

EDUCATION:

Maine State Police Academy

Augusta, Maine, **1970**

Courses included Basic Police Sciences with Basic Accident Investigation, Scene Documentation, Measurement Process, Photography, and Gathering of Physical Evidence.

Northwestern University Traffic Institute at Augusta

Augusta, Maine, **August 1973**

Three-week course in Accident Investigation and Police Traffic Services which included instruction on Vehicle Speed Determination from Physical Evidence, Damage Identification and Interpretation, Vehicle Dynamics from Collision, Force Vectors, and Occupant Movement.

Minnesota State Patrol Academy

New Brighton, Minnesota, **1978**

Accident Reconstruction Specialist School given by M.J. Lofgren, author of the Handbook for the Accident Reconstructionist, which included intense Specialized Training on Formula Derivations and Application, Determinations of Vehicle Speed from Skidding, Scuffing (Yaw), Vaults, Falls, and Angle Collisions. Instruction included Conservation of Momentum, Energy, Time/Distance Analysis, Vehicle Dynamics, and pre- and post-impact. Fieldwork was included to evaluate/verify areas of instruction.

Minnesota State Patrol Academy

New Brighton, Minnesota, **1978 & 1979**

Accident reconstruction seminars, which included additional training in Determination of Vehicle Speeds from Skids, Scuffs, Vaults, and the Application of the Same to Trucks. Field-testing was included to create and solve accident situations.

State of New York, Bureau of Police Training

Rensselaer, New York

Radar Instructor's course which included Background and Basic Principles of Radar, Radar Operation with Visual Speed Estimates, Training, and Testing.

Michigan State Police Academy

Lansing, Michigan, **1981**

Accident Reconstruction Seminar co-hosted by the IAARS. Course included instruction on Vehicle Construction and Dynamics, Occupant Kinematics, and Time/Distance. Field evaluations were conducted at the General Motors Proving Grounds in Detroit.



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EDUCATION:

United States Department of Transportation • Federal Highway Administration

Augusta, Maine, **1982**

Course in Highway Safety Engineering, which included instruction in Highway Design, Safety, and Evaluation. Highway Speed Limit Determinations, Critical Speeds, and Vehicle Speed Determinations were included. Vehicle Dynamics and Collision Results were also included.

Idaho State Police Academy

Boise, Idaho, **1982**

Accident Reconstruction Seminar co-hosted by the IAARS, which included Evaluation of Damage and Vehicle Dynamics, Speed Determination for Large Trucks, Determination of Brake Percentage Applicable to Trucks and Cars. Field tests were conducted and included Crash Testing.

Maine State Police Seminar

Portland, Maine, **1983**

Co-hosted by the IAARS. Included instruction on Conspicuity, Dynamics, Kinematics, and Momentum. Field tests included Skidding of Buses, Trucks, and Cars, Crash Tests between vehicles were conducted as well as Vault Tests.

Utah Highway Patrol

Salt Lake City, Utah, **1984**

Seminar on Accident Reconstruction, co-hosted by the IAARS.

University of North Florida, Institute of Police Technology & Management

Jacksonville, Florida, **1984**

Special Problems in Accident Reconstruction Seminar which included instruction in Pedestrian Accidents, Photography, and Large Truck Collisions with Tip Overs. A second course was included on Tire Forensics.

Louisiana State Police & New Orleans Police Department

New Orleans, Louisiana, **1985**

Accident Reconstruction Seminar co-hosted by the IAARS, which included Expert Testimony, Photography, Momentum and Energy Calculations, Visibility Issues, Time/Distance, Dynamics, and Kinematics.

University of North Florida, Institute of Police Technology & Management

Jacksonville, Florida, **1986**

Special Problems in Accident Reconstruction Seminar which included updated information on Scene Examinations, Damage Determinations and Evaluations, Human Response, Nighttime Visibility, and Momentum Analysis.



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EDUCATION:

**New England State Police Administrator's Conference
Police Supervision School**
Framingham, Massachusetts, 1986

Massachusetts State Police, Seminar
Boston, Massachusetts, 1987
Accident Reconstruction Seminar co-hosted by the IAARS.

California Highway Patrol
Lake Tahoe & Sacramento, California, 1988
Seminar co-hosted by the IAARS, included information on Bus and Motorcycle Accidents, Vehicle Dynamics, and Formula Application. Field tests were conducted with school buses and motorcycles.

Idaho State Police Academy
Boise, Idaho, 1988
Seminar on Large Truck Accidents with Myron J. Lofgren which included instruction on Evaluation of Braking Percentages and their Application to Large Truck Accidents; weight slides, tip-overs, and jackknives. Field tests were conducted.

University of British Columbia
Vancouver, BC, 1990
Accident Reconstruction Seminar co-hosted by IAARS, which included Vehicle Dynamics, Damage, Occupant Kinematics, and Low Speed Crash Evaluation. Numerous test crashes were conducted, analyzed, and reviewed.

Central Missouri State University & IAARS Seminar
St. Louis, Missouri, 1991
Seminar included Car/Train Collisions, Vehicle Dynamics, Occupant Kinematics, and Computer Aided Reconstruction.

Texas Association of Accident Reconstruction Specialists Seminar (TAARS)
Houston, Texas, 1992
Seminar involved Numerous Low Crash Tests for Evaluation of Dynamics, Occupant Movement, Energy, Damage, and Momentum.

Charleston Police Department IAARS Reconstruction Seminar
Charleston, South Carolina, 1992
Pedestrian Accidents, Bicycle Accidents, and Field Tests of Staged Crashes.

EDUCATION:

MATAI ,NAPARS & NATARI Joint Annual Conference

Ocean City, Maryland, **October, 1993**

Advanced Collision Analysis and Accident Reconstruction which included Staged Pedestrian Crashes, Dynamics, Kinematics and Injury.

Society of Automotive Engineers International (SAE)

Symposium Head & Neck Injury

Denver, Colorado, **December, 1993**

Anatomy of the Head and Neck, Brain Injury, CNS Trauma and its Psychological Effects, Facial Trauma, Helmet Protection, Biomechanics of Neck Injuries, Anterior and Posterior Neck Injuries, and Prevention.

Society of Automotive Engineers (SAE) Seminar

Injuries, Anatomy, Biomechanics and Federal Regulations

Detroit, Michigan, **March 1-3, 1994**

Injury, Anatomy, Human Tolerance, and Biomechanics Testing Procedures and Results, Facial Trauma, Helmet Protection, Biomechanics of Neck Injuries, Anterior and Posterior Neck Injuries, and Prevention.

Association for the Advancement of Automotive Medicine in cooperation with International Research Council on the Biomechanics of Impact

Biomechanics and Current Occupant Restraint Issues

Washington, DC, **April 6-7, 1995**

Included a History of Biomechanics, Occupant Kinematics by Crash Type, Crash Severity Assessment, Injury Severity and Impairment Assessment, Federal Motor Vehicle Safety Standards (FMVSS), Anatomy of the Human Body, Injury Types and Mechanisms, Limits of Current Seat Belts, Injuries to Restrained Children, Air Bag Performance, and Restraint Technology.

Technical Workshop

San Francisco, California, **May 4-5, 1995**

Human Performance, Air Bag Effectiveness, Passive Restraints, Injury Analysis, Legal Considerations, Real World Data, and Collision Performance.

Texas A&M University • Texas Engineering Extension Service

College Station, Texas, **June 12-16, 1995**

Included Biomechanics, Physicians View of Accidents, Injury Classification, Crash Tests and Occupant Response, Principal Direction of Force, Delta V, Occupant Dynamics, Blunt and Sharp Injuries, Mechanics of Materials, Analysis and Documentation of Evidence, Occupant Restraint Testing, Physical Evidence, and Emergency Care.



EDUCATION:

Association for the Advancement of Automotive Medicine

Annual Conference

Chicago, Illinois, **October 15-18, 1995**

Included Alcohol's Role in Driving and Injuries, Seat Belt Usage Studies, Injury Patterns and Mechanisms, Intelligent Restraint Systems, Crash and Vehicle Characteristics and Injury Risk, Injury Outcome Studies, Fatality Risk Studies, Driver Licensing and Impairment.

Society of Automotive Engineers International (SAE)

Sensor Design for Automobile Air Bag Systems

Troy, Michigan, **August 16, 1996**

Overview of an Air Bag System, Crash Analysis, Requirement of Air Bag Deployment and Crash Sensing, Crash Sensing by Velocity and Crush, Future Trends and Developments in Crash Sensing.

Texas A&M University • Texas Engineering Extension Service

Analysis of Low Speed Collisions

San Diego, California, **September 30 - October 4, 1996**

Included Automotive Safety and Low Speed Collisions, Force, Momentum, Delta V, PDOF and Energy Damage, Delta V Applications, Biomechanics Overview, Biomechanics - Physical Parameters, Anatomy and Biomechanics of Frequently Claimed Injury Areas, Low Speed Biomechanics - Definitions and Test Methods, Low Speed Impacts - Occupant Motion and Tolerances, Evaluating Depositions and Medical Records, Crash Tests of Low Speed Rear-end and Sideswipe Collisions.

TAARS-SOAR-WATAI-Combined Conference at Texas A&M University

College Station, Texas, **March 20-22, 1997**

Work-zone Traffic Control, Application of Biomechanics for Automotive Crash Trauma, Low Speed Crash Testing, Truck Under-ride Accidents, Air Bag Deployment, and Air Bag Deployment Investigation.

Association for the Advancement of Automotive Medicine

Crashes and Occupant Injuries: A Team Approach to Crash Investigation

Tempe, Arizona, **April 24-25, 1997**

Crash Scene Evidence; Investigating Crashes by Type; Post-Crash Examination of Vehicles (Hands-on); Multiple Collisions; Tree/Pole Impacts; Compatibility Issues; New Techniques for Crash Investigation; Defining Crash Mode, Its Frequency and Injury Risks; Change in Velocity; Principal Direction of Force; Restrained Versus Unrestrained Occupant Kinematics; Importance of Seating Position; and Physiological Variation. Aspects specific to crash type such as far-side and near-side occupants, seat performance, and roof crush. Hands-on examination of vehicles involved in different types of collisions with specific emphasis on vehicle damage, occupant kinematics, and injury risk.



EDUCATION:

Society of Automotive Engineers International (SAE)

High Speed Rear-end Impacts

Tempe, Arizona, **October 1997**

Perspective of Problems Associated with High Speed Rear-end Impacts; Analysis of Occupant Dynamics and Injury Biomechanics; Field Data Analysis; Mechanisms of Injury and Associated Forces; Review of High Speed Rear Impact Cases; Fuel System Design and Performance; Vehicle Structures; High Speed Crash Test Preview and Review.

New York Statewide Accident Reconstruction Society (NYSTARS)

2001 Joint Annual Conference: Investigating Bus and Train Collisions

October 2 to October 4, 2001, Albany, New York

Train vs. Pickup Truck, Bus vs. Auto, Auto vs. Bus Crash Testing; Commercial Vehicle Collision - Case Studies; Overview of the New York Public Transportation Safety Board (NYPTSB): Prevention and Investigation of Bus Accidents; Pavement Surface, Water Hazards and other Roadway Issues Affecting Large Vehicles - Case Studies; Overview of the Highway Accident Investigation Division of the National Transportation Safety Board (NTSB); Forensic Animations; Drag Sled Uncertainty Testing Results and Additional Testing (continued from WREX 2000).

New York Statewide Traffic Accident Reconstruction Society (NYSTARS)

Accident Reconstruction Seminar

April 12, 2002, Yorktown Heights, New York

Biodynamics and Occupant Kinematics: Assessment of Injury Potential from Low Velocity Impacts/Collisions; Review of the NASCAR/Dale Earnhardt crash reconstruction.

University of North Florida, Institute of Police Technology & Management

Special Problems in Traffic Accident Reconstruction 2002

April 15-19, 2002, Jacksonville, Florida

Controlled Test Crashes: Motorcycles with Full-sized Motor Vehicles; Commercial Motor Vehicle Anti-lock Braking Systems (ABS), including field tests; Human Factors; Use of Momentum Calculations in Motorcycle Collisions; Commercial Vehicle Rollover Data and Testing; Rotational Mechanics and Energy Methods in Collision Reconstruction.

National Association of Professional Accident Reconstructionists (NAPARS)

2002 Joint Annual Conference: Introduction to Event Data Recorders and Crush Documentation and Analysis

September 11-13, 2002, Ocean City, Maryland

Future of Occupant Safety Systems, Heavy Truck Engine Control Modules (ECM), Crush Measurement Protocol, Crush Measurements and Application to Mathematical Formulae and Computer Programs, Real World Experience with EDR/CDR Technology, Live Crash Testing and Bus Skid Testing, ECM & CDR Results.



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EDUCATION:

Collision Safety Institute (CSI)

Crash Data Retrieval (CDR) Training & Certification

September 16-17, 2002, Rockford, Illinois

History and Methodology; System Components-What Gets Recorded; Recovery Methods; Near-Deploy vs. Deploy Events; System Status Data; Sensing/Diagnostic Module (SDM) Characteristics; Legal Issues; Practical Download Exercises.

Illinois Association of Technical Accident Investigators (IATAI)

Crash Conference 2002

September 18-20, 2002, Rockford, Illinois

Pole/tree Impacts with Live Crash Testing; Breakaway Energy; The Traffic Victim: Forensic Pathology; Perception/Reaction Estimate Methodology; Prosecution Process for Criminal Cases.

Maryland Association of Traffic Accident Investigators

2004 Combined Conference on Motor Vehicle Collision Reconstruction

October 2004, Ocean City, Maryland

Topics included Criminal Litigation in Accident Reconstruction, Field Crash Testing, DNA in Accident Reconstruction, Excel and Spreadsheets for Accident Reconstruction, Electronic Crash Data Recorders, Internet Resources for Accident Reconstruction, NHTSA Early Warning Reporting Regulations.

South Carolina Association of Reconstruction Specialists (SCARS)

2005 Southeastern Collision Reconstruction Conference

July 2005, Charleston, South Carolina

Crash Testing (examination of Event Data Recorder (EDR) crash data with specific characteristics; Investigating Pedestrian Collisions; Strategies for Evaluating Human Factors in Night-time Collisions (including research study participation and data review); Critical Vehicle Systems and Future Trends in Automotive Systems; Inspecting Altered Suspension Systems; Energy Methods for Pole and Narrow Object Impacts.

Maryland Association of Traffic Investigators

Joint Conference

October 5-7, 2005, Wilmington, Delaware

Manual on Uniform Traffic Control Devices; Asphalt/pavement design; Child Restraints; Curve Collisions; Safety Evaluation of Highway Features; Drainage Issues; R.R. Crossings; Sight Distance; Perception of Intoxicated Operators.



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EDUCATION:

Texas Association of Accident Reconstruction Specialists

Joint Conference

September 17-21, 2006, Houston, Texas

Crash Testing; Dynamic TTST deceleration testing; Tire-Road Friction and Drag Sleds; Human Error, Perception/Reaction; Crush Analysis Formulas; Night-Time Visibility Studies and digital photographs; Highway Sightlines; Reconstruction of the 1955 James Dean Crash.

Maine State Police

Crash Testing/training

June 7, 2007, Biddeford, Maine

Multiple low and moderate speed crash tests.

New York Statewide Traffic Accident Reconstruction Society

Joint Conference

October 24-26, 2007, Binghamton, NY

Crash Testing (90-degree two vehicle and barrier impacts); CDR Updates; Collisions as Signalized Intersections; Occupant Injury Patterns.

National Association of Professional Accident Reconstructionists (NAPARS)

2009 Joint Annual Conference

October 7 – 9, 2009 Ocean City Maryland

Commercial vehicle electronic data; Tuck crash testing; Newton's Laws of Motion and Accident Reconstruction; Aerial Photography and Forensic Mapping; Airbrakes and stopping ability; Conservation of Linear Momentum.

University of North Florida, Jacksonville, Institute of Police Technology and Management

Special Problems in Traffic Crash Reconstruction

April 26 – 30, 2010 at Orlando

Validation of Drag Sled Testing; Case Preparation & Courtroom Presentation; Planning and Bullet Proofing Reconstruction; Occupant Kinematics & Biomechanics (including crash testing); Instrumentation and Testing for Crash Reconstruction (including crash testing); Review and examination of test results.



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EDUCATION:

Illinois Association of Technical Accident Investigators
25th Anniversary Traffic Crash Reconstruction Conference
September 19-23, 2011 Bloomington, Illinois

Reflectivity and Today's Headlights
Crash Data Retrieval and Federal Mandates
GPS Navigation
Air Brake Timing and Testing
Cable Rail and Barrier Devices
Latest Vehicle Technologies – Driving - Testing and Demos
New Technology Issues in Physics Based Reconstruction Analysis
ECM Technology Update
Motorcycle and vehicle Test skidding with and without ABS
Crash Tests

NOT FOR DISCLOSURE