



The IPTM...

# SPOTLIGHT

...an electronic newsletter.

Across the nation & around the world...IPTM is the leader in law enforcement training!

## Bob Jacob Receives International Highway Safety Award

In this edition:

Bob Jacob  
Receives J.  
Stannard Baker  
Award..... 1

Upcoming  
Events..... 2

Forensic  
Scene  
Mapping..... 3

New Courses  
Debut in  
2009..... 4

2009  
Special Problems  
in Traffic Crash  
Reconstruction

For more information,  
[click here.](#)

IPTM is proud to announce that our Director, L. R. "Bob" Jacob, received the prestigious J. Stannard Baker Award recognizing his lifetime achievement in the field of traffic safety. Jacob was recognized for his 35 years of work as an innovator and a leader in highway safety during a ceremony on November 11, 2008 at the annual conference of the International Association of Chiefs of Police in San Diego, California.

"I am deeply honored to have had the opportunity to work on so many programs and with so many dedicated professionals over the years," said Jacob. "This award really means a lot to me."

The prestigious J. Stannard Baker Award annually recognizes individual lifetime contributions to highway safety. Law enforcement officers of state, county or municipal agencies as well as private and public sector representatives are selected for their sustained, continuous, career-spanning and innovative contributions to highway safety.

The award recipients are selected by the Highway Safety Committee of the



Bob Jacob accepts the prestigious J. Stannard Baker award on November 11, 2008 during the annual International Association of Chiefs of Police conference in San Diego, California.

International Association of Chiefs of Police (IACP) and is presented in collaboration with the National Highway Traffic Safety Administration and Northwestern University's Center for Public Policy.

Jacob's work in traffic safety began in 1973, when he became a trooper and later an academy instructor with the Virginia State Police. There he had an opportunity to use some of the earliest versions of traffic enforcement equipment at a time when the skyrocketing number of highway deaths was gaining national attention.

In 1984, he moved to Jacksonville and became an instructor at IPTM and, over the next 20 years, trained thousands of law enforcement officers from across the United States and several foreign countries in a variety of traffic safety topics. Jacob was later appointed director of IPTM in 2005, remaining heavily involved in highway safety programs/training and makes it a priority to mentor today's young professionals into the traffic safety leaders of tomorrow.

The award honors the late J. Stannard Baker who made significant contributions to highway safety as the director of Research and Development at the Northwestern University Traffic Institute—now the Center for Public Safety—for more than 30 years. Known as the "father of accident investigation", Baker focused on the causes of traffic crashes and helped develop modern techniques of collision investigation and reconstruction.

To learn about all of the 2008 award recipients, [click here.](#)



# Upcoming Events

27th annual

## Special Problems in Traffic Crash Reconstruction

**New Location:  
Orlando,  
Florida!**

**April 20 - 24, 2009  
Orlando, Florida**

### Additional Conferences

IPTM will also conduct the following conferences in 2009. We are still putting the final details together, so we encourage you to check our website in the next few months as more information becomes available.

#### *Symposium on Alcohol and Drug Impaired Driving Enforcement*

**June 9 - 11, 2009  
St. Pete Beach, Florida**

For more information, [click here.](#)

#### *Tactical Response Conference*

**October 27 - 29, 2009  
Jacksonville, Florida**

For more information, [click here.](#)

Join IPTM for our week-long conference featuring reconstruction experts from around the world!

#### **Dr. John Searle, Guest Speaker** *The Application of the Throw Distance Formulae*

Don't miss this unique opportunity to hear Dr. Searle discuss the conditions he has established for calculating speeds based on the overall throw distance of pedestrians and bicyclists struck by vehicles. He will address the common friction values used in his formulas as well as the analysis of the crash victim's trajectory.

#### *Validation for the Use of the Drag Sled in Determining a Reasonable Range for the Coefficient of Friction in Traffic Crash Reconstruction* **Dr. Frank Navin**

A new set of experiments with a "solid tire vehicle" has demonstrated a direct relationship between a drag sled and a car treated as a drag sled. These new results are being used by the RCMP to refine their drag sled calibration procedures.



For Florida Law Enforcement Officers, a limited number of tuition grants have been made available by the Florida Department of Transportation to attend IPTM's *Special Problems in Traffic Crash Reconstruction*.

#### **Revised Format:**

You will have the opportunity to attend two of our 4-hour "mini-courses" which combine lectures and hands-on exercises. You will receive a certificate for each session you attend. Tentative "mini-course" topics include:

- Commercial Motor Vehicle Foundation Brakes
- Damage Profile Analysis
- Using Microsoft Excel in Graphing Ford ACM and PCM Data
- Hybrid Vehicles: The New Challenges in Crash Investigation

#### **Staged Collisions:**

Crash tests with construction zone Jersey barriers will focus on determining energy analysis on the barrier and vehicle with full frontal, end barrier and angled collisions.



#### **Session Topics:**

- CDR Release 3.1
- Validation for the Use of the Drag Sled in Determining a Reasonable Range of the Coefficient of Friction in Traffic Crash Reconstruction
- Protocol and Procedures for Drag Sled Users
- Single-Image Planar Rectification and Multi-Image Close-Range Photogrammetry in Crash Reconstruction
- Airborne Trajectories and Analysis
- Motorcycle Lateral Acceleration and Lean Angles
- Using Simulation to Reconstruct and Visualize Motor Vehicle Crashes
- Modern Technology for Measuring Coefficient of Friction and Vehicle Dynamics
- REC-TEC Update

**Complete topic descriptions can be found on our website at [iptm.org](http://iptm.org) or by [clicking here.](#)**

## Featured Course:

### Forsenic Scene Mapping Using Lasers

Investigators around the country are increasingly taking advantage of technology to quickly and efficiently measure both collision and crime scenes. Many law enforcement agencies have

found additional uses for their Laser speed measuring devices (such as Laser Technology Incorporated and Laser Atlanta), by utilizing them to measure and record scene

measurements that will permit the creation of a computer aided diagram for crash and crime scene reconstruction and courtroom presentation. Still others have purchased laser measuring systems which are dedicated solely to this function (such as Nikon, Sokkia, Leica, and Topcon). No matter which type of laser scene measuring system is used, IPTM's *Forensic Scene Mapping Using Lasers* course can train you to thoroughly map and measure a scene.

During the course, we will give you an overview of laser measuring

and provide you with a basic understanding of coordinate geometry and measuring. In addition, the proper methods of measuring evidence, identification of

laser mapping limitations, and the use of additional measuring methods to integrate with laser mapping are discussed. Prior to the "hands-on" portion of the class, operator ergonomics, and proper reflector techniques are also reviewed to minimize potential safety

problems during the mapping process. The majority of class time, however, is devoted to the practical application of scene mapping.

No prior experience is necessary with mapping equipment, as this course starts with the basic components of the equipment and the proper

setup in the best location for the particular scene. You will learn the importance of leveling the instrument, the use of reference points, and the use of a data collector to store the data collected at the scene. Accuracy Confirmation Shots are an integral part of the training, which are used to verify the accuracy of the instrument's measurements nine different ways in all three dimensions.

An introduction to data collection programs will help you learn about the software that will be used while collecting scene data. Once the data has been collected, you will be shown how to import it into a computer. This data will then be used to rendering an accurate scale diagram suitable for reconstruction and presentation

for a hearing or trial. An introduction to the more common computer aided diagramming programs is provided to help

you utilize all of the tools available in your software.

Hundreds of crash investigators, crime scene investigators, and private reconstructionists have successfully completed the *Forensic Scene Mapping Using Lasers* course, which has been offered in Jacksonville as well as various locations throughout the country.



This unit, sold by Laser Technology, Inc. (LTI) also doubles as a speed measurement device.



A substantial amount of class time is devoted to practical applications using scene mapping devices.



This Sokkia Total Station device is dedicated solely to measuring a scene.

#### Upcoming Dates and Locations:

##### Panama City, Florida:

June 1 - 5, 2009

[Click here to register now for this course.](#)

# New Courses for 2009

At IPTM, we are continuing to update our course offerings in order to stay on the cutting edge of law enforcement training. Listed below are new courses you will see debuting in 2009.

## ***Crisis Negotiation for Corrections***

April 6 – 10, 2009; Jacksonville, Florida

Designed especially for crisis negotiators working in a correctional environment, the emphasis of this course is on the negotiation techniques appropriate for mitigating the unique challenges presented by inmates. You will learn the different phases of the negotiation process, from the introduction to the surrender, and specific strategies and techniques for handling a variety of crisis situations including hostage takers, barricaded subjects, and potential suicide victims.



## ***Crisis Negotiation: Managing the Suicidal Crisis***

April 20 – 22, 2009; Jacksonville, Florida

July 13 – 15, 2009; Jacksonville, Florida

December 9 – 11, 2009; Jacksonville, Florida

This one of a kind course is designed specifically for experienced crisis negotiators and will teach you how to handle and manage incidents involving suicidal threats, gestures, and behaviors. You will learn a variety of approaches, strategies and techniques that you can use to preserve the life of a person threatening intentional self-destructive behavior and control the escalation of the situation.

***For more information or to register for these, or any other IPTM course, please [click here.](#)***

## ***Negotiating with Special Populations***

October 19 – 21, 2009; Jacksonville, Florida

In this advanced course, designed specifically for experienced negotiators, you will learn specific negotiation strategies for dealing with terrorists, the elderly, combat veterans, fellow officers, inmates and troubled youth. You will learn why the Rescue Dynamic, underestimating the threat or putting the wrong person on the phone, can have a negative impact. We will also explore the unique challenges of negotiating with military or law enforcement members in crisis.



## ***Recruiting and Retaining Dispatchers***

August 11 – 12, 2009; Jacksonville, Florida

This course addresses the problem of attracting and retaining dispatchers in telecommunication centers. You will learn effective recruitment and retention strategies that have been successfully applied across the country in uniform patrol and will be shown how these methods can be brought into the communications center. The challenges of funding, hiring and training new dispatchers will be discussed and methods of employee motivation and recognition will be identified.

## ***Adobe Photoshop for Law Enforcement***

March 16 – 20, 2009; Jacksonville, Florida

This specialized hands-on course will teach you how to use the image enhancement tools available in Adobe Photoshop while we explain the do's and don'ts of the software. We will show you the best methods for enhancements so that your work will stand up to courtroom challenges. You will also learn how to archive and database all of your agency's digital photos and create standard operating procedures for a proper chain of custody. Project work centers upon hands-on use of the software.

## ***Fingerprint Classification and Comparison***

August 24 – 28, 2009; Jacksonville, Florida

Numerous hands-on exercises during this course will teach you how to identify fingerprint pattern types and classify ten print fingerprint cards using different classification systems. You will learn about the three different groups of friction ridge patterns along with the characteristics of each group and its subdivisions. We will also discuss the three systems of fingerprint classification and the process for classifying prints under each.