

APPLIED BIOMECHANICS

Curriculum Vitae

Eric S. Deyerl, P.E.

Specialized Professional Competence

Mechanical Engineering
Failure Analysis of Mechanical Systems
Accident Reconstruction

Vehicle Dynamics
Structural Analysis
Mechanical Testing

Education

Master of Science, Mechanical Engineering,
University of California Los Angeles (1992)
Bachelor of Science, Aerospace Engineering,
University of California Los Angeles (1990)

Professional Experience

Mechanical Engineer
Dial Engineering (2008 to present)
Mechanical Engineer
Applied BioMechanics (1999 to present)
Mechanical Engineer
Quan, Smith & Associates (1997 to 2007)
Engineer / Senior Engineer / Managing Engineer
Failure Analysis Associates (1991 to 1997)
Teaching Assistant
University of California Los Angeles (1990 to 1991)

Registration

Registered Professional Mechanical Engineer
State of California, #M29157
Traffic Accident Reconstructionist
A.C.T.A.R., #1443

Professional Affiliations

Member, American Society of Mechanical Engineers
Member, Society of Automotive Engineers
Member, National Association of Professional Accident Reconstruction Specialists

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Member, Southwestern Association of Technical Accident Investigators

Member, American Society for Testing and Materials

Member, American Society of Safety Engineers

Continuing Education

“Crash Data Retrieval User’s Conference” (2008, 2007, 2006)

“HVE Forum”, Engineering Dynamics Corp. (2006)

“Crash Data Retrieval User’s Conference” (2006)

“Crash Data Retrieval System Operator’s Certification Course Update 2005”, Collision Safety Institute (2005)

“HVE Forum”, Engineering Dynamics Corp. (2004)

“Crash Data Retrieval System Operator’s Certification Course”, Collision Safety Institute (2008, 2003)

“Theoretical and Applied Vehicle Dynamics”, Engineering Dynamics Corp. (2001)

Society of Automotive Engineers Professional Development Program Seminars:

“Braking Performance of Heavy Commercial Vehicles” (2000)

“Accident Reconstruction: State-of-the-Art” (1999)

“Passenger Car Rollover: Cause & Prevention” (1999)

“Heavy Vehicle Underride Protection” (1997)

“Low Speed Rear Impact Collisions” (1994)

“Side Impact Protection: Meeting the Challenge” (1994)

“Vehicle Rollovers: An Update of Current Issues” (1993)

“Accident Simulations”, Engineering Dynamics Corp. (1993)

“Traffic and Transportation Seminar”, Engineers Review Inc. (1993)

Sponsor and Instructor, San Bernardino County Sheriff’s Department Seminar on Skid Recognition and Crash Evaluation (1993)

“Accident Reconstruction”, Engineering Dynamics Corp. (1991)

Publications

“Computer Simulation of Staged Motorcycle-Vehicle Collisions Using EDSMAC4”,
Accident Reconstruction Journal, July/August 2007 (with L. Cheng)

“Presentation of HVE Validation Studies”, HVE White Paper #2006-1, HVE Forum 2006
(with F. Bayan, A. Cornetto, and J. Anderson)

“Low Speed Collinear Impact Severity: A Comparison between Full Scale Testing and Analytical Prediction Tools with Restitution Analysis”, Society of Automotive Engineers Paper 2002-01-0540, March 2002 (with A. Cipriani, F. Bayan, M. Woodhouse, A. Cornetto, A. Dalton, C. Tanner, and T. Timbario)

“Creation of Three-Dimensional Terrain for Use in Computer Animation”, Society of Automotive Engineers Paper 980020, International Congress and Exposition, February 1998 (with M. McCall)

“Failure Analysis of Heavy Truck Trailer Axle Tubes”, Proceedings of the International Conference on Experimental Model Research and Testing of Thin-Walled Structures, July 1997 (with R. Kadlec, R. Westmann, R. Carnahan, and M. Haghi)

- “Occupant Dynamics in Low Speed Collisions: Crash Testing and Mathematical Modeling”, Low Speed Collision TOPTEC, SAE, Richmond (Vancouver), B.C., Canada, August 1996 (with L. Cheng, R. Kelkar, S.M. Werner, and F.P. Bayan)
- “Validity of Flight Recorder Data in the Reconstruction of a Boeing 747 Accident During Taxi on Snow and Ice-Affected Pavement”, Proceedings, International Society of Air Safety Investigators, October 1994 (with F. Bayan and B. Ross)
- “Brake Temperature and Automobile Low Speed Stopping Performance”, *Accident Reconstruction Journal*, July/August 1994 (with F. Bayan and B. Shiu)
- “Tire Mark Analysis in a Case of Unintended Acceleration”, *Accident Reconstruction Journal*, March/April 1994 (with F. Bayan)