

# Occupant Kinematics for the Traffic Crash Reconstructionist (40 Hours)

This course will teach you how to recognize and interpret traffic crash evidence as it relates to occupant seating positions. We will show you how to determine the occupant movement from the crash damage and the subsequent injuries that resulted.

We will illustrate the basics of occupant movement and teach you how to ascertain the direction of movement during a collision. You will learn how to determine occupant seating positions and safety belt usage and we will examine the significance of airbag and other restraint deployments.

We'll show you how to read the medical records that can be obtained with a warrant as well as autopsy report of the injuries sustained by the vehicle's occupants so you can understand how they relate to the investigation. When correlated with the vehicle damage, these reports can provide further evidence of occupant positions and movement.

Actual crashes can be used as case studies to allow you to put the theories into practice. This course is designed for traffic crash investigators who have a good working knowledge of the techniques and applications of formulas taught in basic crash investigation courses.

## Topics Include:

- Calculation of PDOF
- Occupant movement
- Types of injury-contact and non-contact
- Injury forces
- Vehicle interior examination
- Injury terminology
- Occupant protection systems
- Reading medical and autopsy records
- Calculation of delta V

## Prerequisite:

You must have completed, at a minimum, IPTM's Traffic Crash Reconstruction course or its equivalent.

## Class Price

IATAI Member: \$595.00  
(2017 dues paid)

Non-IATAI Member: \$825.00

## 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

The Illinois Association of Technical Accident Investigators is pleased to be able to offer this and other classes at significant discounts to its members.

Interested in becoming a member? Register online at our website, [www.iatai.org](http://www.iatai.org). IATAI membership is \$45.00 annually.

## IATAI Training

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
March 5-9, 2018	EDR Use in TCR Level II Lockport, IL
May 21-24, 2018	Optics, Lighting and Visibility for the Forensic Investigator

All class brochures online at  
[www.iatai.org](http://www.iatai.org)

## Questions?

Contact: Susan Shigemura  
[sushig@speednet.com](mailto:sushig@speednet.com)

**IATAI SPONSORED CLASS**

# Occupant Kinematics for the Traffic Crash Reconstructionist

From  
Institute of Police Technology  
and Management  
(IPTM)



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

**When:** December 4-8, 2017  
8:00 a.m. to 5:00 p.m.



ILLINOIS ASSOCIATION of  
TECHNICAL ACCIDENT  
INVESTIGATORS  
7610 Roberts Road  
New Berlin, IL 62670  
Forwarding and Address Correction Requested

## REGISTRATION FORM

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

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

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

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ARE YOU A MEMBER OF IATAI (2017 dues paid)?: \_\_\_\_\_

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

IATAI  
7610 ROBERTS RD.  
NEW BERLIN, IL 62670

TUITION FEE: \$595 Member      \$825 Non-Member

MAKE CHECKS PAYABLE TO IATAI.