1991	Command and Staff Level Management Course	United States Naval War College
1993	Masters of Science, Materials Engineering	Johns Hopkins University
1995	Protective Coatings and Linings	National Association of Corrosion Engineers.
1997	Traffic Accident Reconstruction	Northwestern University
1999	Investigation of Vehicle Fires	Lee S. Cole & Associates, Inc.
2002	Advanced Fire & Explosion Investigation	University of Eastern Kentucky
2005	Marine Investigations	International Association of Marine Investigators
2011	Vehicle Fire, Arson & Explosion Investigation	National Association of Fire Investigators

AWARDS

Fellow, National Defense Science and Engineering, Johns Hopkins University.
Graduate Fellow, Massachusetts Institute of Technology.

PROFESSIONAL SOCIETIES

National Association of Fire Investigators.
National Academy of Forensic Engineers-Senior Member
National Society of Professional Engineers
International Association of Marine Investigators
International Association of Arson Investigators

FORENSIC INVESTIGATION & TECHNICAL EXPERTISE

Motorcycle crash and causation analysis with over 30 years of operating experience
Heavy equipment accident reconstruction and analysis
Vehicle materials, parts, and mechanical system failures
Vehicle/Equipment fire origin & cause
Welding failures and analysis
Power tools and consumer equipment accident analysis
Marine vessel and equipment analysis
Product liability
Workplace safety
Amusement Park Rides
Corrosion failure analysis
Failures of plastic and metallic plumbing components
Fatigue related failures

SUMMARY OF EXPERIENCE

Lead Forensic Engineer for FORCON International Va. Limited for over 14 years conducting investigations and providing expert testimony in areas of noted expertise.

Program engineer for U.S. Coast Guard vessel construction cost analysis; advanced underwater hull maintenance tool development for U.S. Navy; Engineering for Reduced Ship's Maintenance programs for U. S. Navy including coating systems analysis and evaluation, materials evaluation, corrosion and failure analysis, test program development.

Directed the maintenance of electrical and engineering infrastructure for Six Flags Great Adventure, the second largest amusement park in the U.S. Developed improved maintenance and corrosion control procedures; conducted engineering feasibility analysis for new ride installations and modifications.

Senior Project Engineer, Auxiliary Systems and Materials Engineering for a major naval architecture and marine engineering firm, M. Rosenblatt & Son, Inc.

Lead Engineer in charge of two year investigation of vehicle axle and wheel end component failures.

Program engineer for multi-million dollar amusement ride development and installation at Universal Studios Florida and attractions at the MGM Grand Hotel Theme Park in Las Vegas. Conducted engineering development and reviews regarding materials and systems integration.

Materials research engineer for establishing new research programs which carried out contracted engineering testing and development of materials and processes that minimize corrosion. Managed entire research programs - metastable thin film development and testing, fastener protection systems evaluation and development, materials development and testing, welding analysis, marine corrosion training programs.

Operations Officer, USS CONNOLE (FF-1056). Developed ship's operational and training schedule. Directed operation and maintenance of all electronic Combat Information Systems. Developed ship's overhaul and maintenance programs.

Chief Engineer for Mechanical Systems, USS TEXAS (CGN-39). Directed overhaul of nuclear reactor, steam propulsion, and electrical plant mechanical systems during three year complex overhaul. Managed division responsible for reactor plant chemistry, personnel monitoring and exposure control, reactor plant waste management, and radiological casualty response.

U.S. Naval Academy Faculty. Directed the Material Science curriculum. Developed state-of-the-art computer teaching methods for faculty. Materials Laboratory Manager.

Eaheart Industrial Service Inc. - Operator Safety Training - Forklifts