



## 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)

Tel. & Fax; 419 495-4242

E-mail; [FarrelKrall@kralltrucksafety.com](mailto:FarrelKrall@kralltrucksafety.com)

P.O. Box 274, 408 Sprague Street

Willshire, Ohio 45898-0274

**Website: [www.kralltrucksafety.com](http://www.kralltrucksafety.com)**

**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

flk January 2012