



2300 Cline Avenue, Suite 204  
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fax (866) 820-1843  
[www.neese-assoc.com](http://www.neese-assoc.com)

## Stephan M. Neese Accident Reconstruction Specialist

**ACTAR Certified** since 1997, certification # 563- ACTAR is the national comprehensive program of accreditation and certification in Accident Reconstruction (*Accreditation Commission for Traffic Accident Reconstruction*)

**Attended the Traffic Institute at Northwestern University, Evanston, Illinois-** Successfully passed and completed all the crash investigation and reconstruction courses (1978-1990)

**Collision Analysis Consultant**, self-employed since 1986, incorporated 1992- President of Stephan M. Neese & Associates Accident Reconstruction, Inc

**Certified Data Retrieval Specialist** in downloading automobiles' event data recorder and analysis of data provided by the software to assist in the understanding of and analyzing a traffic collision

**Expert Testimony** given in more than seventy trials and one-hundred-fifty depositions- including Federal, Civil and Criminal Courts for civil plaintiffs and defendants, criminal prosecution and criminal defense

**Retired Police Officer**, twenty years continuous service with the Schererville Police Department, Schererville, Indiana, (1976-1996); with Accident Investigation specialty; Created and supervised the departmental accident reconstruction team and accident training

**As a Police Officer Investigated Over 1000 Collisions** since 1976 as primary investigator; minor property damage collisions, serious bodily injuries and fatality crashes; including pedestrian, automobile, commercial vehicle, motorcycle, bicycle and train collisions

**As a Police Officer Assisted in More Than 2500 Police Crash Investigations-** at scene and follow-up investigations as a first responder, supervisor and/or consultant

**Completed over 2200 Specialized Hours** of instruction in accident investigation, reconstruction procedures and scientific principles used in the reconstruction process including physics, mechanics, kinematics

## **Stephan M. Neese**

Accident Reconstruction Specialist (*cont.*)

**Mapped & Measured Hundreds of Crash Scenes-** road dimension, grade profiles, skid marks, gouges and other crash related evidence

**Inspected and Analyzed Thousands of Vehicles** and damage to determine impact configuration, vehicle defects, lamp illumination and specific crush measurements

**Photographed Hundreds of Crash Scenes and Vehicles** for collision analysis, scene preservation, photogrammetry and court proceedings

**Attended Indiana Law Enforcement Academy** (1976), Plainfield, Indiana- Completed and passed the Indiana Police Officer's Basic Training Course

**Certified Instructor** by State of Indiana Law Enforcement Training Board for Crash Investigation and Photography; developed and taught accident investigation curriculum for Northwest Indiana Law Enforcement Training Council

**Guest Speaker/Instructor** at Institute of Police Technology and Management Special Problems, Illinois Association of Technical Accident Investigators, Indiana Prosecutor's Conference, and the Indiana Association of Certified Accident Investigators

**Graduated** Griffith High School, Griffith, Indiana (1972); Math, Science and Business majors

**Developed and Operate the Highway Control Driving School**, a defensive driving program for local city and county courts and company fleet managers

**Principal Partner with The Visual Courtroom, LLC-** trial exhibits and 3-D computer animations for all types of litigation

### **Memberships**

Indiana Association of Certified Accident Investigators (since 1990)

Illinois Association of Technical Accident Investigators (since 1990, secretary 2002-2008)

International Network of Collision Reconstruction (since 2000)

Society of Automotive Engineers Affiliate Member (since 2002)

The Accreditation Commission for Traffic Accident Reconstruction

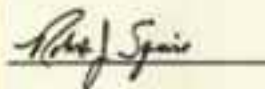
In recognition of demonstrated academic achievement, completion of accident specific training, applied experience in the field, and in view of the successful completion of the ACTAR Full Accreditation Written and Practical Examination, the ACTAR Governing Board of Directors hereby awards the level of

Full Accreditation as a  
Traffic Accident Reconstructionist

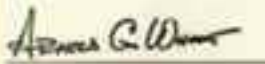
to

Stephan M Neese

Issued this 15th Day of September, 2010.



Robert J. Squire  
Chair, ACTAR



Arnold G. Wheat  
Secretary/Treasurer, ACTAR



Expiration date: September 15, 2015

Registration Number: 543

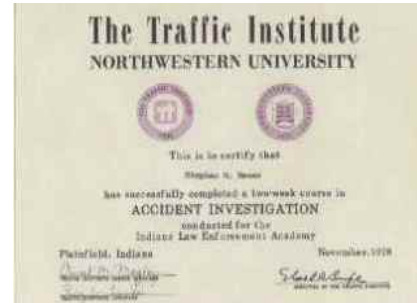
# Traffic Crash Schooling

## ACCIDENT INVESTIGATION

*The Traffic Institute, Northwestern University*  
Evanston, Illinois November 1978

### Course Topics Include:

- Analysis of Accident Data
- Events of an Accident
- Human Elements and Factors
- Mapping and Measuring
- Physical Facts From the Road
- Physical Facts From the Vehicle
- Speed Estimates From Road Markings
- The Investigation Process
- The Enforcement Process

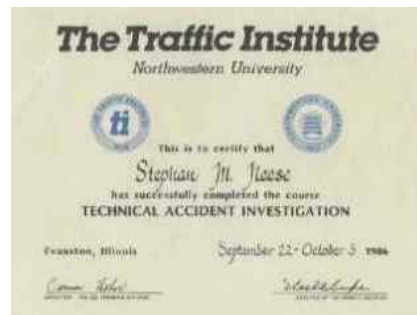


## TECHNICAL ACCIDENT INVESTIGATION

*The Traffic Institute, Northwestern University*  
Evanston, Illinois October 1986

### Course Topics Include:

- Accident Data Analysis
- Lamp Examination
- Legal Aspects of Technical Accident Investigation
- Mapping and Measuring
- Perspective Grid Mapping
- Qualitative Vehicle Dynamics
- Road Information
- Technical Preparation vs. At-Scene Investigation
- Tire Damage
- Vehicle Damage Evaluation



## VEHICLE DYNAMICS WORKSHOP

*The Traffic Institute, Northwestern University*  
Evanston, Illinois October 1986

### Course Topics Include:

- Articulated Vehicles
- Energy Applications
- Momentum Applications
- Vehicle Dynamics



# Traffic Crash Schooling

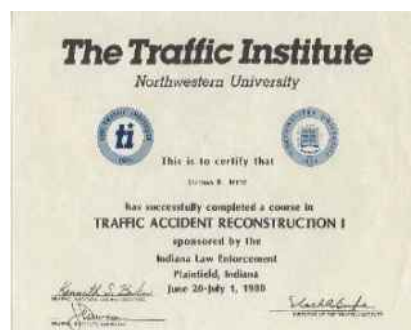
## **TRAFFIC ACCIDENT RECONSTRUCTION I**

*The Traffic Institute, Northwestern University*

*Evanston, Illinois*                      June                      1988

### **Course Topics Include:**

Articulated Vehicles  
Conservation of Momentum  
Driving Strategy and Tactics  
Mechanics  
Microcomputer Applications  
Reconstruction Process  
Vehicle Behavior in Collisions



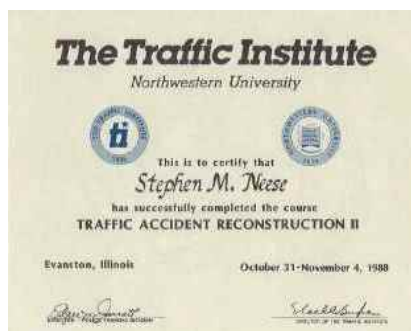
## **TRAFFIC ACCIDENT RECONSTRUCTION II**

*The Traffic Institute, Northwestern University*

*Evanston, Illinois*                      November                      1988

### **Course Topics Include:**

Conservation of Momentum  
Motorcycles  
Occupant Kinetics  
Pedestrian Accidents



## **MICRO-COMPUTER ASSISTED TRAFFIC ACCIDENT RECONSTRUCTION**

*The Traffic Institute, Northwestern University*

*Evanston, Illinois*                      September                      1990

### **Course Topics Include:**

Crush Profile Measurements  
Damage Classifications  
EDCRASH  
Photogrammetry  
Vehicle Fixed Coordinate Systems



# Traffic Crash Schooling

## ARAS 360 ADVANCED 3D COMPUTER DIAGRAMMING

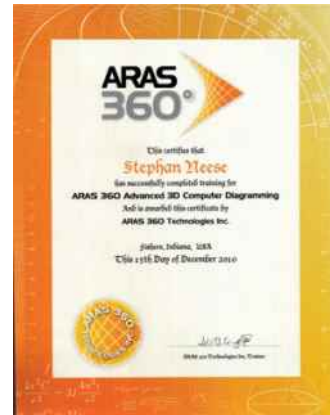
*Aras 360 Technologies, Inc.*

*Fishers, Indiana*

December 2010

### Course Topics Include:

- CAD Basics
- Downloading Total Station Mapping Data
- Animations
- Calculations Using ARAS 360



## ADVANCED PHYSICS & ANIMATION- REC-TEC & FORENSIC 3D SOFTWARE

*REC-TEC LLC*

*Jekyll Island, Georgia*

December 2007

### Course Topics Include:

- Physics Review
- Advanced Physics and Reconstruction
- REC-TEC Software Usage
- Animation Basics
- Use of Forensic 3-D Software with REC-TEC



## CRASH DATA RETRIEVAL (CDR) CERTIFICATION SYSTEM OPERATOR

*Collision Safety Institute,*

*Bloomington, Illinois*

September 2007

### Course Topics Includes:

- Event Data Technology
- CDR Terminology
- Airbag Deployments
- GM and Ford Downloading Procedures
- Certification Process



## PHOTOMODELER PRO5 COLLISION INVESTIGATION

*EOS Systems, Inc.*

*Raleigh, North Carolina,*

March 2005

### Course Topics Include:

- Photogrammetry Process
- PhotoModeler Pro 5 Software
- Camera Calibration
- Referencing Photographs
- Creating 3-D Models
- Scene and Evidence Photogrammetry
- Inverse Camera Process



# Traffic Crash Schooling

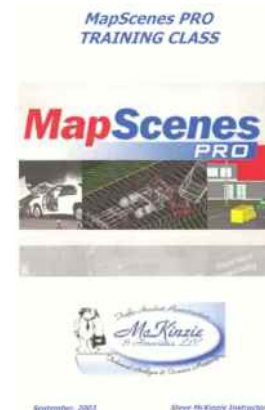
## MAPSCENES PRO

Mount Vernon, Illinois

September 2003

### Course Topics Include:

CAD Software Overview  
Getting Started in MapScenes Pro  
Field Exercise With Total Stations



## CRASH DATA RETRIEVAL (CDR) CERTIFICATION SYSTEM OPERATOR

Collision Safety Institute,  
Arlington Heights, Illinois

September 2002

### Course Topics Include:

Event Data Technology  
CDR Terminology  
Airbag Deployments  
GM Downloading Procedures  
Certification Process



## ANALYSIS OF LOW SPEED COLLISIONS

Texas A & M University Engineering Extension Service  
Houston, Texas

April 1997

### Course Topics Include:

Anatomy  
Biomechanics- Physical Parameters  
Damage & Delta V Applications  
Force, Momentum, PDOF, Energy  
Occupant Motion & Tolerances  
Vehicle Safety



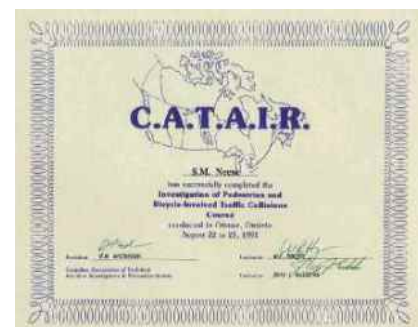
## PEDESTRIAN CRASH INVESTIGATION

Canadian Police College  
Ottawa, Ontario

August 1991

### Course Topics Include:

Bicycle Collision Analysis  
Car/ Bicycle Nomenclature  
Human Anatomy  
Pedestrian Collision Analysis  
Tire Marks



# Traffic Crash Schooling

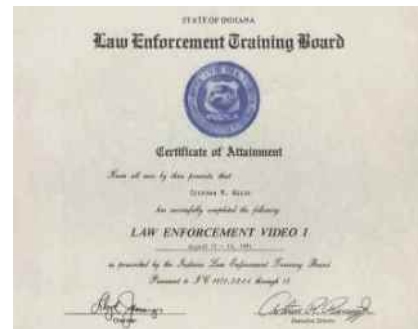
## LAW ENFORCEMENT VIDEO I

Indiana Law Enforcement Academy  
Plainfield, Indiana

August 1991

### Course Topics Include:

Basic Video Terminology  
Video Tape Mechanics  
Scene Video Tape Principles



## LAW ENFORCEMENT VIDEO II

Indiana Law Enforcement Academy  
Plainfield, Indiana

August 1991

### Course Topics Include:

Close-up Videography  
Lighting Techniques  
Video Tape Editing



## HEAVY VEHICLE CRASH INVESTIGATION

University of Indianapolis  
Indianapolis, Indiana

June 1989

### Course Topics Include:

Air Brakes  
Articulated Vehicles Investigation  
Federal Motor Carrier Regulations  
Vehicle Dynamics



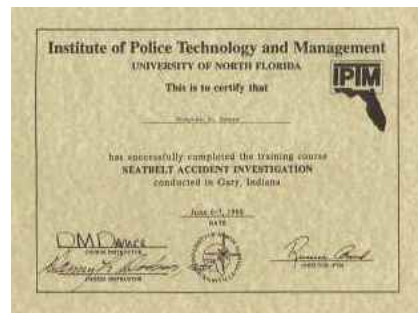
## SEATBELT ACCIDENT INVESTIGATION

Institute of Police Technology and Management  
Jacksonville, Florida

June 1988

### Course Topics Include:

Child Restraint and Seatbelt Injuries  
Frontal, Side, and Rear Impacts  
Restraint Hardware  
Rollovers  
Unrestrained Injuries  
Vehicle and Occupant Dynamics



# Traffic Crash Schooling

## VEHICLE CRASH PHOTOGRAPHY III

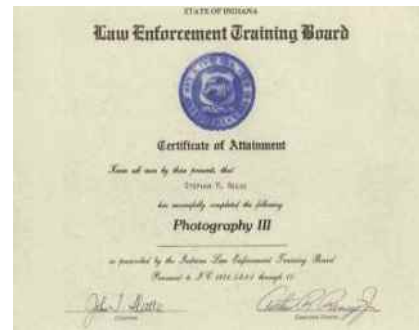
Indiana Law Enforcement Academy

Plainfield, Indiana

December 1981

### Course Topics Include:

Color Theory  
Crash Photography  
Lighting Techniques  
Process Controls



## EMERGENCY VEHICLE OPERATOR'S COURSE

United States Department of Interior

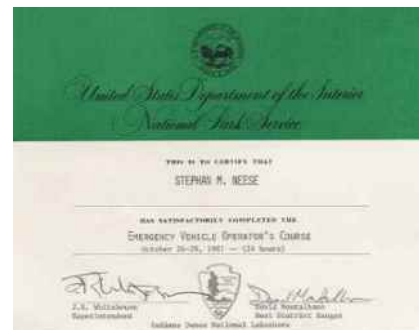
Lake/Suburban Safety Training Council

Gary, Indiana

October 1981

### Course Topics Include:

Controlled Braking  
Evasive Maneuvers  
Highway Response  
Vehicle Dynamics



## ADVANCED INTERVIEW TECHNIQUES

Lake/Suburban Public Safety Training Council

Gary, Indiana

October 1981

### Course Topics Include:

Critical Question Technique  
Human Behavior  
Verbal & Non-verbal Communications



## LAW ENFORCEMENT PHOTOGRAPHY II

Indiana Law Enforcement Academy

Plainfield, Indiana

June 1981

### Course Topics Include:

Macro Photography  
Nighttime Photography  
Scene Photography Technique



# Traffic Crash Schooling

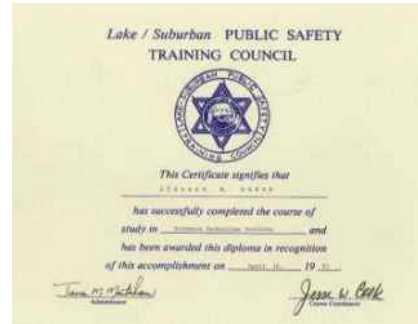
## EVIDENCE TECHNICIAN TRAINING

Lake/Suburban Public Safety Training Council  
Gary, Indiana

April 1981

### Course Topics Include:

Data Collection  
Diagraming Scene  
Scene Management



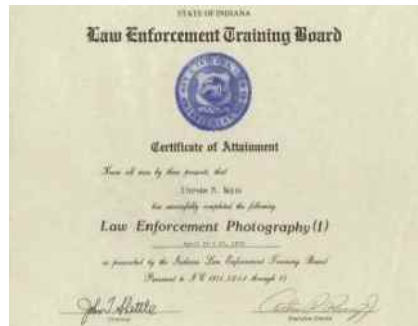
## LAW ENFORCEMENT PHOTOGRAPHY I

Indiana Law Enforcement Academy  
Plainfield, Indiana

April 1979

### Course Topics Include:

Basic Camera Mechanics  
Film Principles  
Photography Techniques



## TRAFFIC SUPERVISION

Indiana Law Enforcement Academy  
Plainfield, Indiana

December 1978

### Course Topics Include:

Human Behavior & Motivation  
Problem Analysis  
Supervisory Leadership  
Traffic Safety Program



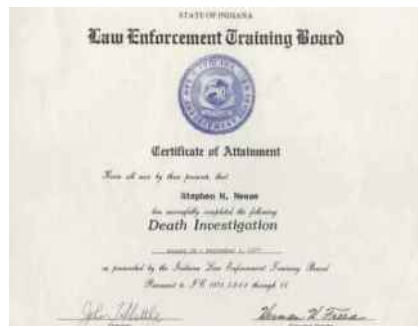
## DEATH INVESTIGATION

Indiana Law Enforcement Academy  
Plainfield, Indiana

August 1977

### Course Topics Include:

Alcohol/Drug Deaths  
Injury Patterns  
Role of Pathologist  
Scene Management  
Traffic Deaths  
Vehicle Safety



# Traffic Crash Schooling

## CHEMICAL TESTS FOR INTOXICATION

*Indiana University, School of Medicine*

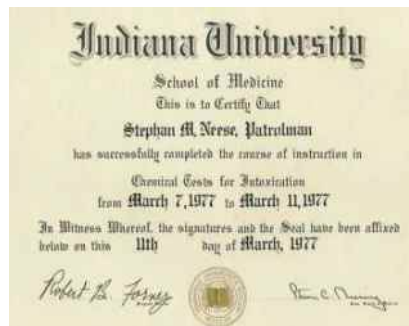
*Indianapolis, Indiana*

March

1977

### Course Topics Include:

- Blood Alcohol Calculations
- Breath Alcohol Methods
- Breathalyzer Theory & Operation
- Pharmacology & Toxicology
- Procedure
- Stages of Alcoholic Intoxication



## GRADUATE INDIANA LAW OFFICER BASIC COURSE

*Indiana Law Enforcement Academy*

*Plainfield, Indiana*

March

1977

### Course Topics Include:

- Basic Police Functions
- Basic Scene Investigation
- Crash Elements
- Mapping & Measuring
- Report Writing
- Vehicle Safety Overview



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Orlando, Florida*

April 2011

### **Seminar Topics Include:**

An Introduction to Energy Concepts in Reconstruction  
EDR Data in Reconstruction Real World Studies  
Basics Physics for Crash Reconstruction  
Bicycle Crash Investigation  
CDR-Crash Data Collection Guide for GM Airbag Unit  
Introduction to Microsoft Excel for Reconstruction  
NASCAR Safety Innovations  
Police Fleet & Vehicle Crash Concerns  
Portable GPS Usage in Reconstruction  
Safe Following Distances Nighttime Commercial Vehicles  
Simulation 101  
Tires, Tire Forces and Stability  
Traffic Signal Timing Essentials  
Event Data Recorders- What's New  
Working with Crush and Momentum- Motorcycle-car



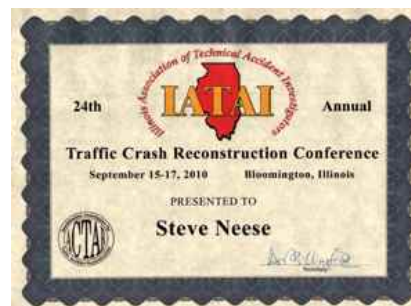
## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Bloomington, Illinois*

September 2010

### **Seminar Topics Include:**

Crash and Restitution  
Drag Sled Testing  
EBS, KEES and Delta-V  
ECM Field Guide  
Excel for Reconstruction  
Pedestrian and Cycles Crashes  
Tires, Forces and Stability  
Trailer Crash Analysis



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Orlando, Florida*

April 2010

### **Seminar Topics Include:**

Commercial Motor Vehicle Drive Train Analysis  
Advanced Pedestrian/Bicycle Crash Investigation  
Research Stiffness/Calculate Stiffness Values  
Planning and Bullet Proofing Your Reconstruction  
Validation of On-going Drag Sled Studies  
Case Preparation and Courtroom Presentation  
History & Application of EDCRASH in Reconstruction  
Digital Photography for Traffic Crash Investigators  
Occupant Kinematics  
Instrumentation and Testing for Crash Reconstruction



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Orlando, Florida*

April 2010



## Crash Data Retrieval Update 2010

## Heavy Truck Electronic Control Module (ECM)



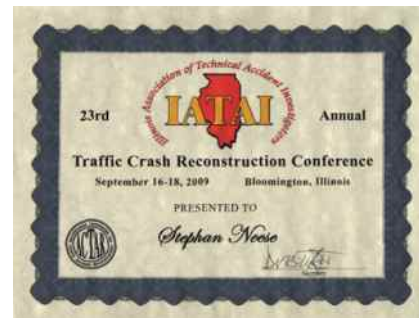
## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Bloomington, Illinois*

September 2009

### Seminar Topics Include:

- Momentum Considerations
- Rollover, Occupant Kinematics and Ejection Issues
- Digital Photography/Video in Crash Investigation
- C.V. Stability and Bendix ESP Systems
- Pedestrian Crash- Issues of Concern
- Airborne Trajectory Analysis
- The Dramatic Impact of Courtroom Visual Aids
- From Call-out to Court
- Crash Tests
- Crash Test Review



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Orlando, Florida*

April 2009

### Seminar Topics Include:

- Validation for the Use of Drag Sled for Friction
- Application of Throw Distance
- Damage Profile Analysis
- Using Microsoft Excel in Graphing ACM/PCM Data
- Commercial Motor Vehicle Foundation Brakes
- Hybrid Vehicles- Challenge for Investigators
- Modern Technology for Measuring Friction
- Using Simulation to Reconstruct and Visualize Crashes
- Single Image Planar Rectification and Photogrammetry
- Drag Sled Protocol
- CDR Release 3.1
- Airborne Trajectories and Analysis
- Lamp Analysis
- Motorcycle Lateral Acceleration and Lean Angles
- REC-TEC Update
- Crash Tests



# Crash Seminars

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Bloomington, Illinois*

September 2008

### Seminar Topics Include:

Determining Occupant Seating Positions  
Vehicle Rollover Dynamics  
A Comparison of ABS Braking Systems  
Preparing For Trial  
Reconstruction hardware  
Energy Analysis Workshop  
Crash Testing and Analysis  
Trucks-Second Division vehicles  
Danger of Hybrid Vehicles  
CDR Retrieval Updates  
Human Factors  
Spin Analysis



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Bloomington, Illinois*

September 2007

### Seminar Topics Include:

Fraudulent Crash Reporting  
Truck Technology  
m-SMAC  
Crash Measuring Protocol  
Crash Scene Documentation  
Eye Witness Testimony  
Investigating truck Crashes  
Scan Tool and CDR  
CDR Retrieval Updates  
Pedestrian vaults  
Reconstruction Formulas  
Modeling ABS Brake Forces  
Airbag Control Modules



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*  
*Jacksonville, Florida*

April 2007

### Seminar Topics Include:

Digital Photography for the Crash Investigator  
Interviewing Techniques  
Spin Analysis  
Forensic Animation  
Tire Failure  
From Scene to Courtroom  
Traffic Homicide and DUI  
NHTSA Crash Investigation Program Overview  
360-degree Momentum and GM Module  
Drag Coefficients in Yaws and Skids  
Balancing Forces in Crush  
Case Preparation and Courtroom Testimony  
Pedestrian and Bicycle Reconstruction  
Crash Tests



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Bloomington, Illinois*

September 2006

### Seminar Topics Include:

ABS Braking Systems  
Accelerometers  
Airbag Control Modules  
Animations & Simulations  
Commercial Brake New Technology  
Crash Data Retrieval  
Forensic Evidence  
Pedestrian Vaults  
Reconstruction Formulas



## CDR USER'S CONFERENCE

*Collision Safety Institute/ Accident Reconstruction Network*  
*Dallas, Texas*

February 2006

### Seminar Topics Include:

Vetronix New Cables and Coverage  
Practical Aspects of CDR in Crash Investigation  
Implementing CDR Policy  
CDR Data and Human Factor Issues  
Various Types of ACM modules and Data Recorded  
Motorcycle Collision Involving Vehicles with CDR  
CDR Validation and Legal Proceedings  
Analysis of CDR Data in 360 Linear Momentum Collisions  
CDR Data Comparison to Flight Data Recorders  
Durability of ACMs  
Quantifying Uncertainties in CDR Data  
Accuracy of Speeds Recorded by SDM  
GM Modules Overview  
Practical Applications of CDR Usage



# Crash Seminars

## **ADVANCED PHYSICS USING MICROCOMPUTERS**

**REC-TEC** *Orlando, Florida* January 2006

### **Seminar Topics Include:**

360-degree Momentum  
Delta-V From Damage  
Pedestrian Vaults  
Basic Photogrammetry



## **ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE**

*Springfield, Illinois* September 2005

### **Seminar Topics Include:**

Crash Data Retrieval  
Heavy Truck ECM's  
Pedestrian Crash Reconstruction  
Pedestrian Statistical Surveys  
Pedestrian Crash Tests

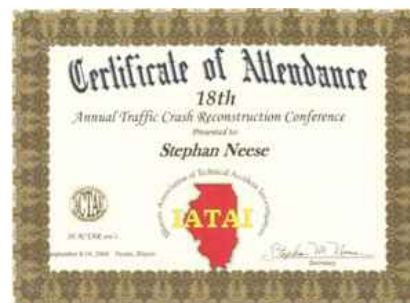
## **ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT**

## **INVESTIGATORS CONFERENCE**

*Peoria, Illinois* September 2004

### **Seminar Topics Include:**

B.A.C. Evidence  
Crash Tests  
The Forensic Pathologist  
Injuries in the ER  
Roll-over Crash Investigations  
Roll-over Dynamics



## **SOUTHEASTERN COLLISION RECONSTRUCTION CONFERENCE**

*Biloxi, Mississippi* July 2004

### **Seminar Topics Include:**

Accident Reconstruction Review  
Using Excel in Reconstruction



## **ACCELERATION AND VERICOM FAMILIARIZATION**

*Vericom Computers*  
*Arlington Heights, Illinois* November 2003

### **Seminar Topics Include:**

Road and Friction Values  
Accelerometers  
Vericom Field Testing



# Crash Seminars

## ADVANCED PHYSICS USING MICROCOMPUTERS

### REC-TEC

*New Orleans, Louisiana*

September 2003

#### Seminar Topics Include:

AASHTO Sight Triangle  
Air Brake Chambers  
Off-Tracking  
Weight Shift  
Quadratic Solver  
The Problems With Turns  
Train Crash Investigation  
SMAC & CRASH III



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS

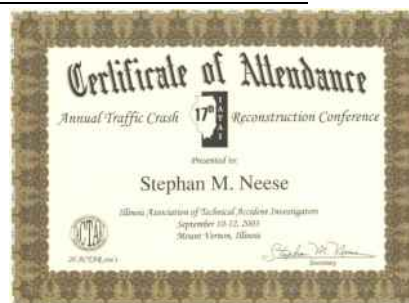
### CONFERENCE

*Mount Vernon, Illinois*

September 2003

#### Seminar Topics Include:

Crash Tests  
Forensic Mapping  
Motion & Airborne Applications



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS

### CONFERENCE

*Aurora, Illinois*

September 2002

#### Seminar Topics Include:

Crash Tests  
Evidence Collection  
Breakaway Fracture  
Perception & Response  
Pole & Tree Impacts



## ADVANCED PHYSICS USING MICROCOMPUTERS

### REC-TEC

*Cocoa Beach, Florida*

August 2002

#### Seminar Topics Include:

Time & Distance  
Critical Turn-away  
Crush  
Momentum  
Conservation of Energy  
Photogrammetry



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*  
*Jacksonville, Florida*

April 2002

### Seminar Topics Include:

Case Law Updates  
Commercial Vehicle ABS  
Commercial Vehicle Rollover Data  
Drag Sleds Study  
Energy Methods in Collisions  
Error Analysis in Reconstruction  
Human Factors  
Motorcycle Momentum  
Motorcycle Crashes  
Pole Impacts  
Rotational Mechanics  
Trains  
Truck Instrumentation



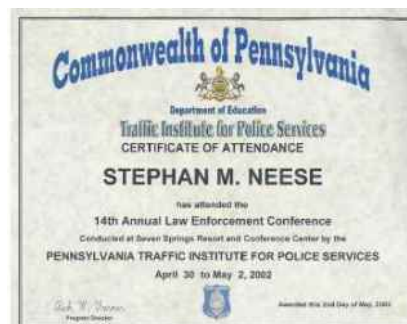
## TIPS ANNUAL CONFERENCE 2002

*Traffic Institute for Police Services*  
*Champion, Pennsylvania*

April 2002

### Seminar Topics Include:

Advanced Occupant Protection Systems  
Event Data Recorders  
Driver Visibility and Response Time  
Commercial Vehicle Brake/Engine Reconstruction  
Pedestrian Accident Reconstruction Update  
Computer Animation  
Rotational Mechanics in Collision Reconstruction  
Crash Analysis



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Danville, Illinois*

September 2001

### Seminar Topics Include:

Barrier Crash Tests  
Crash Tests  
Eyewitness Reliability  
Grade Crossing Trains  
Human Factors- Perception  
Pedestrian Crash Reconstruction  
Traffic Signal Basics  
Vehicle Forensics



# Crash Seminars

## ADVANCED PHYSICS USING MICROCOMPUTERS

### REC-TEC

*Cocoa Beach, Florida*

June

2001

#### Seminar Topics Include:

Time & Distance  
Critical Turn-away  
Crush  
Momentum  
Conservation of Energy  
Photogrammetry



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS

### CONFERENCE

*Peoria, Illinois*

September 2000

#### Seminar Topics Include:

Air Bags  
Crash Event Recorders  
Crash Photography  
Crash Tests  
Injury Patterns  
Witness Statements



## WREX 2000

*College Station, Texas*

September 2000

#### Seminar Topics Include:

Alcohol Involvement  
Basics of Crush  
Crash Data Recorders  
Crash Tests  
Critical Speed  
Estimating Uncertainty  
Event Recorders  
Factors in Detection and Response  
Forensic Mapping  
Hands on Testing  
Highway Liability  
Laser Measuring  
Photogrammetry  
Role of Weather Expert  
Traffic Signal Timing  
Trailer Underride  
Vehicle Considerations Investigator  
Vehicle Restitution



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

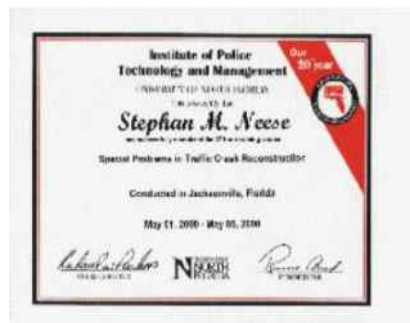
Jacksonville, Florida

May

2000

### Seminar Topics Include:

Accuracy & Precision Reconstruction  
Blood Stain Patterns  
Co-Axial Impact Theory  
Collection of Crash Evidence  
Commercial Vehicle Crash Update  
Crash Worthiness Safety  
Data Recorders  
Forensic Lighting  
Forensic Meteorology  
Head-on Collision Speed Calculation  
Heavy Truck Rollovers  
Impaired Driving Collisions  
Measure/Computer Diagraming  
Momentum and Physics  
Pedestrian Injury Patterns  
Photography  
Pitfalls in Reconstruction Testimony



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

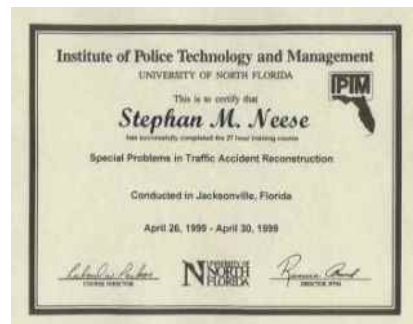
Jacksonville, Florida

April

1999

### Seminar Topics Include:

Accelerometers  
Blood Evidence & Reconstruction  
Car Tires  
Damage Analysis  
DNA and Trace Evidence  
Energy Methods Applications  
Inspection of Car Seats  
Low Speed Collisions  
Momentum Applications  
Pedestrian/Bicycle Investigation  
Railroad Accident Investigation  
Sport Utility Vehicles  
Trailer Brakes  
Trial Preparation



# Crash Seminars

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Springfield, Illinois*

September 1998

### Seminar Topics Include:

Articulated Vehicles  
Crash Tests  
Federal Trucking Regulations  
Night Time Visibility



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

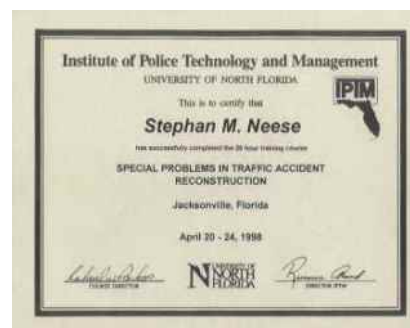
*Institute of Police Technology and Management*

*Jacksonville, Florida*

April 1998

### Seminar Topics Include:

Commercial Vehicle Investigation  
Crash Diagraming  
Dauber & Forensic Animation  
In-Car Video  
Linear Momentum  
Math and Physics  
Occupant Protection Systems  
Occupant Seating Positions  
Occupant Kinematics  
Reconstructionalist-Expert  
Trailer Swing-Out



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Arlington Heights, Illinois*

September 1997

### Seminar Topics Include:

Barrier Equivalent Velocity  
Collection of Forensic Evidence  
Coordinate Method Vector Analysis  
Crash Tests  
Forensic Mapping  
Mathematical Methods  
Momentum Revisited  
Simultaneous Equations  
Rear-end Collisions



# Crash Seminars

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Collinsville, Illinois*

September 1996

### Seminar Topics Include:

Aerodynamics  
Civil & Criminal Law  
Crash Tests  
Low Speed Collisions  
Measuring Techniques- Laser  
Pedestrian Crash  
Photography Technology



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

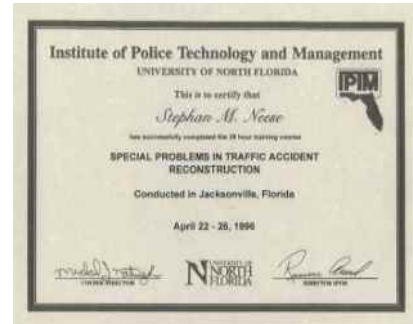
*Institute of Police Technology and Management*

*Jacksonville, Florida*

April 1996

### Seminar Topics Include:

Acceleration & Deceleration  
Computer Analysis Projections  
DUI Prosecutions  
Effects of Aerodynamics  
Human Factors- Perception/Reaction  
Hydroplaning  
Low Speed Impact Analysis  
Pedestrians  
Police Product Liability  
Tire Retread Technology  
Underground Rail Accidents  
Vehicle Mechanical Analysis



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Jacksonville, Florida*

April 1995

### Seminar Topics Include:

Animation & Simulation  
Bus Accident Reconstruction  
Commercial Vehicle Analysis  
Demonstrative Evidence  
Friction & Tire Forces  
Headlight Pattern Analysis  
Motorcycle Reconstruction  
Night Visibility  
Occupant Kinematics  
Physical Evidence vs. Eye Witness  
Tire Forensics  
Vector Analysis



# Crash Seminars

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Collinsville, Illinois*

August 1994

### Seminar Topics Include:

3-D Video Animation  
Crash tests  
Forensic Lab Analysis  
Friction & Energy Speed Computations  
Photography  
Reports  
Trailer Underride  
Vehicle Damage Inspection  
Vehicle Dynamics



## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

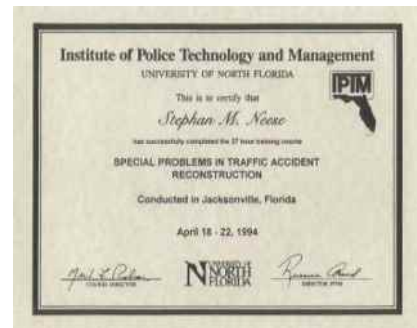
*Institute of Police Technology and Management*

*Jacksonville, Florida*

April 1994

### Seminar Topics Include:

Aerial Crash Photography  
Airbag Technology  
AutoStats  
Body Works Computer Program  
Commercial Vehicle Paper Trail  
Radial Tires  
Restraint Systems  
Total Station  
Truck Rollovers  
Truck Brake Failure  
Underride Accidents  
Windows Software



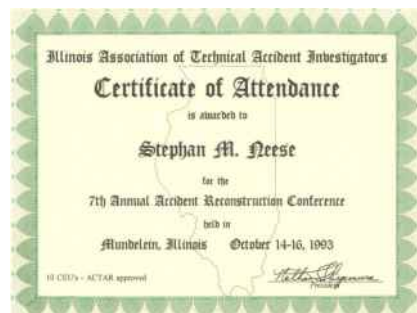
## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Mundelein, Illinois*

October 1993

### Seminar Topics Include:

Crash Tests  
Friction and Energy Methods  
Mathematical and Vector Analysis



# Crash Seminars

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

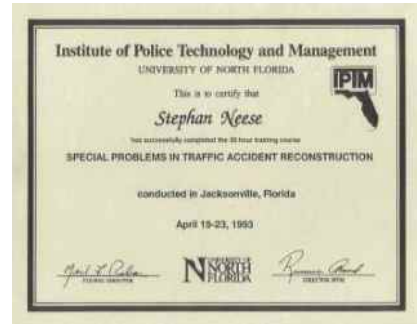
*Institute of Police Technology and Management*

Jacksonville, Florida

April 1993

### Seminar Topics Include:

Accident Fraud  
Airborne Accidents  
Analyzing Nighttime Accidents  
Computer Programs  
Computerized Accident Drawing  
Deceleration/ Accelerometers  
Friction & Energy  
Lamps  
Mechanical Vehicle Inspection  
Occupant, Pedestrian Injuries  
Rollovers  
Truck-trailer Jack-knifing



## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Illinois State University*

October 1992



## MIDWEST ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS

*West Des Moines, Iowa*

May

1992

### Seminar Topics Include:

NTSB- Federal Motor Carrier Laws  
Railroad Crossing Crash investigation  
Occupant Restraints  
Vehicle Dynamics

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS CONFERENCE

*Illinois State University*

October

1991

### Seminar Topics Include:

Articulated Vehicles  
Bumper Standards  
Crash Tests  
Heavy Truck Deceleration Rates  
Low Speed Impacts  
The Expert's Role



# Crash Seminars

## INDIANA ASSOCIATION OF CERTIFIED ACCIDENT INVESTIGATORS

*Indianapolis, Indiana*

June 1991

### Seminar Topics Include:

Anti-Locking Braking Systems

## ILLINOIS ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS

### CONFERENCE

*Illinois State University*

October 1990

### Seminar Topics Include:

Anti-Locking Brake Systems

Articulated Vehicles

Basic Speed Formula

Crash Tests

Critical Speed Yaw Analysis

Injury Pattern

Pedestrian Investigations



## INDIANA ASSOCIATION OF CERTIFIED ACCIDENT INVESTIGATORS

*Indianapolis, Indiana*

June 1990

### Seminar Topics Include:

Mapping & Measuring

## SPECIAL PROBLEMS IN TRAFFIC ACCIDENT RECONSTRUCTION

*Institute of Police Technology and Management*

*Jacksonville, Florida*

April 1990

### Seminar Topics Include:

Hazardous Materials

Injury Patterns

Legal Issues

Motorcycle Dynamics

Motorcycle Stopping

Photogrammetry

Photography

Railroad Crossings

Tire & Pavement Frictions

Trailer Stability

Video Animation

Weight Shift



# Statement of Policy

*My goal is to provide you with a thorough and accurate account of how the accident happened. I will make every effort to find the evidence that will support your case. I realize that when you hire me, you are primarily interested in the results that best support you and/or your client's version. However, if the evidence does not support this view, I will rely on the evidence for my conclusion. It is my practice to provide you with all the information that supports your case, as well as any that may be detrimental.*

*Stephen M. Neenan*