

GARRY W. MOORE

CURRICULUM VITAE

EDUCATION:

County College of Morris, Randolph, New Jersey, A.S. in Criminal Justice, 1986
Fairleigh Dickenson University, Madison, New Jersey, Certificate in Public Service
Administration, 1994
Fairleigh Dickenson University, Madison, New Jersey, B.A. in Sociology, 1996

ACCREDITATION:

New Jersey Licensed Private Investigator, License #9209
Full Accreditation: Accreditation Commission for Traffic Accident Reconstructionists
(ACTAR #1444)

PROFESSIONAL SOCIETIES:

NJAAR New Jersey Association of Accident Reconstructionists
NATARI National Association of Traffic Accident Reconstructionists and
 Investigators
NAPARS National Association of Professional Reconstruction Specialists
New Jersey Police Traffic Officer's Association
Safe Kids Worldwide

EXPERIENCE:

Randolph Township Police Department, Randolph, NJ (1983 – 2014)

- Patrol Division – Sergeant (2011-2014)
- Traffic Safety/Support Services Supervisor (2009-2011)
- Deputy OEM Coordinator (2001 – 2014)
- Records Bureau Supervisor (2007 – 2009)
- Sergeant assigned to Patrol Division (2006-2007)
- Detective Bureau (2004 – 2006)
- Traffic Safety Bureau (1998 – 2004)
- Patrol Division (1983 – 1998)

TRAINING:

Rutgers University

- Work Zone Safety, Train the Trainer, (1997)
- Traffic Engineering for Police Officers (1998)
- Advanced Traffic Engineering for Police Officers (1999)

Northwestern Traffic Institute

- At Scene Accident Investigation (1994)
- Accident Investigation II (1995)
- Vehicle Dynamics (1995)



- Traffic Reconstruction (1997)
- Traffic Reconstruction II (1999)
- Master Traffic Analyst Program (2000)

Institute of Police Technology and Management

- Pedestrian/Bicycle Investigation (2002)
- Motorcycle Crash Investigation (2002)
- Inspection and Investigation of Commercial Motor Vehicle Crash Investigation (2002)
- Human Factors in Crash Reconstruction (2007)
- Computerized Collision Diagramming (2007)
- Special Problems in Collision Reconstruction (2007)

MISCELLANEOUS:

Facilitator – Child Passenger Safety Technician Course – Safe Kids Worldwide

Certified Technician Instructor since 1999

Team Instructor for the NJ DCF in Occupant Protection Training

Team Instructor for the Child Passenger Safety Restraint Systems on School Buses

National Instructor Training Course

Lead Investigator, Fatal Crash Unit – Randolph Township Police

Instructor, Kean University – NJ Highway Traffic Safety Crash Investigation Courses

Conduct numerous Traffic Safety programs

Bike Rodeos and Bicycle Safety

School Bus Safety

Walk-to-School Programs

Neighborhood Watch



SPECIALIZED ACCIDENT RECONSTRUCTION TRAINING
Garry W. Moore

1. NATARI – NAPARS – MdATAI – NJAAR - NYSTARS Combined Conference
Atlantic City, NJ October 1-3, 2003
Ocean City, MD October 6-8, 2004
Wilmington, DE October 5-7, 2005

2. Pennsylvania State Police (PSP) Reconstruction Seminars
2007 through 2012

3. 2007 Combined Conference/Investigating Eccentric Collisions
(NYSTARS – NJAAR – NAPARS – NATARI – MdATAI)
 - Occupant Kinematics in a Rotational Collision, Injury Patterns, Crash Data Retrieval (CDR) Up-dates, Eccentric Crash Testing.
Binghamton, NY October 24-26, 2007

4. 2008 Combined Conference (5 Hosting Organizations)
(NJAAR – NYSTARS – NAPARS – NATARI – MdATAI)
 - Issues in lateral pole collisions, commercial vehicle event data recorders, critical speed yaw special situations, alcohol/cannabis/stimulants/opiates and driving, airborne analysis, lateral pole crash testing and test data review.
Atlantic City, NJ October 15-17, 2008

5. 2009 Combined Conference (6 Hosting Organizations)
(NAPARS – NATARI – MdATAI – NJAAR - NYSTARS - PSFM)
 - Heavy vehicle crash reconstruction, commercial motor vehicle electronic data sources and data extraction techniques, analysis of Detroit Diesel (DDDL) reports and MCSAP Internet resources, Conservation of Linear Momentum restrictions regarding heavy vehicles versus passenger vehicle collisions, air brake adjustment and stopping ability of heavy trucks, combining aerial photograph and forensic mapping data, tractor-trailer crash testing.
Ocean City, MD October 7-9, 2009

6. 2010 Combined Conference (6 Hosting Organizations)
(MdATAI – NAPARS – NJAAR – NYSTARS – NATARI – PSFM)
 - “Trailer Underride Collision Reconstruction”
Side Underride Analysis, Commercial Vehicle Conspicuity System Requirements – Federal MCSAP Regulations, Investigation and Documenting Conspicuity in Side Underride Crashes, Principles of Headlights, Sudden Acceleration Incidents – A Mechanical Perspective, CDR Update Information, Truck Rollover Investigation and Reconstruction, Equivalent Barrier Speed – Kinetic Energy Equivalent Speed – Delta-v and The First Law of Thermodynamics, Reconstructing a Nighttime Crash, Low Light Forensic Photography – Documentation of Evidence at Night, Applications of Aerial and Satellite Imagery in Traffic Accident Reconstruction, Mapping and Diagramming.
Ocean City, MD October 6-8, 2010



7. 2011 Combined Conference (5 Hosting Organizations)
(MdATAI – NAPARS – NJAAR – NYSTARS – NATARI)
“Pedestrian and Bicycle Accident Investigations”
- The Anatomy and Analysis of a Typical Pedestrian or Bicycle Crash Event, presented by Mike Reade.
 - Pedestrian and Cyclist Impacts – A Look at Injuries and Impact Kinematics, presented by Tony Becker.
 - 360 Momentum: A Single Equation Approach, presented by Gregory Russell. Overall Throw Distance
 - Formulae on Low Friction Surfaces, presented by Greg A. Sullenberger.
 - The effects of vertical height differences between takeoff and touchdown, the roadway slope, and the vehicle/pedestrian weights, speed loss upon ground impact and pedestrian carry distance before airborne commences.
 - Pedestrian dummy crash testing performed by Tulsa University Crash Reconstruction Research Consortium. Data and results presented by Andy Rich.
- Harrisburg, PA October 5-7, 2011
8. 2012 Combined Conference (5 Hosting Organizations)
(MdATAI – NAPARS – NJAAR – NYSTARS – NATARI)
NYSTARS hosted the 2012 Joint Conference with a focus on “Motorcycle Collisions.”
- Testing was conducted for:
 - a.) Crash involving a 4 to 1 speed ratio of a motorcycle into the side of a moving car, under controlled parameters.
 - b.) Motorcycle broadside into stationary automobiles.
 - c.) Acceleration and deceleration testing of ATVs.
 - Motorcycle nomenclature, at scene evidence and bike evidence, presented by Al Baxter.
 - Establishing Driver-Rider designees, based on injuries sustained and at scene evidence, presented by Dennis Toaspern.
 - Review of crash test procedures and results conducted by IPTM, presented by Wade Bartlett.
 - Design parameters and operating characteristics of various motorcycle and automobile tires when utilized on motorcycles, presented by John Frackelton.
 - Human response to controlled automobile and motorcycle operation activities, presented by Jeff Muttart.
 - Physics of Rotational Mechanics and its implementation in the analysis of vehicular collisions, presented by Andrew Rich.
 - Review of crash testing results, presented by Jeremy Daily.
- Fishkill, NY October 16-19, 2012
9. 2013 Combined Conference (5 Hosting Organizations)
(NJAAR – NAPARS – MdATAI – NYSTARS – NATARI)
NJAAR hosted the 2013 Joint Conference on Collision Investigation and Reconstruction, with a focus on “Basic and Advanced Concepts Using Conservation of Linear Momentum”.
- Accident Reconstruction for Cases Involving Injuries, presented by Alan Cantor.
 - The Engineering of Human Injury Reconstruction, presented by Brian Benda.
 - Basics of Momentum/Secondary Slap Impacts within the “Collision Circle”; Conservation of Linear Momentum, presented by Wade Bartlett.

- Driving Under the Influence of Drugs and Alcohol, presented by Dr. John Brick.
 - Crash Avoidance Technology, presented by Mercedes Benz.
 - Effects of Tire Composition and Design on Performance, presented by Anthony Galuppo.
 - Coefficient of Friction; Tire/Surfaces, presented by Wade Bartlett
 - Advanced Momentum Concepts, presented by Andy Rich.
- Atlantic City, NJ October 9-11, 2013
10. 2013 Pennsylvania State Police Reconstruction Seminar (Penn State University, PA; September 24-26, 2013)
- Data from Nighttime Visibility Studies
 - Nighttime Pedestrian Visibility Studies
 - Major Scene Management
 - Motorcycle Modifications
 - Current Pedestrian Issues
 - CDR Update
 - Advanced Motorcycle Concepts
 - Why is Restitution Important
 - Advanced Momentum Concepts
11. 2014 Combined Conference (Hosted by NAPARS)
(Participating Organizations: NJAAR – MdATAI – NYSTARS – NATARI)
NAPARS hosted the 2014 Joint Conference on “Crash Damage Energy” and the use of crash damage and energy in reconstructing traffic crashes, from the early days of Crash3 to the present use of computer damage analysis.
- Crash Damage and Energy, presented by Ray & Brian McHenry.
 - Vehicle Stiffness Coefficients and issues in utilizing crush to determine speed, by Daniel W. Vomhof, III.
 - Utilizing Crush Damage, Delta-v & Momentum in accident reconstruction, by George H. Meinschein, P.E.
 - Digital Forensics of Heavy Vehicle ECMs (*Electronic Control Modules*), by Dr. Jeremy Daily.
 - Study on the utility of Small UAVs (*Unmanned Aerial Vehicles*) at vehicle crash scenes, by Drew Jurkofsky.
 - Memory Formation and Recall, by Dr. Shari R. Berkowitz.
 - Mobile Forensics – Recovery of Evidence from Mobile Devices, by Buddy Tidwell.
 - Full scale/full speed vehicle crash testing and analysis.
- Portland, Maine September 10-12, 2014
12. 2014 Pennsylvania State Police Reconstruction Seminar (Penn State University, PA; September 23-25, 2014)
- Spin Analysis
 - Data Sources from CMVs
 - UAVs/Aerial Photography
 - Nighttime Visibility Studies
 - CDR Updates
 - Tire Failures
 - Smart Phone Apps for Reconstruction
 - Video Analysis



13. 2015 Combined Conference (5 Hosting Organization)
(NJAAR – NAPARS – MdATAI – NYSTARS – NATARI)
MdATAI hosted the 2015 Joint Conference on “The Basics of Crash Reconstruction” and how to incorporate various components of scene and vehicle evidence into the analysis and evaluation of vehicle crash reconstruction, including emphasis on:
- Discovery: A discussion about evidence, search warrants and successful prosecution of cases, as presented by Maryland Assistant State’s Attorney Andrew Rappaport, Esq.
 - Crash Data Retrieval (**CDR**) Update: Review and interpretation of the latest information concerning the capabilities of CDR software Level 16.2, as presented by Rick Ruth.
 - Momentum & Angles: Center of Gravity (**CG**) location tracking via drones – Unmanned Aerial Vehicles (**UAV**) – and the utilization of this latest technology in live crash testing and analysis of these collision events, as presented by Greg Russell.
 - Sometimes the Obvious Isn’t: A case study on collision scene & vehicle evidence, while not initially deemed applicable or consistent, proved to be both upon closer examination and evaluation.
 - Expert Witness Testimony & CV Preparation: Insights from the legal side on construction of a CV and tips on presenting testimony at trial and depositions, as presented by Kathleen E. Smith, Esq.
- Ocean City, MD October 14-16, 2015

14. 2016 Combined Conference - WREX 2016 World Reconstruction Exposition – (Hosted by 21 crash associations from the United States, Canada and around the world)
(ASPACI – CA2RS – CATAIR – IAARS – IACAI – IATAI – APTM – ITAI – MATAI – MdATAI – NAPARS – NATARI – NJAAR – OTARA – PCARS – PSFM – SATAI – SCARS – SOAR – TAARS - WATAI)
WREX was the largest training event for crash investigators that has ever been held. This weeklong event included world class speakers, a full day of high speed crash testing, interactive field testing, along with classroom training in the breakout fields of:
- Using limited vehicle data to estimate time/distance/speed relationships.
 - Vehicle velocity extraction from witness video.
 - Investigation of emergency vehicle crashes.
 - Heavy vehicle speed analysis.
 - Motorcycle and speed estimation methods.
 - Speedometers and collision reconstruction.
 - Commercial vehicle air brake systems – air brake inspection and analysis.
 - Traffic signals and accident reconstruction.
 - Autonomous vehicle systems.
 - EDR data - SDM (sending diagnostic module) - Survivability.
 - Human factors in nighttime crashes.
 - Motorcycle collision reconstruction.
 - Pedestrian/bicyclist accident reconstruction.
 - Crash data retrieval update.
 - Distracted driving investigations.



- Digital forensics and heavy vehicle collision reconstruction.
- Rollover crashes.
- Tire failure analysis; tire factor performance and collision reconstruction.
- Human factors and the anatomical blind spot.
- The effect of alcohol and cannabis on driving.
- Air disc brakes; inspection & analysis.
- Heavy vehicle crash reconstruction.
- Event data recorder (EDR) anomalies & limitations.
- Video analysis of traffic collisions.

Orlando, Florida

May 2-6, 2016

15. BOSCH Crash Data Retrieval (CDR) Tool Technician Training - Institute of Police Technology and Management, University of North Florida.

- Collect EDR data using the Bosch© CDR Tool
- Troubleshoot data collection issues
- Prevent spoliation of EDR data
- Legal considerations

Online

January 9, 2018

16. Successfully completed Jerry 'Motorman' Palladino's Low Speed Motorcycle Skills Training Class, offered by Ride Like A Pro NJ, 2018, specifically including exercises in:

- 12' slow cone weave
- 24' circle
- Off-set cone weave
- U-turn exercise
- Iron cross intersection
- 24' figure eight
- Counter steering
- Threshold braking

Mountainside, NJ

April 29, 2018

