

CURRICULUM VITAE

DAVID K. KARLIN

EDUCATION

M.S., Mechanical Engineering, **Massachusetts Institute of Technology**, 1986

B.S., Mechanical Engineering, **Massachusetts Institute of Technology**, 1984

Engineering Studies, **Oregon State University**, 1980 - 1982

PUBLICATIONS/ARTICLES/SEMINAR HANDOUTS

Seminar materials: Crash Investigator's Update "99" "Offset Frontal Impacts," and "Air Bag Deployment," Forensic Accident Reconstructionists of Oregon (FARO), April 1999.

"When Two Cars Collide: Low Speed Rearend Collisions," article in The Oregon Trial Lawyer, Winter, 1998, co-author Thomas R. Fries, P.E.

ACCREDITATIONS

The Accreditation Commission for Traffic Accident Reconstruction (ACTAR) has awarded the level of: **Traffic Accident Reconstructionist**, registration number 992, expires June, 2015.

Certified English XL Tribometrist (CXLT), January 31, 2008, Certificate No. 215.

LICENSES (CURRENT)

Registered Professional Engineer of Oregon - Mechanical No. 14975PE (1990)

Registered Professional Engineer of Hawaii - Mechanical No. PE-9509 (1998)

Registered Professional Engineer of Washington – Mechanical No. 35899 (1999)

Registered Professional Engineer of California – Mechanical No. M32981 (2004)

AFFILIATIONS

Society of Automotive Engineers (SAE)
American Society of Mechanical Engineers (ASME)
Forensic Accident Reconstructionists of Oregon (FARO)
The Accident Reconstruction Communications Network
International Association of Arson Investigators (IAAI)
National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS)

SPECIAL STUDIES

- “Basic Concepts and Modern Measurement Tools for Crash Investigation and Reconstruction”, FARO 2011 Spring Conference, Eugene Police Department – MCI Team May 25 & 26, 2011.
- “Tribometrist Certification Program” 10-hour course (March 22, 2011), instructed by George Widas, P.E. and Peter Wida, BSME, Denver, CO.
- “19th Annual Expert Witness Conference,” June 23-25, 2010. Chicago, IL, sponsored by SEAK, Inc.
- “Advanced Motorcycle Crash Reconstruction” 40-hour course (May 12-16, 2008) by Wade Bartlett, PE, sponsored by Mechanical Forensics Engineering Services, LLC, & Washington Association of Technical Accident Investigators (WATAI).
- “Accident Reconstruction at Traffic Signal Intersections” by Darren Marceau, PE, & “Forensic Analysis of Seat Belts & Occupant Kinematics” by Donald Felicella, May 8-9, 2008, Hillsboro, OR. Seminar sponsored by Forensic Accident Reconstructionists of Oregon, Inc.
- “Using the English XL Expertly,” by William English, PE, Tampa, Florida, January 28, 2008.
- ASTM International Technical Committees, F13.10 (Traction), F13.30 (Standard), F13.50 (Walking Surfaces); January 29, 2008, Tampa, Florida.
- “Investigation of High Speed Collisions Into Poles and Trees” by Joseph N. Cafone, “Consideration of Motorcyclist’s Center of Mass Apogee as a Factor in Computing Launch Speed” by Donald Webb, (August 3-4, 2007, Red Lion Portland Airport) Seminar sponsored by Forensic Accident Reconstructionists of Oregon, Inc.
- “Validation of Pedestrian-Bicyclist v. Vehicle Crash Scene Formulas,” (August 1-2, 2006) Seminar sponsored by Forensic Accident Reconstructionists of Oregon and Eugene City Police Department, 2006.

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- “Oregon, Washington and Federal Family Leave, Disability and Workers’ Compensation Laws.” (June 28, 2006) Seminar sponsored by Buckley, LeChevallier, P.C., 2006.
- “Drag Factor & Coefficient of Friction Validation Testing” (August 26, 2005). Seminar sponsored by Forensic Accident Reconstructionists of Oregon, Inc.
- “DeChant Consulting Services (DCS) and The CAD Zone present a demonstration of Photogrammetry and Crash Scene Diagramming.” (April 16, 2004). Sponsored by Forensic Accident Reconstructionists of Oregon, Inc.
- “Biomechanics in Vehicle Collisions Conference” (April 8-9, 2005). Sponsored by Forensic Accident Reconstructionists of Oregon, Inc. & Lane County Sheriff’s Department.
- “Annual Advanced Fire and Arson Seminar” (September 22 – 25, 2003). Included fireplace, electrical, gas, and mobile equipment fire analysis. Seminar sponsored by The International Association of Arson Investigators.
- “Tire Failures 101 and High Speed Tire Blow-out Demonstrations”, by Mr. Mick Zambelis (August 8, 2003); “Critical Speed Yaw Identification and Validation of Calculations” (August 9, 2003). Seminar sponsored by Forensic Accident Reconstructionists of Oregon.
- “Occupant Kinematics” and “Hidden Traps of Court Presentations” (December 14, 2002). Seminars sponsored by Forensic Accident Reconstructionists of Oregon.
- “Aircraft Accident Investigation & Management” (June 13, 2002). 32 hour course presented by Embry-Riddle Aeronautical University.
- “Crash Injury Research” and “Automotive Data Recorders” (May 8, 2002). Seminars sponsored by Washington Association of Technical Accident Investigators.
- “Energy Analysis – Basic Concept and Application” (March 23, 2001). Seminar sponsored by Forensic Accident Reconstructionists of Oregon.
- “Expert Witness Update,” (July 7, 2000). Seminar sponsored by Forensic Accident Reconstructionists of Oregon.
- “VC2000 Familiarization”, (January 27-28, 2000). Workshop on braking test computer presented by Vericom Computers, Inc; including low- and high-speed skid tests, theory and practical.
- Fire Investigation (Fall, 1999) – 30 hour Fire Protection Technology Course presented by Portland Community College.
- “Practical Application of Crush”, (July 14-17, 1999). Seminar sponsored by Forensic Accident Reconstructionists of Oregon; including high-speed crash tests.

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- "Crash Investigations Update '99", (April 1, 1999). Seminar sponsored by Forensic Accident Reconstructionists of Oregon, vehicle event data, and low speed impact forces.
- 4th Annual FARO Crash Reconstruction (July, 1998); low speed crashes (test subject), motorcycle crash tests.
- "Biomechanics and Injury Causation," by Dr. Rick Robertson, (January, 1998). Seminar sponsored by Forensic Accident Reconstructionists of Oregon.
- Hyster Certified Lift Truck Operator, 1995
- SAE Failure Effects and Modes Analysis Seminar, 1994
- Freightliner Vehicle Service Course, 1988
- SEM Signal Processing Seminar, 1988
- SAE Fatigue Seminar, Detroit, MI, 1987

PRESENTATIONS

"Technical Courtroom Presentations," Association for Defense Trial Attorneys (National Convention, Maui, Hawaii, April 7, 2011).

"Accident Reconstruction for Paralegals," University of Hawaii Law School, guest lecturer; November 9, 2009.

"Accident Reconstruction for Paralegals," University of Hawaii Law School, guest lecturer; March 2, 2009.

"Accident Reconstruction for Paralegals," University of Hawaii Law School, guest lecturer; May 29, 2008.

"Forensic Mechanical Engineering and Accident Reconstruction," American Society of Mechanical Engineers (ASME); 2003 Winter Seminar, January 18, 2003.

"Offset Frontal Impacts: Equations for Solving," Forensic Accident Reconstructionists of Oregon (FARO), 1999 Spring Seminar, April 1, 1999, co-presenter, Thomas R. Fries, P.E.

"Airbags: Proper and Improper Deployment," Forensic Accident Reconstructionists of Oregon (FARO), 1999 Spring Seminar, April 1, 1999, co-presenter, Thomas R. Fries, P.E.

EXPERIENCE

- 2003 - Present: Vice President, Senior Engineer, Talbott Associates, Inc. - Expert witness and consulting mechanical forensic engineer with five other registered professional engineers. Expertise provided in automobile accident reconstruction, fire cause and origin, product defects, roadway standards, traffic control, and slip/trip and fall.
- 1997 - 2003: Consulting Mechanical Engineer, Forensic Mechanical Engineering, Inc. Expert witness and consulting, experience includes automobile, commercial vehicle, pedestrian and bicycle accident reconstruction, vehicle defect examinations (cars and trucks), slip and fall coefficient of friction studies, product defects, and fire investigations and analysis.
- 1994 - 1997: Instructor, Oregon Institute of Technology - College of Manufacturing Engineering, Hydraulics and Control Systems Class.
- 1996 - 1997: Professional Consulting Engineer - Specializing in component durability testing (automotive/truck); design for durability (including fatigue analysis); data collection/validation for durability testing, damage analysis.
- 1993 - 1996: Senior Development Engineer, Freightliner Corporation - Continued supervision of the cab simulator. Heightened emphasis on training other Test personnel, as well as increased participation of design review (Advanced Products) and vendor liaison.
- 1989 - 1992: Development Engineer, Freightliner Corporation - Supervised 1 engineer and 2 technicians. Responsible for project management, presentations to senior management, product development, and vendor liaison. Engineering responsibility for vehicle damage analysis.
- 1986 - 1989: Test Engineer I & II, Freightliner Corporation - Supervisory responsibility for 2 technicians; engineering responsibility for the cab simulator as well as computer services for the entire Test Center. Organized and led 2 proving ground trips. Specialist in data acquisition and damage analysis techniques.

May 2011