

THE INDIANA FORENSIC INSTITUTE

2010 COURSE CATALOG **January through June**

Point of Contact:
Jennifer Dickinson
9855 Crosspoint Boulevard, Suite 126
Indianapolis, IN 46256
(317) 842-6075 x101 Phone
(800) 783-9653 Toll-Free
(317) 842-6974 Fax
Email: jdickinson@wolftechnical.com

STUDENT CENTERED TRAINING

The Indiana Forensic Institute IFI has developed courses on the basis of surveys and end-of-course evaluations to meet law enforcement needs and to keep up with technology development. IFI courses are designed to train individuals based on published guidelines such as those from the FBI's Scientific Working Group on Imaging Technology (SWGIT). Instructors are chosen for their ability to instruct as well as their experience in law enforcement and their specific disciplines.

COURSE CREDIT

All IFI courses carry Continuing Education Units (CEU's) and Training Hour credits, certified by the Indiana Law Enforcement Training Board and application is in progress for CLE credits for several of the courses that will be of interest to attorneys. Students receive hands-on training using the Institute's top-of-the-line equipment and software, as well as using their own equipment in many IFI courses. Specially designed courses can be offered at your location or agency.

REGISTRATION INFORMATION

Enrollment:

Space is limited. Registration deadline is 7 days prior to the start of each class and enrollment is guaranteed when you have registered. If space is not available you will be notified. To receive early registration fees, forms must be received 30 days prior to the start of the class.

Change or Cancellation of Classes:

If we must cancel or postpone a class, you will be notified. Please provide telephone numbers and/or emails so we can contact you.

Refunds:

All class fees will be refunded if you notify us at least 4 business days prior to the first class meeting. Contact us at (317) 842-6075 x101 or (800) 783-9653. You may leave a message 24 hours a day. For cancellations with less than 4 business days advance notice there will be a \$25 cancellation fee.

Ways to Register/Pay Enrollment Fees:

Registration is done through the website <http://2010ifitc.theregistrationsystem.com>. All course fees are preferred, but not required, prior to start of class. An invoice can be sent to your department and/or a department PO can be used.

•**By Mail:** Make your check or money order payable to The Institute for Forensic Imaging and mail to:

The Indiana Forensic Institute
9855 Crosspoint Blvd, Suite 126
Indianapolis, IN 46256

•**By Purchase Order:** Include your departmental purchase order number or request billing on your departmental letterhead with an authorizing signature with the specific amount and mail or fax to IFI.

•**On-Line:** Credit cards will be accepted on the registration website:

<http://2010ifitc.theregistrationsystem.com>

Location:

Courses will be held at the Indiana Forensic Institute, located at 9855 Crosspoint Blvd, Suite 126, Indianapolis, IN 46256. ([Google Map](#))

Hotel Accommodations:

If you need hotel recommendations, please call (317) 842-6075 x101 or (800) 783-9653. Also available on our website at www.ifi-indy.org.

Equipment:

Students are encouraged to bring personal or departmental equipment to use in conjunction with IFI's equipment in order to fulfill IFI's goal of providing students with training useable on the job with already owned equipment. IFI has some limited loaner equipment that can be used if the student cannot provide.

IFI COURSE LISTING FOR SPRING 2010

INDEX

	Registration Information	
1. Moyer, T.	Media and Public Relations	January 25-26
2. Leerkamp and Leitch	Testimony and Legal Matters	February 1-2
3. Blitzer and Sobek	How to Testify at Depositions and Trials	February 3-4
4. Whitman	Introduction to Radiation for Emergency Personnel	February 22-23
5. Leerkamp	Working with an Expert	February 24-25
6. Maher	Demonstrative Evidence	March 1-2
7. Blitzer	Forensic Digital Imaging, Phase III	March 22-24
8. Gruenke	Forensic Digital Imaging, Phase I	April 12-15
9. Vanderkolk	Introduction to Analysis of Patterns in Evidence	April 19-20
10. Blitzer	Digital Imaging for Managers	April 26-27
11. Devers	Preparing Images for Courtroom Presentation	April 28-29
12. Blitzer	Crime Scene Digital Photography Still and Video	May 3-7
13. Moyer, C.	Domestic Violence	May 10-11
14. Ammerman	Collection and Analysis of Trace Evidence	May 12-13
15. Dold	Investigation of Fire Incidents, Phase I	May 17-18
16. Goodpaster	Investigation of Explosion Incidents	May 19-20
17. Moyer, C.	Basic Criminal Investigations	May 26-28
18. Gruenke	Basic Video Capture, Enhancement and Analysis	June 1-3
19. To Be Determined	Major Accident Scene Investigation	June 7-9
20. Gruenke	Forensic Digital Imaging, Phase II	June 14-17
21. Tuceryan	Calibration and Validation of Laboratory Equipment	June 21-22
22. Bono	Forensic Science in the Courtroom	June 23-24
23. Dold	Investigation of Fire Incidents, Phase II	June 28-29

[Additional Information](#)

Media and Public Relations

January 25 – 26, 2010

Traci Moyer

This course, by instruction, discussion, and practical training exercises provides officers, firefighters or civilian staff with strategies and tactics on how to work effectively with the media. Participants will learn how to interact with the media with confidence and in stressful situations.

TOPICS INCLUDE:

- ▶ What is the journalist's job?
- ▶ What is "news"?
- ▶ Freedom of Information laws
- ▶ HIPAA laws
- ▶ Interviews gone wrong
- ▶ The importance of body language
- ▶ How to deal with hostile reporters
- ▶ Never say "no comment"
- ▶ Dealing with closed-ended or slanted questions
- ▶ The pitfalls of going "off the record"
- ▶ Secrets to interacting with the media
- ▶ How to get your messages out
- ▶ Avoiding technical jargon
- ▶ Using the media to solve cases

Ms. Moyer is a reporter for a local newspaper and has worked for several large newspapers during her career. She is also an experienced public relations representative.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Testimony and Legal Matters

February 1 – 2, 2010

Sonia Leerkamp and Amy Leitch

This course, by lecture and discussion, provides an overview of the rules and responsibilities of proffering testimony in depositions, trials and other legal forums. Presenters of testimony should know both the requirements of the law and the typical strategies lawyers might use as they prepare for trial.

TOPICS INCLUDE:

- ▶ Who is an “expert”?
- ▶ Direct and indirect testimony
- ▶ Admissibility vs. Weight
- ▶ What to expect in various forums
- ▶ Laws regarding testimony
- ▶ Biography and credentials
- ▶ Typical opposing counsel actions
- ▶ What an expert can say that a lay witness cannot
- ▶ Impartiality and the appearance thereof
- ▶ Types of legal forums: deposition, trial, hearing, etc.
- ▶ What to reveal at each type of forum
- ▶ Laws regarding displays and physical items
- ▶ Literature citation
- ▶ Practice in key areas of providing testimony

Both instructors are experienced prosecutors.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

How to Testify at Depositions and Trials

February 3 – 4, 2010

Herbert Blitzer, Instructor

Jim Sobek, Guest Lecturer

This course, by lecture and discussion and practice, provides an overview of what the “expert” witness should provide in legal forums. Attention will be given to the most effective ways to present technical material to a lay audience. If students have a recent case that they can bring, they should. If not, sample cases will be provided. These will be presented and their strengths and weaknesses reviewed.

TOPICS INCLUDE:

- ▶ How to teach a lay audience
- ▶ Emotional and rational responses
- ▶ “Practice makes perfect”
- ▶ The Goldilocks solution
- ▶ Plaintiff or Prosecutor positions
- ▶ Demonstrations, facsimiles and real items
- ▶ Engaging the audience
- ▶ Making sure your technology is working
- ▶ Who else participated in preparation of materials
- ▶ Presenting credentials

Mr. Blitzer is a published author in the field of forensic science and Mr. Sobek has years of experience giving testimony.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Introduction to Radiation for Emergency Personnel

February 22 – 23, 2010

Richard Whitman

This course, by lecture and practical demonstration, provides an orientation and awareness of the different kinds of radiation that Police Officers, Firefighters and Forensics Personnel may come across or experience during accidents or incidents. The class focus will be on how each modality is commonly used and how each is used in forensics work. Special emphasis will be made on gathering evidence, the unique hazards of each and protection techniques for First Responders and/or Forensic Personnel.

TOPICS INCLUDE:

- ▶ Introduction to Radiation
- ▶ Medical uses of radioisotopes
- ▶ X-rays for Medical
- ▶ Lasers, uses and characteristics
- ▶ Legalities and Radiation
- ▶ Trends in Security Radiation Use
- ▶ Authorities involved in radiation control in the United States
- ▶ Contamination events, e.g., a medical incident or an Improvised Nuclear Device
- ▶ Radioactive Materials: Characteristics of radioisotopes
- ▶ Industrial uses of radioisotopes
- ▶ X-rays for security applications
- ▶ Radiofrequency, i.e., Microwave, UHF, VHF
- ▶ Radiation Incident Scenario (Tabletop Exercise)
- ▶ Radiation Measurements

Mr. Whitman has decades of experience in the field of radiation as applied to public safety.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Working with an Expert

February 24 – 25, 2010

Sonia Leerkamp

This course, by lecture, demonstration and practical exercises, provides an orientation and awareness of the different kinds of issues a lawyer must address to develop a successful expert witness as well as what the expert should expect and ask for as the relationship develops. There will be examples of demonstrative evidence, discussion of how it should be used, and the probable reactions from opposing counsel. There is also the issue of the opposing counsel's expert, and how that individual should be cross examined.

TOPICS INCLUDE:

- ▶ How to find suitable experts
- ▶ Sharing the theory of the case
- ▶ Finder of fact expectations
- ▶ How to prepare defense for hearings
- ▶ Choosing the right expert
- ▶ Review of the available evidence
- ▶ How to prepare offense for hearings
- ▶ What, exactly, should the testimony cover

Ms. Leerkamp is a four-term prosecutor in Hamilton County, Indiana.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Demonstrative Evidence

March 1 – 2, 2010

Timothy Maher

This course, by lecture and demonstration, provides an orientation and awareness of the different kinds of demonstrative evidence in common use. Preparation and presentation methods are discussed. Examples will include video, animations, simulations, photographs, and 3-D models. In-class exercises will be included. The importance of a coordinated and integrated litigation team will be discussed.

TOPICS INCLUDE:

- ▶ Why demonstrative evidence works
- ▶ Developing your own demonstrative evidence
- ▶ Choosing a demonstrative evidence type
- ▶ Developing a demonstrative evidence strategy
- ▶ Working with demonstrative evidence developers
- ▶ Evidentiary, testifying and admissibility issues
- ▶ Expert witnesses and demonstrative evidence

The course will include the textbook, Demonstrative Evidence for Complex Litigation, by Timothy Maher, Lawyers and Judges Publishing Co.

Mr. Maher has created demonstrative evidence for many trials.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Forensic Digital Imaging, Phase III

March 22 – 24, 2010

Herbert Blitzer

This course, by conference, demonstration and practical “hands-on” training is designed for people who have training and experience in capturing and processing digital images. In keeping with the recent report on forensics from the National Academy of Science, key aspects of the science behind the functions and equipment will be discussed. Students will be able to explain processes to a jury and to answer questions on why certain tools were used and how they work. While this is not a course in mathematics, students will use basic formulae to compute findings using spread sheets that are provided. New equipment/techniques will be discussed.

TOPICS INCLUDE:

- ▶ Measurements and scales used in photography
- ▶ Color sensitivity and factors controlling camera or scanner response
- ▶ Basic filters and how they work
- ▶ Interpolation tools and how they work
- ▶ New equipment and techniques
- ▶ Lenses, lens formulas, and how to set up special assignments
- ▶ Factors controlling resolution and how to set up to achieve a target resolution
- ▶ Calculations the camera makes or you make when processing an image in raw format

PREREQUISITE: Forensic Digital Imaging, Phase I & II or equivalent experience.

The textbook, Understanding Forensic Digital Imaging, by Blitzer, Stein-Ferguson and Huang is included.

Mr. Blitzer is a published author in the field of forensic science and a member of several national committees in the field.

Credit: 24 hours

Cost: \$390

[Index](#)

[Top](#)

Forensic Digital Imaging, Phase I

April 12 – 15, 2010

Rudy Gruenke

This course, by conference, demonstration and practical “hands-on” training, teaches the basics of Adobe Photoshop, the use of digital cameras, scanners, computers and digital imaging methods to produce quality images for law enforcement professionals. The selection and use of equipment for efficient imaging as well as the handling of digital images in accordance with established SWGIT guidelines will be stressed.

TOPICS INCLUDE:

- ▶ System Diagnostics
- ▶ Image enhancement methods
- ▶ Digital cameras
- ▶ Archiving images
- ▶ Special filters for enhancing images
- ▶ Standard Operating Procedures
- ▶ Adobe Photoshop
- ▶ History logs
- ▶ Downloading images
- ▶ Film and flatbed scanners
- ▶ Digital darkrooms
- ▶ Digital Printers

RECOMMENDED EQUIPMENT: Digital camera kit (but not required).

PREREQUISITE: A basic understanding of photography and computers.

The course fee includes a copy of Forensic Digital Imaging and Photography, a textbook by Blitzer & Jacobia and published by Elsevier/Academic Press.

Mr. Gruenke has decades of experience in forensic imaging as part of a major police agency.

Credit: 32 hours

Cost: \$520

[Index](#)

[Top](#)

Introduction to Analysis of Patterns in Evidence

April 19 - 20, 2010

John Vanderkolk

This course, by lecture, conference, and demonstration, teaches the basics of analysis of patterned evidence. Examples include: fingerprints, shoe impressions, tire tracks, nose prints, blood spatter, and tool marks. Attention is paid to the ACE-V method to support unbiased analysis. The selection and use of equipment for efficient imaging as well as the handling of digital images in accordance with established standards will be stressed.

TOPICS INCLUDE:

- ▶ ACE-V methodology
- ▶ Image enhancement methods
- ▶ Digital cameras
- ▶ Enhancements vs. Manipulations
- ▶ Special filters for enhancing images
- ▶ References
- ▶ Typical marks of interest in various fields
- ▶ Keeping history and operational notes
- ▶ Archiving images
- ▶ Film and flatbed scanners
- ▶ Standard Operating Procedures

Mr. Vanderkolk has decades of experience in forensic pattern analysis as part of a major police agency.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Digital Imaging for Managers

April 26 - 27, 2010

Herbert Blitzer

This course, by conference, demonstration and practical “hands-on” training, teaches individuals how to set up an image workflow for managing digital files and write the standard operating procedure necessary when working with digital images. Managing the digital workflow and files created through the use of digital cameras has become a tremendous task. Ensuring they are not compromised is an absolute necessity. As with many other law enforcement operations, the way to achieve benefits without undue exposure to law related questions is through the development and implementation of effective SOP’s. This segment will review all areas of concern, describe the process for developing SOP’s and provide references for agencies interested in developing SOP’s.

TOPICS INCLUDE:

- ▶ Establishing a workflow
- ▶ Expected costs
- ▶ Training requirements
- ▶ Archive images
- ▶ Legal challenges
- ▶ Scientific Working Group on Imaging Technology (SWGIT) standards.
- ▶ Equipment requirements
- ▶ Expected savings
- ▶ Protecting images
- ▶ Types of images
- ▶ Constructing an SOP

Mr. Blitzer is a published author in the field of forensic science and a current of former member of several national committees in the field, including SWGIT.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Preparing Images for Courtroom Presentation

April 28 –29, 2010

John Devers

This course, by conference, demonstration and practical “hands-on” training teaches how to prepare exhibits using both hard copies and an electronic presentation. What to include in the presentation and how best to present it will be included. The course covers the expert witness presenting their visuals in court as well as from the prosecutor’s point-of-view, such as opening and closing arguments. A slide presentation program is taught which can be used for an electronic presentation in court and for preparing hard-copy visuals.

TOPICS INCLUDE:

- ▶ Presentation Software
- ▶ Presentation Techniques
- ▶ What to include in the presentation
- ▶ How to present presentations
- ▶ How to prepare hard-copy presentations
- ▶ How to prepare an electronic presentation
- ▶ Creating and presenting a courtroom presentation

PREREQUISITE: A good working knowledge of computers.

Mr. Devers has extensive experience in the preparation of materials for presentation in legal forums.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Crime Scene Digital Photography (*Still and Video*)

May 3 – 7, 2010

Herbert L. Blitzer

This course teaches law enforcement officers how to document a crime scene with high-quality photographs and video. Students will learn the basics of photography and use digital and video cameras to document mock crime scenes. Lectures, discussions, and practical exercises help students put specific techniques into practice.

Topics Include:

- ▶ Basic Photography
- ▶ Lenses/Filters
- ▶ Flash Photography
- ▶ Close-up Photography
- ▶ Digital Photography
- ▶ Video Cameras
- ▶ Crime Scene Photography
- ▶ Protocols for documenting crime scenes
- ▶ Camera Controls
- ▶ Exposure Controls
- ▶ Lighting Techniques
- ▶ Intro to digital imaging
- ▶ Downloading Images
- ▶ Video Camera Controls
- ▶ Crime Scene Videography
- ▶ SWGIT guidelines

RECOMMENDED EQUIPMENT: Digital and Video cameras, tripod, macro lens, cable release, 3-foot extension cable for flash and spare batteries. A limited number of loaner still and video cameras are available.

PREREQUISITE: A basic understanding of photography is useful.

Mr. Blitzer is a published author in the field of forensic science and a current or former member of several national committees in the field, including SWGIT.

Credit: 40 hours

Cost: \$650

[Index](#)

[Top](#)

Domestic Violence

May 10 – 11, 2010

Charles Moyer

This course will provide students with an in-depth working knowledge of domestic violence cases. Through discussion, video and class participation, students will learn to recognize signs of domestic violence and the roles of first responders to such situations.

TOPICS INCLUDE:

- ▶ Understanding the dynamics of domestic violence
- ▶ Officer safety
- ▶ Officer liability
- ▶ Effective evidence gathering
- ▶ Interview techniques
- ▶ Male and female perpetrators
- ▶ Children
- ▶ Stalking laws
- ▶ Orders of protection
- ▶ Myths
- ▶ Domestic violence advocates
- ▶ Dealing with repeat offenders

Mr. Moyer has more than 25 years in law enforcement and more than a decade of criminal investigation experience. Mr. Moyer is also a corporate investigator for a Fortune 500 company.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Collection and Analysis of Trace Evidence

May 12 - 13, 2010

Gina Ammerman

This course, by lecture, conference, and demonstration teaches how to collect and analyze trace evidence. Attention will be given to the types of microscopes in common use the various illumination techniques. There will be discussion of various analytical techniques along with visuals to show the effects.

TOPICS INCLUDE:

- ▶ Preliminary scene assessment
- ▶ Different types of microscopes
- ▶ Special illumination techniques
- ▶ Depth of field issues
- ▶ Locating and collecting trace materials
- ▶ Sample illumination techniques
- ▶ Image beam filters and adjustments

Ms. Ammerman is an expert in microscopy and analysis of trace evidence.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Investigation of Fire Incidents, Phase I

May 17 –18, 2010

Jay Dold, C.F.E.I.

This course, by lecture, conference, and demonstration teaches the basics of how to investigate a scene where a fire has occurred. Attention is given to typical indicators of causes and sources of fire, problems recording the scene and collecting materials for laboratory analysis. This course is intended for people relatively new to the field.

TOPICS INCLUDE:

- ▶ Preliminary scene assessment
- ▶ What materials to collect for the lab
- ▶ How to prepare presentations
- ▶ Photo documentation
- ▶ Measuring the scene
- ▶ SWGIT guidelines

Mr. Dold, a certified fire and explosion investigator, has a number of years of experience as a fire investigator, both for a major agency and as an independent practitioner.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Investigation of Explosion Incidents

May 19 –20, 2010

John Goodpaster

This course, by lecture, conference, and demonstration teaches how to investigate scenes where explosions have occurred. Attention is given to typical indicators of causes and sources of explosions, problems recording the scene and collecting materials for laboratory analysis.

TOPICS INCLUDE:

- ▶ Preliminary scene assessment
- ▶ Photo documentation
- ▶ What materials to collect for the lab
- ▶ Measuring the scene
- ▶ How to prepare presentations

Mr. Goodpaster is an expert in analyses of explosions and the materials collected from scenes.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Basic Criminal Investigations

May 26-28, 2010

Charles Moyer

Criminal investigations are one of the most challenging aspects for first responders. This course, by lecture and discussion will provide an overview of criminal investigations and a platform for both novice and experienced professionals to enhance their investigation skills.

TOPICS INCLUDE:

- ▶ How to manage a crime scene
- ▶ Crime scene documentation
- ▶ Collection of DNA
- ▶ Finger print analysis
- ▶ Case management
- ▶ Evidence preparation
- ▶ Search and seizure methods and approaches
- ▶ Miranda issues
- ▶ Interviewing witnesses
- ▶ Using informants and other sources
- ▶ Sex crimes
- ▶ General investigation techniques for property crimes
- ▶ Assault and death investigation techniques
- ▶ White collar crime and narcotics

Mr. Moyer has more than 25 years in law enforcement and more than a decade of criminal investigation experience. Mr. Moyer is also a corporate investigator for a Fortune 500 company, specializing in interviews and interrogation.

Credit: 24 hours

Cost: \$390

[Index](#)

[Top](#)

Basic Video Capture, Enhancement and Analysis

June 1 – 3, 2010

Rudy Gruenke

This course, by conference, demonstration and practical “hands-on” training, teaches students how to capture, enhance and analyze both analog and digital video through the use of a video imaging workstation. CrimeVision, Adobe Premiere, Adobe PhotoShop software and special video tools developed by the Institute are used to edit and extract data from both the still and video digital images for analysis. Use and selection of equipment for efficient video capture, enhancement and analysis are covered in detail.

TOPICS INCLUDE:

- ▶ Introduction to Video
- ▶ Adobe Premiere software
- ▶ Video Capture Workstation
- ▶ Video Acquisition (analog & digital)
- ▶ Video Restoration
- ▶ Field Alignment
- ▶ Video Stabilization
- ▶ CrimeVision software
- ▶ Adobe PhotoShop software
- ▶ Demultiplexing
- ▶ De-Quad
- ▶ Frame Averaging
- ▶ Rescale
- ▶ Archiving

PREREQUISITE: Completion of Forensic Digital Imaging, Phase I is recommended or equivalent experience.

Mr. Gruenke has more than a decade of experience in forensic imaging as part of a major police agency.

Credit: 24 hours

Cost: \$390

[Index](#)

[Top](#)

Major Accident Scene Investigation

June 7 – 9, 2010

To Be Determined

This course teaches law enforcement officers how to document a major accident scene with high-quality photographs and video. Students will learn the basics of photography and use digital and video cameras to document mock accident scenes. Lectures, discussions, and practical exercises help students put specific techniques into practice. Attention will be given to, what should be collected, how to protect the gathered materials, what notes to take and photographs that should be taken.

Topics Include:

- ▶ Basic Photography
- ▶ Lenses/Filters
- ▶ Flash Photography
- ▶ Close-up Photography
- ▶ Digital Photography
- ▶ Video Cameras
- ▶ Protocols for documenting accident scenes
- ▶ Camera Controls
- ▶ Exposure Controls
- ▶ Lighting Techniques
- ▶ Intro to digital imaging
- ▶ Downloading Images
- ▶ Video Camera Controls
- ▶ Applicable SWGIT guidelines

RECOMMENDED EQUIPMENT: Digital and video cameras, tripod, cable release, 3-foot extension cable for flash and spare batteries. A limited number of loaner still and video cameras are available.

PREREQUISITE: A basic understanding of photography is useful.

Credit: 24 hours

Cost: \$390

[Index](#)

[Top](#)

Forensic Digital Imaging, Phase II

June 14 – 17, 2010

Rudy Gruenke

This course, by conference, demonstration and practical, “hands-on” training teaches advanced tools in Adobe PhotoShop to produce quality images for law enforcement professionals. Phase II, demonstrates and teaches Adobe PhotoShop in much greater depth than Phase I, therefore a working knowledge of PhotoShop is required. Since image processing is the most common area for contesting images in courtrooms, the SWGIT guidelines will be reviewed and followed.

TOPICS INCLUDE:

- ▶ Image control and adjustments
- ▶ ICC Profiles
- ▶ Special plug-in filters
- ▶ Advanced photographic techniques
- ▶ Working with Raw Images
- ▶ Verifying Primary Images
- ▶ Color Management
- ▶ Layers, masks, and channels
- ▶ Alternative lighting
- ▶ Expanding Dynamic Range
- ▶ Hashing images
- ▶ Construct 1:1 Composites

RECOMMENDED EQUIPMENT: Digital camera kit (but not required).

PREREQUISITE: Applicants should have completed Forensic Digital Imaging Phase I or have equivalent experience using Adobe Photoshop, digital cameras and scanners.

Mr. Gruenke has extensive experience in forensic imaging as part of a major police agency.

Credit: 32 hours

Cost: \$520

[Index](#)

[Top](#)

Calibration and Validation of Laboratory Equipment

June 21 – 22, 2010

Mihran Tuceryan

Using lectures and demonstration, the fundamentals of calibration of several laboratory devices will be reviewed and the means for validating processes will be described. The courts are becoming more and more concerned with these matters, and lawyers are quick to bring in opposing experts if there is any indication that there has been laxity in these regards.

TOPICS INCLUDE:

- ▶ What is validation
- ▶ Basics of calibration
- ▶ Measurement of outputs
- ▶ Chemical analytical devices
- ▶ Mechanical devices
- ▶ What is reliability
- ▶ Calibration using standard samples
- ▶ What is the probability of a correct opinion
- ▶ Optical devices
- ▶ Keeping records and control charts

Mr. Tuceryan has more than a decade of experience, both in academia and the corporate environment. He will involve guest lecturers to cover different aspects of the general topic.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Forensic Science in the Courtroom

June 23 – 24, 2010

Joseph Bono

This course will be presented in lecture and discussion formats. The focal points will include legal documents and court decisions which have and will continue to impact forensic science testimony in the courtroom. This information will be conveyed from the perspective of the forensic scientist and will include real world examples of questions the forensic scientist may be required to address on both cross and direct examinations. There is no textbook required for this class. All required documentation is available in the public domain.

TOPICS INCLUDE:

- ▶ The National Academy of Science report
- ▶ U.S. Supreme Court decisions
- ▶ The meaning of “Knowledge, Skill and Experience”
- ▶ Federal Rules of Evidence
- ▶ Using probability statements

Mr. Bono is president-elect of the American Academy of Forensic Sciences and has vast experience in the field of forensic science as a practitioner and a laboratory manager.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

Investigation of Fire Incidents, Phase II

June 28 -- 29, 2010

Jay Dold, C.F.E.I.

This course, by lecture, conference, and demonstration teaches more advanced methods of how to investigate a scene where a fire has occurred. Attention is given to typical indicators of causes and sources of fire, analysis of samples and problems recording the scene and collecting materials for laboratory analysis. It is intended for people with some experience in the field. Investigation of Fire Incidents, Phase I or equivalent experience is a prerequisite.

TOPICS INCLUDE:

- ▶ Preliminary scene assessment
- ▶ What materials to collect for the lab
- ▶ How to prepare presentations
- ▶ Photo documentation
- ▶ Measuring the scene

Mr. Dold, a certified fire and explosion investigator, has a number of years of experience as a fire investigator, both for a major agency and as an independent practitioner.

Credit: 16 hours

Cost: \$260

[Index](#)

[Top](#)

ADDITIONAL INFORMATION

IFI is also available for other law enforcement needs:

Consulting and Research: The IFI staff will share their knowledge of equipment, software, and procedures to ensure the highest quality results based upon the needs of the department or agency requesting such information. In particular, IFI has done research for the Indiana Criminal Justice Institute, the National Institute of Justice, and the National Institute of Standards and Technology. IFI can provide referrals for case investigation and analysis work as well.

Constructing Computer Systems: IFI has constructed, tested and installed digital imaging darkrooms throughout Indiana to include Carmel Police Department, Greenwood Police Department, Anderson Police Department, and State Police labs in Lowell, Fort Wayne, Post 52 and the Indianapolis-Marion County Forensic Services Agency. The IFI staff is available to construct a system designed for your specific needs with continued support available after installation. The training of system operators is included in the contract.

IFI OFFERS ON-SITE TRAINING

IFI courses were developed on the basis of surveys of practical industry needs, technology evolution, and consistency with industry norms. Instructors follow approved course outlines to assure that all students are taught the full range of topics selected for the particular course. Compliance with the guidelines of the Scientific Working Group on Imaging Technology (SWGIT is sponsored by the FBI) is stressed. IFI can conduct courses at your site for better convenience. These courses include:

Forensic Digital Imaging, Phase I
Forensic Digital Imaging, Phase II
Forensic Digital Imaging, Phase III
Crime Scene Digital Photography
Digital Images for Managers
Presentations for the Courtroom

Some of the courses require the requesting agency to furnish a computer lab. If necessary, these courses can be tailored to meet specific needs of the requesting department or agency. Specialized training is also available for those agencies transitioning to digital to ensure that all personnel are familiar with the equipment and the new procedures that will be used with digital images.

ON-SITE COURSE FEES

Course Length Registration Fee

2-days \$300.00 per enrollee
3-days \$450.00 per enrollee
4-days \$600.00 per enrollee
5-days \$750.00 per enrollee

On-Site courses: Minimum of 10 Students—Maximum of 20. Courses can be constructed/modified/combined to meet agency needs. Requesting agency must furnish classroom, equipment, software, etc, depending on the course requested. IFI will furnish all training materials and any special equipment needed for the course.

On-Site Cost: 10 students x registration fee + expenses (minimum).
Any students enrolled over 10 will be charged one-half of the registration fee.

Expenses: Travel, Per Diem are at the Federal travel rate and Lodging is at cost for the area. Discounts are available for multiple courses scheduled at different times in the same calendar year.