THE ENGINEERING INSTITUTE
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CURRICULUM VITAE

STAN ANDREWS, M.S.

DIRECTOR AND RECONSTRUCTION ENGINEER

info@enginst.org

AREAS OF EXPERTISE

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

PROFESSIONAL EDUCATION

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

PROFESSIONAL EXPERIENCE

2000 - Present	Reconstruction Engineer, The Engineering Institute, 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

LICENSES & CERTIFICATES

Registered Arkansas EIT# 4402

PUBLICATIONS

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.

NOT YET RETAINED

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." Internatioal 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 Techniqies." 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.

NOT YET RETAINED

PRESENTATIONS

Guthrie, Cord, and S. A. Andrews. "Accident Reconstructionist: Investigation of Vehicle Accidents." Luncheon for 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

PROFESSIONAL DEVELOPMENT

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

PATENTS, COPYRIGHTS, STANDARDS, RESEARCH

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

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

PROFESSIONAL ACTIVITIES & HONORS

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 39th 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

COMMUNITY SERVICE

1999 – Present: Associate Pastor, Unity Free Will Baptist Church, West Fork, Arkansas

NOT YET RETAINED