



Biographical Outline



Summary

Senior Mechanical/Safety/Forensic Engineer with career experience in truck engineering design & testing; safety research, legislation, and regulations; truck accident/data analysis; and Government/industry liaison. Has provided technical counsel in the following truck design/performance areas: brakes; cab crashworthiness/rollover/injury analysis; cab ingress/egress; driver environment/ergonomics; driver direct and indirect visibility; fuel system integrity/post-crash fuel-fed fires (i.e. battery box-fuel tank location); vehicle lighting/conspicuity; rear and side underride protection; cargo retention; vehicle size-and-weight design configurations/regulations; analysis of nationwide U.S. work-zone accidents; truck back-over/run-over incidents; workers-comp negligence/gross-negligence immunity issues; OSHA 1910 Standards for General Industry and OSHA 1926 Standards for the Construction Industry.

Has provided testimony of findings to the U.S. Congress and governmental agencies; various trucking industry forums; International technical/policy forums; and vehicle/accident litigation matters.

Academic Background

- B.S., Mechanical Engineering, Indiana Institute of Technology, 1960
- Numerous safety seminars & accredited courses, 1966-2015

Professional Experience

- U.S. Associate, Woodrooffe & Associates; Ontario, Canada 1998-2003
- Vice President Engineering, Truck Wheels 'n Motion, Inc., 1998-2005
- Principal, Truck Research Services, Inc., 1996-present
 - Forensic Consulting and Expert Testimony
- Manager of Technical Legislation, Navistar International Transportation Corp., Ft. Wayne, Indiana, 1979-1996
- Staff Engineer/Safety Research and Regulation, Navistar International Transportation Corp., Ft. Wayne, Indiana, 1966-1979
- Design/Test and Development Engineer, Navistar International Transportation Corp., Ft. Wayne, Indiana, 1960-1966

Licenses/Certifications/Awards

- Emergency Medical Technician (formerly certified in the State of Ohio)
- Private Pilot's License
- Commercial Vehicle Driver's License (Class-A w/Ohio School Bus Endorsement)
- Distinguished Service Award (Chairman, Motor Truck Research Committee 1977-1986) from the Motor Vehicle Manufacturers Association of the United States, Inc.
- SAE Member Service Award in 2006 for forty years of active membership.
- Parkway Local Schools "Academic Alumni Hall of Fame" May 15, 2013
- SAE Truck Crashworthiness Cooperative Research Award

Organizations and Committees

- Forensic Expert Witness Association (March 2013-present)
- American Bar Association (associate member 2003-present)
 - Tort Trial and Insurance Practice (TIPS)
 - Commercial Transportation Litigation Committee (CTLC)
- NHTSA Motor Vehicle Safety Research Advisory Committee
 - Charter Member 1987-1998
 - Charter Member MVSRA's Heavy Truck Subcommittee
 - Charter Member & Chairman HTS Tire Research Task Force
- FHWA Highway/Commercial Vehicle Interaction Study Panel, North America and European Scanning Tour, 1994-1996
(*Highway Commercial Vehicle Interaction Final Report*, December 1996)
- Society of Automotive Engineers (SAE), Member, 1966-present
 - Truck and Bus Council Committee, 1994-1997
 - Cab Occupant and Environment Committee, Charter Member, 1978-present
 - Truck Crashworthiness Subcommittee, Charter Member, 1980-present
 - Truck Crashworthiness Task Force, 1993-1998
 - Fuel Systems Task Force, Charter Member, 1990-present
 - Truck Tire Characterization Subcommittee, Charter Member and Chairman, 1991- 1998
 - Tire Research Task Force, Ex-Officio Member, 1991 - 1998
 - Intelligent Transportation Systems/Commercial Vehicle Operations, Charter Member, and Chairman, 1992-1996
 - Automotive Safety Committee, 1968-1972
 - Vehicle Research Institute/Safety Research Advisory Committee, Member, 1971-1974
 - 1972 SAE Williamsburg Conference on Highway Safety Research: Session Chairman – Truck, Bus and Multi-Purpose Vehicle Safety
- Motor Vehicle Manufacturers Association (MVMA), Member, 1966-1992
 - Motor Truck Manufacturers Policy Committee
 - Motor Truck Research Committee, 1972-1992, Chairman 1977-1986

Organizations and Committees (continued)

- Engineering Policy Committee
- Vehicle Engineering & Safety Standards Committee
- Vehicle Safety Development Committee-Trucks
- Engineering Research Subcommittee
- Accident Data Collection and Coordination Subcommittee
- Transportation Committee
- International Standards Liaison Committee
- Truck Manufacturers Association (TMA)
 - Steering/Organizational Task Force, 1993-1995
 - TMA Operating Committee, 1995-1996
- Transportation Research Board, National Academy of Science
 - Motor Vehicle Size and Weight Committee, 1992-1998
 - Research Subcommittee, Charter Member/Chairman, 1994-1998
 - ITS-IDEA Technical Review Panel, 1997-2001
 - Project Technical Advisor to Penn State University TRB Project ITS-51 title *Mitigating Litigation Barriers for Deployment of AHS and ETTM Innovations*, 1997-98
 - Intelligent Transportation Society of America, CVO Technical Committee, 1993-1996
- ITS Ohio Executive Committee, 1994-1996
- U.S. DOT Truck Safety Summit, Kansas City, MO, March 1995
- International Symposium on Motor Carrier Transportation, Williamsburg, VA, June 1993; 1) TRB Steering Committee, and 2) Workshop Chairman “Advanced Concept Vehicles...Designs for More Efficient Trucks”
- 1994 First Intelligent Transportation Systems World Congress, Steering Committee Member and co-author of CVO technical paper, Paris, France
- FHWA Mobility 2000 CVO Committee - Forerunner to formation of ITS-America
- Association for the Advancement of Automotive Medicine (former member)
- American Trucking Associations, 1997-2000
 - ATA Blue Ribbon Brake Panel (NTSB Field Study Program) 1992-1994

Select Publications

- *Four Decades of Truck Safety Progress* American Bar Assoc. 2006 Winter Quarterly
- *Legislative Impact on the Design and Operational Safety of Large Trucks in the United States*, International Truck & Bus Safety Research & Policy Symposium April 3-5, 2002 Knoxville, Tennessee
- *Truck Crashworthiness in the United States...A Historical Perspective*, SAE TOPTEC Heavy Vehicle Rollover - Vancouver, Canada July 12-13, 2000

Select Publications (continued)

- *Truck Manufacturers Pioneering Development of Accident Data Programs*, SAE Truck & Bus Meeting October 1996
- *The Decade of Declining Heavy Truck Fatalities...A Tribute to the Cooperative Process*, SAE Technical Paper Series No. 933058, November 1993
- *U.S. Experience with Intelligent Transportation Systems Commercial Vehicle Operations; The Road to Development, Proceedings of the First World Congress on Applications of Transport Telematics and Intelligent Vehicle-Highway Systems*, Paris, France, November/December 1994
- *Truck Research Priorities for the '90's*, Proceedings of the Transportation Research Forum, St. Louis, Missouri, October 1992
- *Driver Fatigue Considerations in Truck & Bus Design*, Proceedings of the Federal Highway Administration Symposium on Truck and Bus Driver Fatigue, Washington, DC, November 1988
- *Heavy Truck Safety...The Need to Know*, American Association for Automotive Medicine, October 1980, and ENO Foundation for Transportation [Traffic Quarterly](#), January 1981

Patents (one U.S. Patent)

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