



CURRICULUM VITAE

# STAN ANDREWS, M.S.

DIRECTOR AND RECONSTRUCTION ENGINEER

[stan@enginist.org](mailto:stan@enginist.org)

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## AREAS OF EXPERTISE

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- Forensic Engineering
- Accident Reconstruction
- Occupant Restraint Systems
- Design and Development
- Safety Interlock Systems
- Door Latch Failures
- Agricultural Mechanical Systems
- Food Processing Systems

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## PROFESSIONAL EDUCATION

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M.S., Biological and Agricultural Engineering, University of Arkansas, Fayetteville, Arkansas, May 1993

B.S., Biological and Agricultural Engineering, University of Arkansas, Fayetteville, Arkansas, May 1990

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## PROFESSIONAL EXPERIENCE

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- 2000 - Present Director and Principle Reconstruction Engineer, Ei Consultants, LLC., (formerly known as The Engineering Institute, LLC.), Farmington, Arkansas.
- 1998 - 2000 Technology Group Manager, Tyson Foods, Inc., Springdale, Arkansas.
- 1993 - 1998 Equipment Section Manager, Tyson Foods, Inc., Springdale, Arkansas.
- 1990 – 1992 Research Assistant, Biological and Agricultural Engineering Dept., University of Arkansas, Fayetteville, Arkansas.

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## LICENSES & CERTIFICATES

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Arkansas Engineer Intern # 4402

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## PUBLICATIONS

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- Thorbole, Chandrashekhar K., D. A. Renfroe, S. B. Andrews, M. M. Partain, and D. S. Tanwar. "Possibility of a Hyperflexion Neck Injury in a Rear Impact Accident for a Rear Middle Seat Passenger." ASME International Mechanical Engineering Congress. Vancouver, British Columbia, November 12-18, 2010. IMECE 2010-37669.
- Andrews, Stanley B. , P. M. Partain, D. A. Renfroe, and M. Gilbert. "A Comparison of Computer Modeling to Actual Data and Video of a Staged Rollover Collision." ESV Conference. Stuttgart, Germany, June 2009. Paper No. 09-0346.
- Semones, Paul T., S. Andrews, M. Partain, C. Guthrie, and S. A. Batzer. "Angular Velocity Analysis of SUV Rollover Collisions Using PC-Crash." ARC-CSI Crash Conference. Las Vegas, Nevada, June 6, 2007.



Evans, Jeffrey E., S. A. Batzer, and S. B. Andrews. "Evaluation of Heavy Truck Rollover Crashworthiness." ASME International Mechanical Engineering Congress. Orlando, Florida, November 2005. ASME IMECE 2005.

Renfroe, David A., S. B. Andrews, M. Martin, and M. Partain. "Combining PC-Crash and MADYMO for Reconstruction and Occupant Motion During Rollover Crashes." EVU Conference Invited Presentation. Bratislava, Slovakia, October 22, 2005.

Evans, Jeffrey E., S. A. Batzer, and S. B. Andrews. "Evaluation of Heavy Truck Rollover Accidents." 19th International Safety Conference on the Enhanced Safety of Vehicles. Washington, D.C., June 6-9, 2005. Paper No. 05-0140-W.

Renfroe, David A., H. A. Roberts, M. Partain, S. B. Andrews, and J. F. Partain. "Effects of Suspension Tuning on Off-Road Vehicle Operating Speeds Over Wavy Terrain and Occupant Endurance." International Off-Highway Congress, CONEXPO-CON/AGG. Las Vegas, Nevada, March 19-23, 2003. Paper No. 2002-01-1444.

Renfroe, David A., H. A. Roberts, S. Andrews, and J. Partain. "Dynamic Characteristics of End Release Seatbelt Buckles." 17th International Technical Conference on the Enhanced Safety of Vehicles. June 2001. Paper No. 97-S.

Andrews, Stanley B., T. J. Siebenmorgen, and D. H. Loewer. "Combine Test System for Determining Harvest Loss in Rice." American Society of Agriculture Engineers. 1992. Paper No. 91-1604 and Applied Engineering in Agriculture Vol. 8 (6)a (1992): 759-763.

Andrews, Stanley B., T. J. Siebenmorgen, E. D. Vories, D. H. Loewer, and A. Mauromoustakos. "Effects of Combine Operating Parameters on Harvest Loss and Quality in Rice." American Society of Agriculture Engineers. 1993. Paper No. 921548.

Andrews, Stanley B., T. J. Siebenmorgen, E. D. Vories, D. H. Loewer, and A. Mauromoustakos. "Comparison of Combine Grain Loss Measurement Techniques." Applied Engineering in Agriculture (1992) and American Society of Agriculture Engineers. 1992. Paper 921549

Siebenmorgen, T. J., S. B. Andrews, and P. A. Counce. "Relationship of the Height Rice Is Cut to Harvesting Test Parameters." American Society of Agriculture Engineers. 1993.

Siebenmorgen, T. J., S. B. Andrews, E. D. Vories, D. H. Loewer, M. F. Kocher, and A. Mauromoustakos. "Effects of Combine Settings on Harvest Loss in rice." American Society of Agriculture Engineers. 1991. Paper No. 91-1605.

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## PRESENTATIONS

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Guthrie, Cord, and S. A. Andrews. "Accident Reconstructionist: Investigation of Vehicle Accidents." Presentation to Retired FBI. Fayetteville, Arkansas, January 13, 2011.

Semones, P. and S. Andrews and M. Partain and C. Guthrie and S. A. Batzer. Angular Velocity Analysis of SUV Rollover Collisions Using PC-Crash. ARC-CSI Crash Conference. Las Vegas, Nevada. June 6, 2007

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## PROFESSIONAL DEVELOPMENT

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2011	Advanced PC-Crash Training
2007	SAE Seminar: Vehicle Accident Reconstruction Methods
2005	SAE Seminar: Occupant and Vehicle Kinematics in Rollovers
2002	SAE TOPTEC: Passenger Vehicle Rollover
2001	Collision Odyssey
2000	PC-Crash Training



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## **PATENTS, COPYRIGHTS, STANDARDS, RESEARCH**

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U.S. Patent No. 5,533,343: Freezing System

U.S. Patent No. 5,472,377: Poultry Processing Method, Apparatus, and Product

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## **PROFESSIONAL ACTIVITIES & HONORS**

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2011 Commercial Driving Safety Seminar, Traylor Shavings, Prairie Grove Arkansas

2010 Distracted Driver Seminar, Local High Schools, Arkansas

2009 Instructor, Accident Reconstruction Seminar, Indianapolis, Indiana

2007 Engineering Young Alumni Award, College of Engineering, University of Arkansas

2003 University of Arkansas, College of Engineering, Mechanical Design in Biological Engineering, Lecturer Safety Engineering and Human Factors

2002 Arkansas Trial Lawyers Association 39<sup>th</sup> Annual Convention Guest Speaker  
Accident Reconstruction and Occupant Motion

2001- Present Academic Advisory Committee , University of Arkansas, Department of Biological Engineering

2000- Present Member, Society of Automotive Engineers

2000- Present Advisory Board Member, University of Arkansas, Department of Biological Engineering

2000- Present Charter Member, Arkansas Academy of Biological & Agricultural Engineering, University of Arkansas

1988 – 1990 Student Ambassador President, President from 1989-1990, University of Arkansas, College of Engineering

1986 – 1992 Member, University of Arkansas, American Society of Agricultural Engineers  
Student Branch President: 1989-1990

1990 Outstanding Senior Award, Biological & Agricultural Engineering, University of Arkansas

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## **COMMUNITY SERVICE**

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1999 – Present: Associate Pastor, Unity Covenant Church, West Fork, Arkansas