

E & S Consulting, Inc.

Metallurgical & Materials Engineering

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Edward S. George, C.W.I., P.E.

CURRICULUM VITAE

Formal Education

B.S. Materials Science and Engineering, University of Florida, 1988

M.S. Materials Science and Engineering, University of Florida, 1998

Employment History

- 1997-Present *E & S Consulting – Research & Engineering*, St. Augustine, Florida;
President, Principal Investigator, Forensic Science and Materials Failure Analysis, **Quality Assurance Manager** of Materials Analysis Department
- 2022-Present *WSP USA*
Certified Welding and Coatings Inspector, Quality Control and Quality Assurance, Welding/Coatings Inspection and Non-Destructive Evaluation
- 2006-10 *MACTEC Jacksonville FL*
Project Engineer, Forensic Science Engineer, Certified Welding Inspector
- 1992-97 *Product Liability Consultants, Inc.*, Gainesville, Florida;
Senior Materials Science Engineer, Forensic Science and Materials Failure Analysis
- 1988-91 *Partek Laboratories Incorporated*, Houma, Louisiana;
Thermal Processing Supervisor/Staff Metallurgical Engineer
- 1987-88 *Department of Materials Science and Engineering, University of Florida*, Gainesville, Florida; **Metallurgical Laboratory Technician/Data Acquisition Technician**
- 1986 *Corrosion Engineering Consulting*, Gainesville, Florida;
Metallurgical Laboratory Technician
- 1985 *Metal Fabrication Bellows Corporation*, Ormond Beach, Florida;
Metallurgical Laboratory Technician and Visual Inspector, Quality Assurance Department

Professional Experience

- Court qualified technical expert in criminal and civil court, deposition and trial experience.
- Extensive experience in the field of **failure analysis** involving a variety of products, components, and materials utilized in both industrial and consumer applications.
- Experience in inspection and failure analysis of building materials.
- Proficient in microscopic analysis techniques and digital imagery.
- Proficient in destructive and non-destructive testing techniques and procedures in accordance with the applicable American Society of Testing Materials Standards.
- Direct experience in the field of materials thermal processing and procedures.

Professional Licenses

- Registered Professional Engineer: P.E. #51375 Florida (1997- Present)
- Certified Welding Inspector: C.W.I #07060051 (2007-Present)
- Certified AMPP Coating Inspector Level 1: #104381 (2021-Present)

Professional Committees

- Steering Committee First Coast Technical Institute Applied Welding Program (2002-Present)
- Executive Board Learn to Read Program St John's County, Florida (2004-2021)
- City Commissioner St. Augustine Beach, Florida (2002 to 2010)
- Mayor City Commissioner St. Augustine Beach, Florida (2007)

Professional Development Courses

- Threaded Fasteners and The Bolted Joint presented by The Society of Automotive Engineer
October 2000
- National Advanced Fire, Arson, and Explosion Investigation Science and Technology Seminar presented by the National Association of Fire Investigators
March 2001
- National Seminar on Fire Analysis Litigation presented by the National Association of Fire Investigators
- General Topics in Forensic Engineering presented by the National Academy of Forensic Engineers
January 2002
- Codes, Standards & Government Regulations presented by the National Academy of Forensic Engineers
January 2002

- Fractography presented by the Materials Engineering Institute of ASM International March 2005
- NACE Coating Inspector Level 1 presented by The Association for Materials Protection and Performance (NACE) November 2021

Professional Memberships/Affiliations

National Academy of Forensic Engineers
National Society of Professional Engineers
Florida Engineering Society
American Welding Society
International Society for Fall Protection
NACE International Institute

Publications

Thermal Profiles Measured During Casting of a Steel Hammer Published in “Modeling and Control of Casting and Welding Processes IV,” 1988

Forensic Engineering Analysis of Skylight Failures. Published in “Journal of the National Academy of Forensic Engineers,” Volume XX, Number 2; December 2003

Corrosion Rate Comparison of Cast Versus Wrought Parts Used in the RO Process. Published in “Ultrapure Water,” Volume 21, Number 8; November 2004

Fire Damage Remediation of a Steel Box Aerial Guideway Girder on Miami-Dade Transit’s Metrorail System Presented at the 2007 World Steel Bridge Symposium & Workshop. December 6, 2008, New Orleans, LA

Forensic Engineering Testing of a Chain That Failed Published in “Journal of the National Academy of Forensic Engineers,” Volume XXVIII, Number 2; December 2011

Effect of Plasma Markings on the Fatigue Behavior in Steel (FDOT Project) Published in “Journal of Materials in Civil Engineering,” Volume 28, Issue 9; September 2016 (Co-Authored)

Forensic Engineering and Analysis of Crack Formation in Acetal Resin Nuts Used for Water Supply Lines Published in “Journal of the National Academy of Forensic Engineers,” Volume 38, Number 2; December 2021 (Co-Authored)