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INJURY AND CRASH ANALYSIS, LLC

## BRUCE EDWARD ENZ

### curriculum vitae

#### EDUCATION

Ohio Wesleyan University, Delaware, OH, Summer School, 1964

Undergraduate Program - Biology Major, Heidelberg College, Tiffin, OH, 1964-67. Program (biology, mathematics, chemistry) interrupted for military service.

Johns Hopkins University, Baltimore, MD, Chemistry Course, 1970

Police Psychology and Accident Investigation Techniques, University of Illinois, Urbana, IL, 1975

A.A. Degree, Parkland Community College, Champaign, IL, 1976

B.A. Degree, University of Illinois, Urbana, IL, 1977

Multidisciplinary Highway Collision Training Course, Sponsored by U.S. Department of Transportation, National Highway Traffic Safety Administration, Phoenix, AZ, 1978

Selected graduate level courses completed as part of program in Forensic Science, George Washington University, Washington, D.C., 1983

#### PROFESSIONAL EXPERIENCE

Present                      Injury and Crash Analysis, LLC  
   Indianapolis, Indiana

Traffic accident investigation, reconstruction and analysis involving: on-site investigations, vehicle component damage analysis and the interpretation of scene and vehicle data; over 5,000 accidents since 1975 involving, but not limited to, automobiles, pedestrians, bicycles, motorcycles and trains.

Provides expert consultation and testimony in civil and criminal litigation involving traffic accidents and the determination, analysis, and evaluation of the pre-crash, crash and post-crash phases of the human, vehicle and

environmental factors that culminate in death or injury to vehicle occupants, pedestrians, and other road users.

#### PROFESSIONAL EXPERIENCE (Continued)

Reviews USDOT and related foreign governmental agencies Motor Vehicle Safety Standards as applied to occupant protection performance of vehicles.

Involved in evaluation of fleet safety practices, driver hiring and training, vehicle operation, maintenance and inspection of trucks and buses as required by BMCS regulations. Evaluation of vehicle safety components and safety hazards such as blind spots, off-tracking and air turbulence.

1980 - 1997                      The Institute for Safety Analysis, Inc.  
Gaithersburg, Maryland

Provided consulting services in traffic accident investigation and analysis to governmental agencies (e.g., Office of the U.S. Attorney, Washington, D.C.; Office of the Attorney General, Commonwealth of Pennsylvania; Office of the District Attorney, Fairfax County, Virginia)

Co-designer of the hand-held calculator marketed by the firm as the CAS-100 CRASH ANALYSIS SYSTEM.

Designer of a side-impact protection system (SIPS) for motorcycles.

1978 - 1980                      Management Engineers, Inc.  
Reston, Virginia

Dynamic Science, Inc.  
McLean, Virginia

Field Engineer - Served as Field Engineer of a Multidisciplinary Accident Investigation Team (MDAI) under contract awarded by the U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA). Primary focus on accidents involving school buses, fires with death or serious injury, tractor trailers equipped with anti-lock brakes, impact attenuator devices, seat belt failures and Ford vehicles "park-to-reverse" study.

1976 - 1978                      Various short-term jobs while enrolled in college.

1975 - 1976                      Gibson City Police Department  
Gibson City, Illinois

Uniformed Police Officer - Traffic accident investigation and law enforcement duties.

1967 - 1974                      Military Service - USAF - Interpreter and related work.

## PUBLICATIONS

Co-author of over 50 official MDAI reports on multidisciplinary accident investigations for the U.S. Department of Transportation, National Highway Traffic Safety Administration.

Classification of Information Generated in a Motor Vehicle Crash Sequence, "Mechanisms of Head and Spine Trauma," Robert Brenner, Ph.D., P.E., President of The Institute for Safety Analysis, Rockville, Maryland; and, Bruce E. Enz, Director of Accident Investigation and Analysis, The Institute for Safety Analysis, Rockville, Maryland.

Seventh International System Safety Conference, "Collision Forensics - The Crash - The Injury," Bruce E. Enz.

"Fiber-Plastic Fusions in Traffic Accident Reconstruction," Stephanie Masakowski, M.F.S., Bruce E. Enz, B.A., James E. Cothorn, and Walter F. Rowe, Ph.D.

Mathematical Modelling and Scientific Computing, "Mathematical approach to Side Underride Vehicular Accidents," Bruce E Enz, Yoshiki Oshida , Douglas N. Head, John E. Tomassoni, and Anthony Sances Jr.

Analysis of Side Underride Crashes Misconceptions and the Problems; Accident Investigation Quarterly, Issue 27, Summer 2001; Angela Trego Ph.D., Bruce Enz, AA, BA, Douglas N. Head, PE

Trego A, Enz B, Head D and Oshida Y. A Scientific Approach to Tractor-Trailer Side Underride Analysis. In: Advances in Vehicle Aggressivity and Compatibility, Side and Rear Impact and Rollover Protection, SP-1775, Society of Automotive Engineers, Warrendale, PA, SAE Technical Paper No. 2003-01-0178, pp. 41-47, 2003.

Biomedical Engineering Analysis of Glass Impact Injuries: Anthony Sances Jr., Fred Carlin, Srirangam Kumaresan, & Bruce Enz.