

## **Stephen A. Ciatti**

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### **Professional Experience**

- **Present.** Staff engineer in the Center for Transportation Research at Argonne National Laboratory
- **1993-1995.** Locomotive maintenance supervisor at Burlington Northern Railroad

### **Education**

- PhD, University of Wisconsin-Madison, Engine Research Center, 2001
- MS, University of Wisconsin-Madison, Engine Research Center, 1997
- BS, University of Minnesota-Twin Cities, 1993

### **Research Interests**

- Fundamental fuel spray and combustion
- Hydrogen powered engines
- Developing diagnostic techniques for engines

### **Current Projects**

- Spectroscopic imaging of combustion in engines
- Performance evaluation for direct injection hydrogen powered engine
- Emissions improvement project for medium-duty truck manufacturer

### **Awards**

- Best Presented Paper Award; Kyoto, Japan (2004), "Comparison of X-Ray Based Fuel Spray Measurements with Computer Simulation Using the CAB Model"

### **Professional Memberships**

- Member, Society of Manufacturing Engineers
- Member, Society of Automotive Engineers
- Member, Institute for Liquid Atomization and Spray Systems

## Recent Publications

- Ciatti, S. A., Miers, S. A., and Ng, H. K.; ASME ICEF2005-1327 “Influence of EGR on Soot/NOx Production in a Light Duty Diesel Engine” 2005; Ottawa, ON Canada.
- Miers, S. A., Barna, G. L., Anderson, C. L., Blough, J. R., Inal, M. K., and Ciatti, S. A.; ASME ICEF2005-1219 “A Wireless Microwave Telemetry Data Transfer Technique for Reciprocating and Rotating Components” 2005; Ottawa, ON Canada.
- Ciatti, S. A., Hessler, J. P., Lee, K. O., Tentner, A. M, and Zhu, J.; SAE 2005-01-0128 “Investigation of Nano-particulate production from Low Temperature Combustion” 2005; Detroit, MI.
- Ciatti, S. A., Powell, C. F., and Tanner, F. X.; ASME/CIMAC 264 “Comparison of X-Ray Based Fuel Spray Measurements with Computer Simulation Using the CAB Model” – Best Presented Paper Award – 2004; Kyoto, Japan.