

# *E & S Consulting, Inc.*

## **Metallurgical & Materials Science Engineering**

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## **Edward S. George, 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
- 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; 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.
- Extensive knowledge of techniques used in the development of complete and sound **forensic science investigations**. Techniques utilized include; experimentation and examination, technical research and review of literature.
- Experience with the use, application and design of warning labels.
- 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.
- Direct experience in the field of welding and weld testing of various ferrous and non-ferrous metals.

## **Professional Licenses**

- Registered Professional Engineer: P.E. #51375 Florida (1997- Present)
- Certified Fire and Explosion Investigator: C.F.E. #7431-3059 Florida (2001)
- HVAC and Indoor Environmental Quality licensee: #PE-0051375 Florida (2004)
- Certified Welding Inspector: C.W.I #07060051 (2007)

## **Professional Committees**

- Steering Committee First Coast Technical Institute Applied Welding Program
- St. Augustine and St. Johns County Chamber of Commerce
- St. Johns County Economic Development Council
- Mayor of City of St. Augustine Beach

## Professional Development Courses

- Photo Elastic Stress Measurement presented by The Measurement Group  
July 1997
- 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  
July 2001.
- 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

## Professional Memberships/Affiliations

National Academy of Forensic Engineers	National Fire Protection Association
National Society of Professional Engineers	National Association of Fire Investigators
Florida Engineering Society	Florida Planning and Zoning Association
American Welding Society	The Materials Information Society

## 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