

**ACCIDENT RECONSTRUCTION**  
**A.R.E.**  
**& ENGINEERING, INC.**

**CURRICULUM VITAE**

**WAYNE M. SLAGLE**

**2011**

**EDUCATION**

B.S. in Mechanical Engineering (Machine Design, Kinematics, Welding, Materials and Material Removal Processes), University of Washington, 1976.

**REGISTRATION**

Professional Engineer in Mechanical Engineering, Oregon #1 1201 (1981)

Professional Engineer in Mechanical Engineering, Washington #27626 (1991)

Professional Engineer in Mechanical Engineering, Hawaii #8594M (1995)

**AFFILIATIONS**

ASM International (formerly American Society for Metals)

Society of Automotive Engineers (SAE)

Society of Accident Reconstructionists (SOAR)

Washington Association of Technical Accident Investigation (WATAI)

American Society of Mechanical Engineers (ASME)

American Welding Society (AWS)

Forensic Accident Reconstructionists of Oregon (FARO)

American Academy of Forensic Sciences (AAFS)

National Association of Professional Accident Reconstruction Specialists (NAPARS)

**SPECIAL STUDIES**

FARO Conferences, 2003, 2005, 2007, 2008, 2009

‘World Reconstruction Exposition, 2000,’ TAARS, College Station, TX, September 2000

Michelin Tire Failure Analysis, 1997

Fire Cause and Origin, course given by Mt. Hood Community College

‘Principles of Failure Analysis,’ ASM, 1992

‘Surface Modification of Metals,’ ASM, 1992

‘Accident Reconstruction Seminar,’ Society of Accident Reconstructionists, 1991, 1993, 1994, 1995

‘Accident Reconstruction,’ SAE Congress paper presentations, 1990

‘Strain Gage Technology,’ Measurements Group, 1985

‘Failure Analysis,’ University of Washington, 1982

‘Map Plotting and Radio Operator,’ Air National Guard, 1975-1977

‘Weather Analysis and Observations,’ USAF, 1971-1974

**PRESENTATIONS**

- “Non-Destructive Testing, Using Brittle Lacquer and Strain Gages,” presented to the Society of Automotive Engineers - Oregon Section, 1987
- “Repairing Old Aluminum Structures,” presented to American Welding Society, Portland, Oregon, Section, May 3, 1994
- “Methods of Dynamic Depiction of Vehicular Accidents,” presented to the Canadian Society of Forensic Science and Northwest Association of Forensic Scientists, Vancouver, BC, November 1994
- “Accidents Don’t Just Happen,” presented to the Oregon Paralegal Association, October 2003
- “Accident Reconstruction of Tractor/Trailer Rigs,” presented to Oregon Trucking Association, 2007
- “Finding Causes & Liability in Truck Crashes,” presented to Oregon Section of SAE, September 2007
- “The Black Box,” presented to Oregon Association of Licensed Investigator’s, Portland, Oregon, November 12, 2008
- “Preparing For The Accident You Know Is Coming” presented to Oregon Trucking Association, Welches, Oregon, April 15, 2009

**PUBLICATIONS**

- “Competitive Vehicle Analysis,” PACCAR Technical Center
- “Increased Stability of Twin Trailers,” SAE Technical Paper 902269
- “Reconstruction of a Pedestrian-Automobile Accident with Aid of Computerized Animation,” with John A. Talbott, P.E., and Ken J. Yu, American Academy of Forensic Sciences, 45th Annual Meeting, Boston, MA, February 18, 1993
- “Fatality Caused by Failure of A Slack Pulling Line During Skyline Logging,” with John A. Talbott, P.E., American Academy of Forensic Sciences, 45th Annual Meeting, Boston, MA, February 18, 1993
- “Concealed Corrosion Causes Steam Kettle Explosion,” with John A. Talbott, P.E., American Academy of Forensic Sciences, 46th Annual Meeting, San Antonio, TX, February 18, 1994
- “The Brakes That Wouldn’t,” with John A. Talbott, P.E., Keith M. Cronrath, P.E., and J.E. Davidson, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 16, 1995
- “What Caused the Truck’s Steering Loss?” with Keith M. Cronrath, P.E., and John A. Talbott, P.E., American Academy of Forensic Sciences, 50~ Anniversary Meeting, San Francisco, CA, February 12, 1998
- “A Preventable Truck Collision, But by Whom?” with Ken J. Yu and John A. Talbott, P.E., American Academy of Forensic Sciences, 50~ Anniversary Meeting, San Francisco, CA, February 12, 1998
- “The Black Box” with Reginald K.T. Yee, Automobile Law Committee Newsletter, American Bar Association, Spring 2008

**EXPERIENCE**

- 2001 – Present      Owner, Accident Reconstruction and Engineering, Inc.
- 1989 - 2000:      Vice President, Talbott Associates, Inc., consulting engineers. Experience includes vehicle accident reconstruction, motor vehicle defect examination, structural and products failure analysis, forensic engineering, design engineering.
- 1984 - 1989:      Chief Engineer, Silver Eagle Manufacturing Co. Responsibilities include accident reconstructions, structural frame design for converter dollies, Autocad drafting and design, development and testing of a lightweight trailer for off road use behind HMMWV military jeep, research and development of new products, castings and fabrications, design and set-up of new testing facility, testing and redesign of suspensions, expert witness in court, management of dynamic stability project for American Trucking Association Foundation with computer modeling through Iowa State University.
- 1982 - 1984:      Test Engineer, PACCAR Technical Center. Responsibilities included testing suspensions and cabs of trucks to failure, fatigue testing of springs, writing test standards, researching and developing test procedures and writing reports on test results
- 1979 - 1982:      Design Engineer, Wagner Mining Equipment. Responsibilities included management of research and development lab, design and testing of hydraulic and pneumatic control systems for mobile equipment, design and building of a radio control system for mobile equipment.
- 1977 - 1979:      Project Engineer, Lumber Systems Inc. Responsibilities included design and layout of lumber handling systems and special projects. Steel design of a building, foundations, structures and trusses.
- 1976 - 1977:      Associate Design Engineer, FMC Airline Equipment Division. Responsibilities included design of hydraulic drive system for mobile transporter, installing optional equipment onto loaders and mobile de-icer project.