



Biographical Outline

Farrel L. Krall

Summary

Senior Mechanical/Safety Engineer with experience in truck engineering design & testing, safety research and regulations, truck accident analysis, and government-industry liaison. Has provided technical counsel in the following truck design & performance areas: brakes, cab crashworthiness/rollover, cab ingress/egress, driver environment/ergonomics, driver direct and indirect vision, fuel system integrity, lighting/conspicuity, rear/side underride, cargo retention, truck size/weight regulations, and analysis of U.S. work-zone accident experience.

Has provided testimony as to findings to the U.S. Congress, governmental agencies, International technical/policy forums, and various trucking industry forums.

Academic Background

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

Professional Experience

- U.S. Associate, Woodrooffe & Associates; Ontario, Canada 1998-2003
- Vice President Engineering, Truck Wheels 'n Motion, Inc., 1998-2003
- Principal, Truck Research Services, Inc., 1996-present
- 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 and Certifications

- Emergency Medical Technician (formerly certified in the State of Ohio)
- Private Pilots License
- Commercial Vehicle Drivers License (Class-A w/Ohio School Bus Endorsement)

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Organizations and Committees

Alabama Trucking Association

Ohio Trucking Association

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, 1992-present 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

- 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

Organizations and Committees (con't)

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 titled *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

Selected 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, USA

Truck Crashworthiness in the United States...A Historical Perspective, SAE TOPTEC Heavy Vehicle Rollover - Vancouver, Canada July 12-13, 2000

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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