

Jackson Hole Scientific Investigations, Inc.

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A Consulting Firm Specializing in Traffic Crash Reconstruction and Scientific Inquiry

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Curriculum-Vitae

John G. Daily
January 14, 2013

Formal Education:

Bachelor of Science in Mechanical Engineering, Purdue University, West Lafayette, Indiana, June 1972.

Main areas of interest were automotive engineering, heat transfer and thermodynamics.

Master of Science in Mechanical Engineering, University of Wyoming, Laramie, Wyoming, May 2008.

“A Method for Vehicle - Wooden Utility Pole Impact Speed Reconstruction”

Specialized Training in Traffic Accident Investigation / Reconstruction:

On-Scene Traffic Accident Investigation, February 11-23, 1979, Wyoming Law Enforcement Academy, Douglas, WY. Course presented by Central Missouri State University. 80 P.O.S.T. (Peace Officers Standards & Training) hours

Technical Accident Investigation, November 3-21, 1980, Northwestern University, Evanston, IL. Course presented by the Traffic Institute. 120 P.O.S.T. hours

Traffic Accident Reconstruction, January 19-30, 1981, Northwestern University, Evanston, IL. Course presented by the Traffic Institute. 80 P.O.S.T. hours.

Traffic Accident Reconstruction, September 20-October 1, 1982, University of North Florida, Jacksonville, FL. Course presented by Institute of Police Technology and Management. 80 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 25-29, 1988, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 10-14, 1989, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 30 P.O.S.T. hours.

Advanced Traffic Accident Reconstruction Using Microcomputers, August 7-11, 1989, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 40 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 16-20, 1990, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 30 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 22-26, 1991, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 31 P.O.S.T. hours.

Fifth Annual Accident Reconstruction Conference, October 10-12, 1991, Illinois Association of Technical Accident Investigators, Normal IL. 24 CEU's.

Special Problems in Traffic Accident Reconstruction, April 19-23, 1993, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 30 P.O.S.T. hours.

Seventh Annual Accident Reconstruction Conference, October 14-16, 1993, Illinois Association of Technical Accident Investigators, Mundelein, IL. 10 CEU's.

VC-2000 Accelerometer, December 13-17, 1993, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 40 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 24-28, 1995, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 27 P.O.S.T. hours.

Ninth Annual Accident Reconstruction Conference, September 28-30, 1995, Illinois Association of Technical Accident Investigators, Collinsville, IL. 19.5 CEU's.

Special Problems in Traffic Accident Reconstruction, April 22-26, 1996, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management.

Tenth Annual Accident Reconstruction Conference, September 22-24, 1996, Illinois Association of Technical Accident Investigators, Collinsville, IL. 18 CEU's.

Eleventh Annual Crash Reconstruction Conference, September 18-20, 1997, Illinois Association of Technical Accident Investigators, Arlington Heights, IL. 18 CEUs

Special Problems in Traffic Accident Reconstruction, April 20-24, 1998, University of North Florida., Jacksonville, FL. I P. T. M. 28 P.O.S.T. hours.

Special Problems in Traffic Accident Reconstruction, April 26-30, 1999, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management 27 P.O.S.T. hours

Special Problems in Traffic Crash Reconstruction, May 1-5, 2000, University of North Florida, Jacksonville, FL. Institute of police Technology and Management. 27 P.O.S.T. hours

Southwest Association of Technical Accident Investigators Fall Conference, Nov. 3-4, 2000, Newport Beach, CA 12 CEUs

Special Problems in Traffic Crash Reconstruction, April 17-20, 2001, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 27 P.O.S.T hours

Thirteenth Annual Traffic Safety Enforcement Conference, May 1-3, 2001, Traffic Institute for Police Services, Seven Springs, PA

South Carolina Governor's Conference on Highway Safety, May 7-9, 2001. Columbia, SC.

Special Problems in Traffic Crash Reconstruction, April 15-19, 2002, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 32 P.O.S.T. hours

Fourteenth Annual Traffic Safety Enforcement Conference, April 30 - May 2, 2002, Traffic Institute for Police Services, Seven Springs, PA

Crash Data Recorder Operator's Certification Course, September 16-17, 2002, Collision Safety Institute, Rockford, IL.

Sixteenth Annual Crash Reconstruction Conference, September 18-20, 2002, Illinois Association of Technical Accident Investigators, Rockford, IL. 18 CEUs

Special Problems in Traffic Crash Reconstruction, April 28 – May 2, 2003, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 32 P.O.S.T. hours

Seventeenth Annual Crash Reconstruction Conference, September 10-12, 2003, Illinois Association of Technical Accident Investigators, Mt. Vernon, IL. 18 CEUs

Southwest Association of Technical Accident Investigators Spring Conference, March 26-27, 2004, Las Vegas, NV 12 CEUs

Special Problems in Traffic Crash Reconstruction, April 26 - 30, 2004, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 P.O.S.T. hours

Canadian Association of Technical Accident Investigators and Reconstructionists Conference, August 27-29, 2004. Fredericton, New Brunswick, Canada 12 CEUs

Eighteenth Annual Crash Reconstruction Conference, September 8-10, 2004, Illinois Association of Technical Accident Investigators, Peoria, IL. 20 CEUs

Special Problems in Traffic Crash Reconstruction, April 25- 29, 2005, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 P.O.S.T. hours

Midwest Association of Traffic Accident Investigators Conference, June 8-10, 2005. Rapid City, SD. 20 CEUs

South East Accident Reconstruction Society Conference, July 25-27, 2005, North Charleston, SC 18 CEUs

Canadian Association of Technical Accident Investigators and Reconstructionists Conference, August 28, 2005. Calgary, Alberta, Canada 8 CEUs

Wyoming Engineering Society Conference, February 2-4, 2006. Cheyenne, WY

Special Problems in Traffic Crash Reconstruction, April 24- 28, 2006, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 P.O.S.T. hours

Nebraska State Patrol Reconstruction Conference, August 15-17, 2006. Grand Island, NE. 20 CEUs

Twentieth Annual Crash Reconstruction Conference, September 6-8, 2006, Illinois Association of Technical Accident Investigators, Bloomington, IL. 20 CEUs

Pennsylvania State Police Reconstruction Seminar, September 26-28, 2006. State College, PA. 24 CEUs

American Board of Trial Lawyers Conference, October 5-6, 2006. Jackson, WY

Special Problems in Traffic Crash Reconstruction, April 23-27, 2007, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 POST Hours

Twenty First Annual Crash Reconstruction Conference, September 19-21, 2007, Illinois Association of Technical Accident Investigators, Bloomington, IL. 20 CEUs

Pennsylvania State Police Reconstruction Seminar, October 2-4, 2007. State College, PA. 24 CEUs

Wyoming Engineering Society Conference, January 31 – February 1, 2008, Cheyenne, WY.

Special Problems in Traffic Crash Reconstruction, April 21-25, 2008, University of North Florida, Jacksonville, FL. Institute of Police Technology and Management. 28 POST Hours

Alaska Accident Reconstruction Conference, July 6-13, 2008, hosted onboard the Celebrity Mercury, Vancouver B.C. to Juneau, AK

Pennsylvania State Police Reconstruction Conference, September 30 – October 2, 2008, State College, PA. 24 CEUs

Wyoming Engineering Society Conference, February 5-6, 2009. Casper, WY

Special Problems in Traffic Crash Reconstruction, April 20-24, 2009. Sponsored by the Institute of Police Technology and Management, UNF, Jacksonville, FL. Held in Orlando, FL. 28 CEUs

Twenty-Third Annual Crash Reconstruction Conference, September 16-18, 2009, Illinois Association of Technical Accident Investigators, Bloomington, IL. 20 CEUs

Pennsylvania State Police Reconstruction Conference, September 29 – October 1, 2009, State College, PA. 24 CEUs

Wyoming Engineering Society Conference, February 4-5, 2010. Laramie, WY

Special Problems in Traffic Crash Reconstruction, April 26-30, 2010. Sponsored by the Institute of Police Technology and Management, UNF, Jacksonville, FL. Held in Orlando, FL. 28 CEUs

Twenty-Fourth Annual Crash Reconstruction Conference, September 15-17, 2010, Illinois Association of Technical Accident Investigators, Bloomington, IL. 20 CEUs

Pennsylvania State Police Reconstruction Conference, September 29 – October 1, 2010. State College, PA. 24 CEUs

CAARS Conference, October 14-16, 2010. South Lake Tahoe, CA. 20 CEUs

Wyoming Engineering Society Conference, February 2-3, 2011. Cheyenne, WY.

Special Problems in Traffic Crash Reconstruction, May 2-6, 2011. Sponsored by the Institute of Police Technology and Management, UNF, Jacksonville, FL. 28 CEUs

Twenty Fifth Annual Crash Reconstruction Conference, September 19-23, 2011. Illinois Association of Technical Accident Investigators, Bloomington, IL. 30 CEUs

Pennsylvania State Police Reconstruction Conference, September 27-29, 2011. State College, PA. 24 CEUs

XXI National Congress of Criminalistics of Brazil, October 30 – November 4, 2011. Gramado, RS, Brazil

Wyoming Engineering Society Conference, February 2-3, 2012. Sheridan, WY

Special Problems in Traffic Crash Reconstruction, April 30-May 4, 2012. Sponsored by the Institute of Police Technology and management, UNF, Jacksonville, FL. 28 CEU

VIII Seminario Nacional de Pericia Em Crimes de Transito, August 27-31, Brasilia, Brazil. 30 hours

Twenty Sixth Annual Crash Reconstruction Conference, September 18-21, 2012. Illinois Association of Technical Accident Investigators, Peoria, IL. 30 CEUs

Specialized Training in Ballistics and Firearms Use:

Police Firearms Instructor, May 26, 1978, Wyoming Law Enforcement Academy, Douglas, WY. 40 P.O.S.T. hours

Hostage Negotiations, March 31, 1981, Jackson, WY, FBI, 24 P.O.S.T. hours.

S.W.A.T. Team Leader, May 10, 1981, Ft. Collins, CO, FBI, 24 P.O.S.T. hours.

Firearms Instructor Workshop, September 3, 1981, Wyoming Law Enforcement Academy, Douglas, WY. 10 P.O.S.T. hours.

Explosive Ordnance Disposal, March 25, 1982, Jackson, WY, U.S. Army, 24 hours.

Tactical Use of Gas, June 3, 1982, Jackson, WY, 8 P.O.S.T. hours.

Advanced Hostage Negotiations, April 21, 1983, Jackson, WY, 24 P.O.S.T. hours.

Advanced Field Tactics, August 23; 1983, Mammoth Hot Springs, WY, 16 hours.

Advanced Field Tactics, March 22, 1984, Jackson, WY. 16 P.O.S.T. hours.

Use of Deadly Force, July 1, 1984, July 1, 1984, 24 P.O.S.T. hours.

Advance Hostage Negotiations / Special Weapons, October 19, 1984, Jackson, WY, 50 P.O.S.T. hours.

Hostage Rescue Training, September 7, 1985, Jackson, WY, 40 P.O.S.T. hours.

Police Counter-Sniper (Instructor), December 17, 1986, Jackson, WY, 48 hours.

Use of Force, February 6, 1987, Jackson, WY, 16 P.O.S.T. hours.

Law Enforcement Rifle Instructor Development, September 23, 1988, Jackson, WY, NRA 44 P.O.S.T. hours.

Basic Firearms and Marksmanship, June 8, 1989. Jackson, WY, 24 P.O.S.T. hours.

Basic Law Enforcement Rifle Instructor Prep, August 30, 1989, Jackson, WY, 48 hours.

Protective Operations Briefing, June 29, 1990, Moose, WY, 14 P.O.S.T. hours.

S.W.A.T: Tactical Update, November 5, 1993, Jackson, WY, 16 P.O.S.T. hours.

NRA Training Counselor (Rifle), May 1994, Raton, New Mexico. 40 hours

Special Response Teams, December 8, 1996, Jackson, WY, Las Vegas Metro SWAT 16 P.O.S.T. hours.

Special Response Team II, January 25, 1997, Jackson, WY, Las Vegas Metro SWAT 16 P.O.S.T. hours.

Level 1 Sniper & Observer Team, May 22, 1997, Camp Swift, TX, L.O.D. 75 hours.

Level 11 Sniper & Observer Team, May 26, 1997, Camp Swift, TX, L.O.D. 70 hours.

Level 111 Sniper & Observer Team, May 30, 1997, Camp Swift, TX, L.O.D. 65 hours.

Use of Force Update, June 2, 1997, Wyoming Law Enforcement Academy, Jackson, WY, 4 P.O.S.T. hours.

Glock Armorer, October 10, 1997, Jackson, WY, Glock, Inc. 8 P.O.S.T. hours.

Current Employment:

Owner of Jackson Hole Scientific Investigations, Inc.
Adjunct Faculty, Institute of Police Technology and Management, University of North Florida, Jacksonville, FL (904) 620-4786

Employment History:

Chief Engineer, Butler Creek Corporation, Jackson, WY. June 1975 to August 1977
Teton County Sheriff's Office, Sworn Deputy, U/C Narcotics: June-August 1973
Teton County Sheriff's Office, Sworn Deputy, U/C and Patrol, June-December 1974
Teton County Sheriff's Office, Sworn Deputy, Patrol, August-September 1977
Teton County Sheriff's Office, December 1977 through July 31, 2002 (Retired)
Over 25 years of law enforcement experience, including assignments as Patrol Deputy, Training Supervisor, Detective Sergeant, and Patrol Sergeant.

Responsibilities have included all types of criminal investigation, SWAT duties as a counter-sniper and entry team, search and rescue operations, general patrol duties, patrol supervision, and traffic accident investigation & reconstruction. I have assisted numerous agencies in Wyoming and across the country with the investigation and reconstruction of traffic crash cases.

Teaching Experience:

Certified by the State of Wyoming Peace Officer's Standards and Training Commission as a Police Instructor with a specialty of teaching traffic accident investigation and the tactical use of firearms. General Instructor Certification. (Lapsed)

Certified by the State of Florida Commission on Criminal Justice Standards and Training as an instructor for having fulfilled the requirements for training police.

Adjunct faculty member of the staff of the Institute of Police Technology and Management at the University of North Florida, Jacksonville, Florida, since 1982.

Courses I have taught and/or helped develop include:

At-Scene Accident Investigation
Advanced Accident Investigation
Traffic Accident Reconstruction
Traffic Accident Reconstruction Using Microcomputers
Fundamentals of Applied Physics for Traffic Accident Investigators
Commercial Vehicle Crash Investigation
Traffic Crash Reconstruction Update
Energy Methods and Damage Analysis for Traffic Crash Reconstruction
Police Sniper / Counter Sniper
Law Enforcement Rifle
Law Enforcement Pistol
4-H Shooting Sports Instructor (Air Rifle)

I have taught courses for the following agencies or organizations:

Teton County Sheriff's Office
Jackson Police Department
Wyoming Law Enforcement Academy
Grand Teton National Park
Yellowstone National Park
Southwest Association of Technical Accident Investigators
Illinois Association of Technical Accident Investigators
Ryerson University, Vehicle Safety Research Centre, Toronto, Ontario, Canada
Traffic Institute for Police Services, Harrisburg, PA
Midwest Association of Technical Accident Investigators
Canadian Association of Technical Accident Investigators and Reconstructionists
South East Accident Reconstruction Society, Inc.
Land Transport New Zealand, Hamilton, New Zealand
Nebraska State Patrol
Pennsylvania State Police
National Defense Attorney's Association
University of North Florida, Institute of Police Technology and Management

I have taught courses all over the United States, in Canada, New Zealand, Jamaica, and Brazil during my association with IPTM Ministry of Transport, Kingston, Jamaica

Professional Societies:

American Society of Mechanical Engineers, member
Society of Automotive Engineers, member
National Association of Professional Accident Reconstruction Specialists, member
Illinois Association of Technical Accident Investigators, member
Midwest Association of Technical Accident Investigators, member
National Rifle Association, Endowment member

Publications:

Law Enforcement Journal articles:

“Speed Combination Techniques,” Law and Order, Vol. 32, No. 4, April, 1984

“Perspective Grid Mapping – Slide Method,” Law and Order, Vol. 34, No. 6, June 1986

“Damage Photo Analysis - Interpretation,” Law and Order, Vol. 35, No. 6, June 1987

Law Journal Articles:

“The Traffic Crash Reconstructionist as an Expert Witness,” Wyoming Lawyer, Vol. 33, No. 3, June 2010

Text Books:

Fundamentals of Traffic Accident Reconstruction, Daily, J., University of North Florida, Institute of Police Technology and Management, Jacksonville, Florida, 1988.

Fundamentals of Applied Physics for Traffic Accident Investigators, Daily, J. and Shigemura, N., University of North Florida, Institute of Police Technology and Management, Jacksonville, Florida, 1997.

Fundamentals of Traffic Crash Reconstruction, Daily, J., Shigemura, N. and Daily, J., University of North Florida, Institute of Police Technology and Management, Jacksonville, Florida, 2006.

Peer Reviewed Papers/Publications:

Daily, J. “*Motorcycle Speed Estimates*”, Accident Reconstruction Journal, Volume 2, No. 2, March-April 1990

Fussell, L.M., Bishop, G., Daily, J., “*The Society of Automotive Engineers Clean Snowmobile Challenge 2000: Summary and Results*”, SAE No 2000-01-2552, Society of Automotive Engineers, September 2000. (Also published in SAE 2000 Transactions, Journal of Commercial Vehicles, Section 2)

Fussell, L.M., Daily, J., Haines, H., Roseberry, S., and White, J.J., “*The Society of Automotive Engineers Clean Snowmobile Challenge 2001: Summary and Results*”, SAE No 2001-01-3652, Society of Automotive Engineers, September 2001.

Daily, J., Raap, K., “*Over-Snow Vehicle Sound Level Measurements*”, SAE No 2002-01-1656, Society of Automotive Engineers, March 2002. (Also published in SAE 2002 Transactions, Journal of Engines, Section 3)

Fussell, L.M., Bishop, G., Daily, J., Haines, H., Roseberry, S., “*The Society of Automotive Engineers Clean Snowmobile Challenge 2002: Summary and Results*”, SAE No 2002-01-2755, Society of Automotive Engineers, September 2002.

Daily, J., Raap, K., “*Supplemental Over-Snow Vehicle Sound Level Measurements*”, SAE No 2002-01-2766, Society of Automotive Engineers, October 2002.

Daily, J.G., Daily, J.S., “*Snow Plane Sound Level Measurements*”, SAE No 2008-01-2746, Society of Automotive Engineers, July 2008

Daily, J.G., Daily, J.S., Rich, A.S., “*A Method for Vehicle – Wooden Utility Pole Impact Speed Reconstruction*”, Accident Reconstruction Journal, Volume 19, No. 5, September – October 2009

White Papers: Many of these papers have been presented several times at multiple conferences or classes

“*Airborne Equations,*” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1989

“*Trailer Stability in Articulated Vehicles,*” University of North Florida, I.P.T.M, Jacksonville, FL, 1990

“*Critical Speed Analysis,*” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1991

“*Friction and Energy Methods for Speed Computation,*” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1993; rev 1999

“*Tire Forces, Accelerometers and Skid Testing,*” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1995

“*Applied Aerodynamics for Traffic Accident Investigators,*” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1996

“Checking Your Work – Methods for the Traffic Accident Investigators,” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 1998.

“Mathematical Analysis of the Staged Crash,” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 2000 (with N. Shigemura)

“Who was Driving?” S.A.T.A.I. Fall Conference, Jackson Hole Scientific Investigations, Inc, Jackson, WY, 2000

“Practical Evidence Interpretation - Keeping it Simple,” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2001 (with N. Shigemura)

“Investigating the Aggravated Vehicular Homicide Case,” Wyoming Prosecutor’s Association Fall Meeting, Casper, WY, 2001

“An Introduction to Rotational Mechanics,” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL, 2002 (with N. Shigemura)

“Energy Methods for Pole and Fixed Object Impacts,” I.A.T.A.I. Conference, Rockford, IL, 2002

“Spin Analysis,” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2003

“A Study of Lateral Vehicle Motion” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2004 (With N. Shigemura and J. Daily)

“Fundamentals of Rollover Crash Reconstruction”, I.A.T.A.I. Conference, Peoria, IL 2004

“Reconstruction Update” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2005 (with N. Shigemura)

“Validation of the Airborne Equations” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2005 (with N. Shigemura)

“Crash Analysis with Under-rides and Coefficient of Restitution” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2006 (With J.S. Daily and R. Strickland)

“An Analysis of Three Vehicle - Utility Pole Impacts” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2007 (with R. Strickland)

“To COLM or Not to COLM – That is the Question” IATAI Conference, Bloomington, IL 2007

“Conservation of Linear Momentum and Occupant Kinematics”, Pennsylvania State Police Reconstruction Seminar, 2007

“Engineering Applications for Traffic Crash Reconstruction” Wyoming Engineering Society Conference, 2008

“Accounting for Impulse and Rotation: An Application to Left-turn, Fail to Yield Collisions” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2008 (with J.S. Daily)

“Multiple Departure Momentum Analysis” University of North Florida, Institute of Police Technology and Management, Jacksonville, FL 2008 (with N. Shigemura)

“Critical Speed Yaw Analysis and Testing”, Alaska Accident Reconstruction Conference, onboard the Celebrity Mercury, July 6-13, 2008

“Pole and Narrow Object Impacts”, Pennsylvania State Police Reconstruction Seminar, State College, PA October 2, 2008

“Pole and Narrow Object Impacts”, *“Critical Speed Yaw Situations”*, *“Investigating Rollover Collisions”*, CAARS Reconstruction Conference, October 15, 2008

Critical Speed Yaw Analysis”, *“Pole and Narrow Object Impacts”*, SATAI Conference, San Diego, CA October 30, 2008

“Outside Crash Test Results”, IPTM Special Problems in Traffic Crash Reconstruction, Orlando, FL April 24, 2009

“Pole Impact Reconstruction”, NLEC Conference, Seven Springs, PA May 13, 2009 and MATAI Conference, Wisconsin Dells, WI June 10, 2009

“Rollovers, Occupant Kinematics, and Ejection Issues”, IATAI Conference, Bloomington, IL September 17-18, 2009

“Critical Speed Yaw Analysis”, Pennsylvania State Police Reconstruction Seminar, State College, PA October 1, 2009

“Outside Crash Test Results”, IPTM Special Problems in Traffic Crash Reconstruction, Orlando, FL April 30, 2010

“Tires, Tire forces, and Stability”, IATAI Conference, Bloomington, IL September 16-17, 2010

“Tires, Tire forces, and Stability”, Pennsylvania State Police Reconstruction Seminar, State College, PA, September 29, 2010

“Fundamentals of Energy Analysis”, “Spin Analysis”, “Calculating Δv and Impact speed from Crush”, “Tires, Tire Forces, and Stability”, CAARS Conference, South Lake Tahoe, CA October 14-16, 2010

“Rollover Crash Investigation and Testing”, IPTM Special Problems in Traffic Crash Reconstruction May 6, 2011

“Addressing New Technology Issues Using Physics Based Reconstruction”, IATAI Conference, Bloomington, IL September 19-23, 2011

“Damage Profile Measuring Procedures”, Pennsylvania State Police Reconstruction Seminar, State College, PA September 29, 2011

“Applying Engineering Principles to Traffic Crash Reconstruction”, XXI National Congress of Criminalistics of Brazil, Gramado, RS, Brazil October 31, 2011

“Vehicle-Pole Impact Analysis”, XXI National Congress of Criminalistics of Brazil, Gramado, RS, Brazil November 1, 2011

“Crash Test Overview- Trailer Under-rides” Special Problems in Traffic Crash Reconstruction, April 30-May 4, 2012. Sponsored by the Institute of Police Technology and management, UNF, Jacksonville, FL.

“Energy Methods and Damage Analysis” VIII Seminario Nacional de Pericia Em Crimes de Transito, August 27-31, Brasilia, Brazil

“Uniform Circular Motion and Critical Speed Yaw Analysis” VIII Seminario Nacional de Pericia Em Crimes de Transito, August 27-31, Brasilia, Brazil

“Introduction to Rotational Mechanics” VIII Seminario Nacional de Pericia Em Crimes de Transito, August 27-31, Brasilia, Brazil

“Motorcycle Crash Analysis” Twenty Sixth Annual Crash Reconstruction Conference, September 18-21, 2012. Illinois Association of Technical Accident Investigators, Peoria, IL.

Awards:

Outstanding Service Award, Teton County Peace Officers Association, 1980.

Peace Officer of the Year, Teton County Peace Officers Association, 1981

Certificate of Appreciation, University of North Florida, Institute of Police Technology and Management, 1989

Leadership Award, American Red Cross, State Service Council, 1993.

Recognition of Contributions and Efforts, Oklahoma State Patrol Academy, 1992

Outstanding Presenter, University of North Florida, Institute of Police Technology and Management, 1996

Outstanding Presenter, University of North Florida, Institute of Police Technology and Management, 1998

Who's Who in the World, Sixteenth Edition, subject of biographical record, The Marquis Who's Who Publications Board, 1999.

Certificate of Appreciation, SAE Engineering Education Board, 2000 SAE International Congress and Exposition

Outstanding Presenter, University of North Florida, Institute of Police Technology and Management, 2001

Outstanding Presenter, University of North Florida, Institute of Police Technology and Management, 2002

Member, Mechanical Engineering Industrial Advisory Board, the University of Tulsa, Tulsa, OK 2009

Research Work:

During my teaching career with IPTM, I have conducted hands-on studies of several aspects of traffic accident reconstruction and investigation. Among these are skid analysis, both with and without anti-lock brakes, use of accelerometers for skid testing, critical speed yaw analysis, fall and vault studies, pedestrian walking and running speeds, pedestrian dynamics in collisions with vehicles, and occupant kinematics / dynamics in both low and street speed collisions. I have also tested drag factors for pedestrians wearing various clothing, the drag factors for motorcycles skidding and sliding down on the ground, and drag factors for commercial vehicles. I have performed analysis of vehicles impacting poles and into or running under semi-trailers. I have conducted research into motorcycle crash dynamics and stability. I have done extensive study of vehicle – pole impact speed reconstruction by means of full scale crash testing. I have also designed and conducted numerous full scale crash tests in conjunction with colleagues at IPTM and the University of Tulsa. Much of this research has been published as white papers at conferences or through peer reviewed publications.

Experience:

My background in traffic accident reconstruction is varied and extensive. I have reconstructed many different types of traffic crashes, including those involving commercial vehicles, motorcycles, pedestrians, bicyclists, snowmobiles and all terrain vehicles. In many of these cases I have been the initial investigator on scene. I have testified as an expert witness in district courts in several states, including Wyoming, Idaho, California, South Dakota, and Tennessee. I have also testified in several cases in United States District Court for the district of Wyoming. Deposition and trial testimony are considered one of my strong points. In addition I have worked several firearms cases, including gun failures and exterior ballistics analysis through the use of 3 DOF computer models.

Patent:

I was issued United States Patent # 4,175,493 for the invention of a new type of discarding sabot for use in muzzle loading rifles. The patent was issued in 1977 while I was employed as a mechanical engineer by Butler Creek Corporation in Jackson, WY.

References:

References available upon request