

# Event Data Recorder Use in Traffic Crash Reconstruction– Level II (40 Hour)

## COURSE DETAILS:

This course build upon IPTM’s Event Data Recorder (EDR) Use in Traffic Crash Reconstruction-Level I by teaching you how to apply mathematical concepts to your EDR-based reconstructions.

We will begin by reviewing the math and physics concepts necessary to analyze EDR data in more complex non-central collisions. Topics such as the Law of Cosines; the Law of Sines; the concept of area under the curve; vector arithmetic; momentum; closing velocity; change in velocity relationships; and the First Law of Thermodynamics (aka the Conservation of Energy) will be discussed in detail. You will learn how each of these can be used in your reconstruction.

Actual EDR reports from a variety of collisions will be utilized to show you how to determine all the values necessary for a complete reconstruction. Projects and problem sets have been designed to reinforce the materials presented during lectures and will provide you with the tools you will need to complete actual reconstructions.

## TOPICS:

- Solving momentum problems with EDR data when some data elements, such as departure speeds, departure speeds, departure angles, etc. are missing (aka “triangle momentum”)
- How restitution affects your momentum-based reconstruction
- The effects of rotation on delta-V and closing speed (Effective Mass Ratio)
- The effects of external forces on momentum-reconstructions
- Using new Part 563 data elements
- Handling less common EDR anomalies

Questions? Contact: Susan Shigemura  
(217) 546-8535  
sushig@speednet.com

**Classroom space is limited,  
register now to save your seat.**

## About IATAI

Visit [www.iatai.org](http://www.iatai.org) for the following:

- **Renew your membership**
- **Become a member of IATAI**
- **Learn more about upcoming IATAI sponsored events**

Interested in becoming a member? IATAI membership is \$45.00 annually. Please visit our website to complete the online application and payment.

## CLASS PRICE:

**Member fee: \$595.00  
(2018 dues paid)**

**Non-member fee: \$695.00**

## IATAI TRAINING DATES

Oct. 2-3, 2017	Crash to Courtroom Springfield, IL
Oct. 3, 2017	Using Delta V from EDR Data in Crash Analysis Springfield, IL
Oct. 4-6, 2017	IATAI Conference Crowne Plaza Springfield, IL
May 21-24, 2018	Optics, Lighting and Visibility for the Forensic Investigator

**IATAI SPONSORED CLASS**

# Event Data Recorder Use in Traffic Crash Reconstruction- Level II

**FROM:**

Institute of Police Technology  
and Management



Where: Illinois State Police, D.5  
16648 South Broadway  
Lockport, IL 60441

When: March 5-9, 2018



ILLINOIS ASSOCIATION of  
TECHNICAL ACCIDENT  
INVESTIGATORS

7610 Roberts Road  
New Berlin, IL 62670

Forwarding and Address Correction Requested

## REGISTRATION FORM

NAME: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

AGENCY/COMPANY: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

WORK PHONE: \_\_\_\_\_ CELL PHONE: \_\_\_\_\_

ARE YOU A MEMBER OF IATAI (2018 dues pd)?: \_\_\_\_\_

**DETACH AND RETURN THIS FORM WITH PAYMENT TO:**

IATAI  
7610 ROBERTS RD.  
NEW BERLIN, IL 62670

MAKE CHECKS PAYABLE TO **IATAI**.  
TUITION FEE: IATAI MEMBER: \$595.00

NON-MEMBER: \$695.00