



ROLAND A. RUHL, B.S., E.I.T.

BACHELOR OF SCIENCE IN GENERAL ENGINEERING
ACTAR ACCREDITED TRAFFIC ACCIDENT RECONSTRUCTIONIST

CURRENT EMPLOYMENT

Ruhl Forensic, Inc., since 1991

ACTAR accredited accident reconstructionist. Staff engineer performing forensic investigation of machine, job site/workplace, and vehicular accidents, as well as job site/workplace safety. Experienced with accident reconstruction/simulation and computer aided drafting (CAD) software.

PREVIOUS EMPLOYMENT

Illinois Department of Transportation, Champaign, IL, Fall 1991

Temporary employment for inspection and supervision of highway construction in District #5.

Ultrasonic Power Corporation, Freeport, IL, Summer 1989

Responsible for validating engineering drawings for a recently acquired product.

Halsey-Taylor Thermos, Freeport, IL, Summer 1988

Time-motion studies and various industrial engineering projects.

EDUCATION

Continuing Education Course work: University of Illinois, Champaign-Urbana, IL
Spring 2002: Vehicle Dynamics, ME 336

B.S., 1991: University of Illinois, Champaign-Urbana, IL.
Major Field: General Engineering

Curriculum: General Engineering crosses disciplinary lines, integrating a comprehensive program of basic sciences, engineering sciences, and project design, with a focus on solving real world engineering problems.

Senior Project: "Fluidized Bed Combustion Ash-Asphalt Sealer"
Archer Daniels Midland Co., Decatur, IL

PROFESSIONAL CREDENTIALS

Accreditation Commission for Traffic Accident Reconstruction (ACTAR) Registration #579 for full accreditation as a Traffic Accident Reconstructionist

Certified Crash Data Retrieval (CDR) System Operator

Member of Accident Reconstruction SAE Transaction Selection Committee #22AR

Professional Engineer Intern, State of Illinois License # 061-023953
(E.I.T. - Engineer in Training)

Associate Safety Professional (A.S.P.), License # A6470, Board of Certified Safety Professionals, Champaign IL (former)

PROFESSIONAL ASSOCIATIONS

American Society of Safety Engineers, Associate Member (ASSE)
Illinois Association of Technical Accident Investigators (IATAI)
National Association of Professional Accident Reconstruction Specialists (NAPARS)
National Association of Traffic Accident Reconstructionists and Investigators (NATARI)
Southwestern Association of Technical Accident Investigators (SATAI)
National Safety Council (firm membership)
Society of Automotive Engineers, Associate Member (SAE)

SPECIAL TRAINING

Graduate, Crash Investigation I, Northwestern University Center for Public Safety, May, 2011

Collision Crash Sequence #29 Safety in Mass Production Vehicles; Pedestrian Safety and the 2009 MUTCD; and EDR Data from Non-CDR Supported Vehicles presented by SATAI, Glendale, AZ, July 16 and 17, 2010

Design and Operation of Work Zone Traffic Control seminar, presented by a National Highway Institute certified instructor, Champaign, IL, December 5, 2008

2006 HVE Forum, Phoenix, AZ, February 20-24, 2006

PhotoModeler Pro 5 Collision Investigation training course, November 8-10, 2004

Crash Data Retrieval (CDR) System Operator's Certification Course, Phoenix, AZ, July 2004

PC-CRASH and PC-RECT Training Workshop, Las Vegas, NV, March 10-11, 2003

Commercial Vehicle Crash Testing (truck into trailer side, truck into truck rear, car underrides truck rear, car into trailer side, car underrides truck side for 2 speeds), European Conference for Accident Reconstruction, sponsored by DEKRA, EVU, Winterthur, DSD, IbB Expertisen, DWG, USI, SJTB, Unfallanalyse Berlin, at the DEKRA facilities in Neumunster, Germany, May 31-June 1, 2002

Using a pulsed laser total station and data recorder to perform forensic mapping of an accident scene, TOPCON, Champaign, IL, September, 2001

EDC Theoretical and Applied Vehicle Dynamics Workshop, Phoenix, AZ, January 31, 2001

CVSA (Commercial Vehicle Safety Alliance) Inspection Familiarization course, December 7, 2000

CARAT 4 Training, IbB Expertisen, Bernkastel-Kues, Germany, October 2000

Graduate, 3 Day High Performance Driving School, Bob Bondurant School of High Performance Driving, Phoenix, AZ. June 6-8. 1996

Safety Training Methods, National Safety Council's Safety Training Institute, March 21-25, 1994, Itasca, IL

Principles of Occupational Safety and Health, National Safety Council's Safety Training Institute and Safety Council of Greater St. Louis, St. Louis, MO, November 8-12, 1993

Certified Safety Professional Review Course, Illinois State University, Bloomington, IL, Spring 1993

Lift Truck Operator Training, OSHA Powered Truck Training Standards, Parkland College, Champaign, IL, September 9, 1993

Inspection of Articulated Vehicles Certificate of Completion, TrukSafe America Risk Management, Inc., March 12, 1993

Graduate, SOS Big Rig Driving School, Phoenix, AZ, March, 1993

Graduate, Traffic Accident Reconstruction II, Northwestern University, Evanston, IL, January, 1992

Graduate, Traffic Accident Reconstruction I, Northwestern University, Evanston, IL, January, 1992

PUBLICATIONS AND CONFERENCE PRESENTATIONS

Genson, Laura Ruhl, Ruhl, Roland A. and Ruhl, Roland L., *The Misuse of Technology: An Expert Opinion*, published in the Trial Journal of the Illinois Trial Lawyers Association (Winter 2007 edition, Volume 9, Number 1)

Ruhl, Roland A., Fittanto, Daniel A., Ruhl, Roland L., Inendino, Louis V., Southcombe, Ericka J., "Comparison of Established Heavy Brake Heating/Cooling Models with HVE Brake Designer in a Real Mountain Accident", SAE Paper 2006-01-3556, presented at the SAE Commercial Vehicle Engineering Congress and Exhibition, Rosemont, IL, November 2, 2006

Ruhl, Roland L., Inendino, Louis V., Southcombe, Ericka J., Ruhl, Roland A., Fittanto, Daniel A., "Usable Models for Free and Forced Cooling of Commercial Vehicle Drum Brakes", SAE 2006-01-3557, November, 2006

Roland A. Ruhl, "Human Factors: Driver Response" and Roland A. Ruhl and John W. Moore, "Visibility and Conspicuity", published in *Truck Accident Litigation, Second Edition*, American Bar Association, 2006

Roland L. Ruhl, Roland A. Ruhl, and Daniel A. Fittanto, "A Comparison of EDSMAC and

EDSMAC4 Collision Models”, European Conference for Accident Reconstruction, Wildhaus, Switzerland, June 24-25, 2005

Daniel A. Fittanto, Roland L. Ruhl and Roland A. Ruhl, “ An Overview of the DyMesh Method for Three Dimensional Vehicle Collision Analysis”, European Conference for Accident Reconstruction, Wildhaus, Switzerland, June 24-25, 2005

Roland A. Ruhl, Adam Senalik, and Ericka Southcombe, “Modeling of Commercial Vehicle Rollover in the USA Using the Static Roll Model”, European Conference for Accident Reconstruction, Neumuenster, Germany, May 31 – June 1, 2002

Daniel A. Fittanto, Roland A. Ruhl, Ericka J. Southcombe, Dr. Heinz Burg and Juergen Burg, “Overview of CARAT-4, A Multi-body Simulation and Collision Modeling Program”, SAE Paper 2002-01-1566, presented at the 2002 Automobile Dynamics and Stability Conference in Detroit, MI, May 7-9, 2002

Roland A. Ruhl, Jonathan A. Balasa, Daniel A. Fittanto, Heinz Burg, and Jurgen Burg, “Validation of CARAT: A Kinetics Based Accident Reconstruction and Vehicle Dynamics Program,” SAE World Congress 2001, Detroit, MI, March 6, 2001

Editorial duties on *Truck and Trucking Handbook: A Primer*, published by Ruhl and Associates, May, 2000

Roland L. Ruhl and Roland A. Ruhl, “Prediction of Steady State Roll Threshold for Loaded Flat Bed Trailers - Theory and Calculation,” (SAE 973261); published in *Heavy Duty Braking and Steering*, SAE Publication SP-1307; Presented at the SAE International Truck & Bus Meeting and Exposition, Cleveland, OH, November 1997

Vehicle Accident Investigation: A Guide for Risk Managers and Claims Personnel, Roland A. Ruhl and Dwayne G. Owen, Published by Ruhl and Associates, 1994. Second printing Fall, 1996