

# Accident Reconstruction Engineering

Voice: 707-554-6000

www.AccidentReconstructionEngineering.com

Fax: 707-554-6016

1 1 0 9    S a c r a m e n t o    S t r e e t    -    V a l l e j o ,    C A    9 4 5 9 0

## Dean H. Ahlberg, P.E., CTK, CXL

### Consulting Engineer and Expert Witness

#### Slip, Trip and Fall Accidents

Reconstruct slip, trip and fall accidents on stairs, ramps, floors, sidewalks, roads, parking lots, ladders and playgrounds. Measure the slip resistance (coefficient of friction) of walking surfaces and stair treads. Determine the applicability of building codes and other standards of care.

#### Vehicle, Bicycle and Pedestrian Accidents

Reconstruct vehicle, bicycle and pedestrian accidents. Prepare computer simulations of vehicle accidents and vehicle handling. Crash data retrieval from onboard crash data recorders.

#### Accidents involving the Lighting Condition

Reconstruct the accident lighting condition. Measure the amount of light (illuminance) on stairways, walkways, parking lots, roadways, and other surfaces. Determine the applicability of IESNA guidelines and other standards of care.

#### Accidents involving Defective Systems and Products

Inspect, test and analyze systems and products for defects and failure causation.

#### Expert Witness Testimony

Testify at depositions, arbitrations and trials.

### Professional Registrations and Certifications

Registered Professional Mechanical Engineer, California #M22684.

Certificate of Technical Knowledge (CTK), Illuminating Engineering Society of North America.

Certified XL Tribometrist (CXL): Certificate No. A0121-0705.

Certified Crash Data Retrieval (CDR) System Operator

### Professional Degrees

B.M.E.            University of Minnesota        1978.

M.S.M.E.        Oklahoma State University    1980.

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## Professional publications

The American Society of Mechanical Engineers.  
Society of Automotive Engineers.  
Journal of the American Society of Lubrication Engineers.  
Proceedings of the Sixth International Fluid Power Symposium, Cambridge, England.

## Professional Memberships

The Society of Forensic Engineers and Scientists (SFES).  
American Society of Mechanical Engineers (ASME).  
American Society for Testing and Materials (ASTM).  
A voting member of Committee F-13: *Pedestrian/Walkway Safety and Footwear*.  
Illuminating Engineering Society of North America (IESNA).  
International Conference of Building Officials (ICBO).  
Society of Automotive Engineers (SAE).

## Professional Continuing Education

Lighting Software: Enter the Matrix: Pacific Energy Center (11/2003).  
Biomechanics of Slips and Falls: Sponsored by ASTM Committee F-13 on Pedestrian/Walkway Safety and Footwear: (6/2003).  
ARC-CSI Crash Conference (6/2003).  
UC Berkeley Extension: Biomechanics of Human Injury (3/2003).  
Collision Safety Institute: Crash Data Retrieval System Operator Certification Class (12/2002).  
International Conference of Building Officials: 2001 California Building Code Nonstructural Update (6/2002).  
UC Riverside: Crash Data Retrieval Systems (5/2002).  
MacInnis Engineering PC-Crash and PC-Crash Advanced Training Workshops (8/2001).  
International Safety Academy™: English XL Variable Incidence Tribometer Certification Program™ (1/2001).  
Pacific Gas and Electric Company Spring 2000 Programs: Title 24: Changes to Lighting Standards (2/2000).  
International Conference of Building Officials: Fundamentals of Exiting and Complex Exiting (11/1998).  
ASME Professional Development Training: Creating a Reasonably Safe Product (6/1998).  
MacInnis Engineering High Speed / Low Speed Impact Seminar (8/1997).  
IESNA Lighting Education: ED-3 Roadway Lighting (4/1997).  
Lee S. Cole & Associates: Investigation of Vehicle Fires (5/1996).  
IESNA Lighting Education: ED-100 Fundamental Level and ED-150 Intermediate Level (3-4/1996).  
ASTM Professional Development Training: The Interaction of Man, Footwear, and Walking Surfaces (10/1995).  
ASME Professional Development Training: Introduction to Elevators and Escalators (6/1994).  
Engineering Dynamics Corporation: Vehicle Accident Reconstruction using EDCRASH (11/1990).

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## Professional Employment

- Since January 1995    Accident Reconstruction Engineering  
Consulting and Expert Witness Services.
- November 1990 -    CMF Consultants  
December 1994    Consulting and Expert Witness Services.
- June 1990 -    Forensic Technologies International  
October 1990    Consulting and Expert Witness Services.
- June 1985 -    Sachse Engineering Associates  
April 1990    Engineering design, analysis and testing of nuclear submarine systems.
- August 1984 -    TA Engineering  
June 1985    Engineering analysis of natural gas compressor station emergency shutdown systems.
- August 1982    Mare Island Naval Shipyard  
July 1984    Engineering design, analysis and testing of nuclear submarine systems.
- January 1979 -    Oklahoma State University  
July 1982    Engineering design, analysis and testing of hydraulic systems and components.
- June 1976 -    Eaton Corporation  
September 1978    Engineering design, analysis and testing of hydraulic system components.