

**CURRICULUM VITAE**

**EDUCATION:**

Rutgers University, Newark, New Jersey  
BS, MA – Criminal Justice  
Bergen County Police Academy, Basic Police Training Course  
Northwestern University, Traffic Institute

- Accident Investigation I and II
- Vehicle Dynamics
- Traffic Accident Reconstruction

**CERTIFICATIONS:**

Fully Accredited Traffic Accident Reconstructionist – 1999  
Accreditation Commission for Traffic Accident Reconstruction – ACTAR #965  
Certified Traffic Radar Operator  
Certified Child Passenger Safety Technician, CPS #T6630

**EXPERIENCE:**

Experience as Police Officer 1986-2010  
Lieutenant with the Mahwah, New Jersey, Police Department (Ret.)  
Investigator, Bergen County Prosecutor's Office, Fatal Accident Investigation Unit, June 1999 - 2010  
Associate with John Desch Associates, Inc., a Traffic Accident Reconstruction and Engineering Firm, 1998 - Present

**PROFESSIONAL AFFILIATIONS:**

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|--------|---|
| NJAAR  | New Jersey Association of Accident Reconstructionists                         |
| NATARI | National Association of Traffic Accident Reconstructionists and Investigators |

**MISCELLANEOUS:**

Traffic Law Enforcement  
Commercial Vehicle Accidents  
Motorcycle Accidents  
Pedestrian Accidents

## **SPECIALIZED ACCIDENT RECONSTRUCTION TRAINING**

**Bruce J. Kuipers**

Institute of Police Technology and Management, University of North Florida

- Motorcycle Accident Investigation
- Applied Physics for Traffic Accident Investigators

New Jersey State Police, Technical Services Section

- Pedestrian Accident Investigation

NATARI – NAPARS – MATAI – NJAAR- NYSTARS Combined Conference

- Motorcycle Accident Reconstruction  
Waldorf, MD – September 30 – October 2, 1998
- Commercial Vehicle Reconstruction  
Allentown, Pennsylvania - October 6-8, 1999
- Investigating Bus and Train Collisions  
Albany, New York, – October 3-5, 2001
- Event Data Recorders/Crush Documentation and Analysis  
Ocean City, Maryland – September 11-13, 2002
- Crash Data Retrieval (CDR) Specialist, Collision Safety Institute, Inc.  
April 2003
- Pole Impact Testing and Analysis/New Car and Car Lighting Technology/  
Impact Factors Influencing Pattern of Injuries/ Biomechanics/ Digital  
Photography  
Atlantic City, New Jersey – October 1-3, 2003
- Rollover Crash Testing and Analysis/Electronic Crash Data Recorder  
Update/DNA in Accident Reconstruction  
Ocean City, Maryland – October 6-9, 2004

WREX 2000 Combined Conference (22 Hosting Organizations)

TAARS – NJAAR – NYSTARS – SOAR – NATARI – NAPARS – MATAI – IAARS – CATAIR – CAARS, etc.)

- Crash Protocol, Coefficient of Friction Testing, Tractor Trailer Air Brake Testing, Motorcycle to Barrier Crash Testing and Vehicle-to-Vehicle High Speed Crash Testing, Total Station Crush Dimensioning, Forensic Mapping, Lamp Examination, Vehicle Restitution, Alcohol Involvement, Trailer Underride Conspicuity and Human Factors, Driver's Detection and Response Process, Highway Liability.  
College Station, Texas, Texas A&M University – September 24-29, 2000.

2006 F<sup>3</sup>T<sup>2</sup> Combined Conference (12 Hosting Organizations)

(CATAIR – MATAI – PSFM – SEARS – IAARS – NAPARS – SCAARS – SOARS – NYSTARS – SATAI – WATAI, etc.)

- Crash Tests, Dynamic Deceleration Testing, Tire-Road Friction Related to Drag Sleds, Applicability of Crush Analysis Formulas, Nighttime Perception/Reaction Test, Highway Sightlines for Accident Reconstruction – Houston, TX- September 17-21, 2006.

2007 Combined Conference/Investigating Eccentric Collisions

(NYSTARS – NJAAR – NAPARS – NATARI – MATAI)

- Occupant Kinematics in a Rotational Collision, Injury Patterns, Crash Data Retrieval (CDR) Up-dates, Eccentric Crash Testing – Binghamton, New York – October 24-26, 2007

2008 Combined Conference (5 Hosting Organizations)

(NJAAR – NYSTARS – NAPARS – NATARI – MATAI)

- 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, New Jersey – October 15-17, 2008.

2009 Combined Conference (6 Hosting Organizations)

(NAPARS – NATARI – MATAI – 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, Maryland – October 7-9, 2009.

2010 Combined Conference (6 Hosting Organizations)

(MATAI – 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, Maryland – October 6-8, 2010.