



1019 Airpark Drive  
Sugar Grove, Illinois 60554  
Phone: 630-556-9700  
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**Aaron J. Jones, P.E.**  
**Vice President of Transportation and Materials Engineering**

**PROFESSIONAL EXPERIENCE**

2011-Present      ITC Experts ó Sugar Grove, Illinois

Mr. Jones provides consulting engineering services involving materials failure analysis, vehicles, and transportation related equipment. He is also responsible for engineering activities involving product performance, fracture mechanics, machine design, and fire cause and origin analysis in vehicles. Areas of specific failure analysis expertise include: building and structural materials, automotive and transportation equipment, fire cause analysis, pressure vessels and piping, various forms of corrosion, welding and joining, mechanical fasteners, and consumer products including appliances and their subcomponents.

1998-2011      Packer Engineering, Inc. Naperville, Illinois  
Senior Director of Materials and Transportation Engineering

Provided engineering consulting services in legal cases related to both materials and mechanical issues in products and personal injury cases. He also provided engineering consulting and failure analysis services to industrial clients.

1995-1998      Illinois Institute of Technology - Chicago, Illinois  
Research/Teaching Assistant

Mr. Jones was responsible for fatigue, mechanical, and heat treatment laboratory operations and maintenance. He also lectured and assisted with the instruction of laboratory courses in heat treatment, welding, physical metallurgy, mechanical testing, and fracture mechanics.

1994-1995      National Recovery Systems, Inc. - East Chicago, Indiana  
Research Assistant

Responsible for development and implementation of binder systems for the recovery of fine particulate steelmaking process waste oxides for use as a scrap alternative. Research included study and characterization of various chemical reactions involving Portland cements, lime, carbohydrates, sodium silicates, and other chemical systems.



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1991-1994 J. Merle Jones and Sons International Navistar - Joliet, Illinois  
Mechanic/Machinist

Responsibilities included rebuilding automotive and diesel engines, machining and refinishing of cylinder heads and blocks. Performed diagnostic and repair functions of semi-tractor service technician.

1989-1991 Joliet Machine and Engineering - Joliet, Illinois  
Machinist

Mr. Jones was responsible for manual and CNC machine operations, MIG and TIG welding, small project manufacturing, specialty machining and fabrication.

## ACADEMIC

Ph.D - **Candidate-** Illinois Institute of Technology, Chicago, IL. Materials Engineering

M.S. Illinois Institute of Technology, Chicago, IL - Metallurgical and Materials Engineering (1998)

B.S. Illinois Institute of Technology, Chicago, IL - Metallurgical Engineering (1995)

## CONTINUING EDUCATION

- Traffic Accident Reconstruction I, Northwestern University Traffic Institute (1998)
- Fractography, American Society for Materials, University of Tennessee (1999)
- Vehicle Dynamics, Engineering Dynamics Corporation (2002)
- Vehicle Fire Arson, and Explosion Investigation- NAFI- (2005)
- Professional Engineering Boot Camp, ISPE (2007)

## PROFESSIONAL REGISTRATION AND AFFILIATIONS

### LICENSE

Licensed Professional in the State of Illinois (License No. 62057146)  
Certified Vehicle Fire Investigator (NAFI No. 10876-5137V)  
Certified Fire and Explosion Investigator (NAFI No. 10876-5137V)



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## **AFFILIATIONS**

American Society of Materials (ASM)  
National Association of Corrosion Engineers (NACE)  
American Welding Society (AWS)  
Society of Automotive Engineers (SAE)  
American Society of Mechanical Engineers (ASME)  
Technology & Maintenance Council (TMC)  
National Society of Professional Engineers (NSPE)  
National Association of Fire Investigators (NAFI)

## **PUBLICATIONS and PRESENTATIONS**

### **PUBLICATIONS**

1. A.J. Jones, "Effect and Measurement of Interstitial Carbon and Nitrogen in Iron and Steel", Proceedings of the 39<sup>th</sup> Mechanical Working and Steel Processing Conference (1997).
2. A.J. Jones, "Design and Construction of Subresonant Mechanical Spectrometer", M.S. Thesis, Illinois Institute of Technology (1998).
3. "Crankshaft Failure and Why It May Happen Again", Practical Failure Analysis (2001).

### **PRESENTATIONS**

1. "Failure Analysis and Correction Actions for Gears", Society of Manufacturing Engineers Clinic on Heat Treating Hardening of Gears, (1999)
2. "Profit from Failure Analysis and Innovation", ASM Annual Meeting, Cincinnati, Ohio (1999)
3. "A New Approach to an Old Topic - Using Finite Element Analysis to Analyze Spot Weld Claims in Crashworthiness Cases", M. Fleming and A. Jones, ABA 2009 Emerging Issues in Vehicle Product Liability Litigation, Phoenix, AZ (April 2009)

### **RESEARCH PAPERS**

1. "Investigation of Induction Softening and Subsequent Rehardening for Prospective Mechanically Joined 6000 Series Aluminum Spaceframes", research conducted in conjunction with Alumax Extrusions Inc. (1994-1996)

### **ACADEMIC HONORS**

- Marie Finkl Scholarship (1991-1994)
- Finkl Graduate Fellowship (1996-1998)