

**5<sup>th</sup> Annual Tri-Division Educational Conference**

**October 4 – 7, 2010**

**Salt Lake City, UT**

**Law Enforcement**

**And**

**Forensics**

**United For One Common Goal**

Monday October 4, 2010									
Police Officer/Detective Emphasis Day									
Room	8:30	9:30	10:30	11:30		2:30	3:30	4:30	5:30
Cascade 1, 2	From Crypt to Courtroom: The King Tut Murder Investigation (No Limit)		Computer Forensics (No Limit)		Lunch 12:30 - 1:30 p.m.				
Timpanogos	The Caskets of Katrina (No Limit)	When They Want Fingerprints and DNA: Factors To Consider (No Limit)				Lori Hacking Case Study (No Limit)			
Majestic	Cold Case Study - Sorenson (No Limit)		Introduction to Detection/Cadaver Dogs (Limit 25)			Arson Investigations (No Limit)			
Ogden	DNA Evidence Collection - State Crime Lab (Limit 25)					Motorcycle Gangs (No Limit)		SIDS (No Limit)	
Cascade 3	Innovations in Tire Track / Footwear Evidence Collection and Examination (Limit 20)		Accurate Sizing of 3D Footwear/Tire Track Impressions from Crime Scene Images (Limit 20)			Bloodstain Pattern Documentation: A New Approach (Limit 12)			
Bryce	Forensic Odontology in Child Abuse and Homicides (No Limit)					Marijuana/FIDO Re-Certification (No Limit)			
Escalante						Basic Crime Scene Investigation 1 day class only (Limit 20)			

Tuesday October 5, 2010									
Crime Scene, Identification Analyst Emphasis Day									
Room	8:30	9:30	10:30	11:30		2:30	3:30	4:30	5:30
RCFL	ULW - IAFIS - Marian Price FBI (Limit 20)				Lunch 12:30 - 1:30 p.m.	ULW - IAFIS - Marian Price FBI (Limit 20)			
Timpanogos	Part One: The National Forensic Academy - Part Two: An Introduction to Shooting Scene Reconstruction (No Limit)					Part One: The National Forensic Academy - Part Two: An Introduction to Shooting Scene Reconstruction (No Limit)			
Bryce	Basic Crime Scene Photography (No Limit)					Low Light Photography (Limit 20)			
Escalante	Latent Print Photography (Limit 16)					DNA Evidence The Silent Witness - Sorenson Forensics (Limit 25)			
Cascade 1	T-model Statistics (Limit 40)		NAS Report (Limit 20)			Hair, Fiber, and Paint Collection and Analysis (Limit 20)			
Cascade 2	When They Want Fingerprints and DNA: Factors To Consider (No Limit)			Crime 360 - Total Station		Basic Crime Scene Investigation Day 1 of 2 (Limit 20)			
Cascade 3	Introduction to Bloodstain Pattern Analysis (Limit 16)					Bloodstain Enhancements (Limit 16)			
Majestic	Forensic Diving and Submerged Evidence (No Limit)					Profiling - Serial Killer Carl Stephen Moseley (No Limit)			

Wednesday October 6, 2010									
Prosecutor Emphasis Day									
Room	8:30	9:30	10:30	11:30		2:30	3:30	4:30	5:30
Cascade 1	Dealing with Fingerprint Evidence From Scene To Stand (Limit 40)		Dealing with Footwear Evidence From Scene To Stand (Limit 40)		Lunch 12:30 - 1:30 p.m.	Dealing with Footwear Evidence From Scene To Stand (Limit 40)		Dealing with Fingerprint Evidence From Scene To Stand (Limit 40)	
Timpanogos	SIDS (No Limit)		T-model Statistics (Limit 35)			Courtroom Testimony - Fingerprints (Limit 35)		NAS Report and Fingerprints (Limit 20)	
Bryce	Tips and Tricks to Lifting Latents (Limit 20)					Tips and Tricks to Lifting Latents (Limit 20)			
Escalante	DNA Evidence Collection - State Crime Lab (Limit 25)					Forensic Odontology in Child Abuse and Homicides (No Limit)			
Cascade 3	Basic Crime Scene Investigation Day 2 of 2 (Limit 20)					Glass Fracture Evidence (Limit 20)			
Majestic	Arson Investigations (No Limit)					Motorcycle Gangs (No Limit)			
Ogden	Computer Forensics (No Limit)		Crime 360 - Total Station (No Limit)			Search And Seizure Laws (No Limit)		Ethics (No Limit)	
Cascade 2	Daubert Issues (No Limit)		Panel Discussion (No Limit)			Profiling - Serial Killer Carl Stephen Moseley (No Limit)			

<b>Thursday October 7, 2010</b>								
Room	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00
Wasatch 2	Forensic Odontology In Child Abuse and Homicides (No Limit)							
Cascade 1	DNA Evidence Collection Training/The Silent Witness - Sorenson Forensics (Limit 25)							
Cascade 3	Lori Hacking Case Study (No Limit)							
Majestic	Glass Fracture Evidence (Limit 20)							
Bryce	Tips and Tricks to Lifting Latents (Limit 20)							



## **MONDAY PROGRAM**

8:30 AM – 10:30 AM – CASCADE 1 AND 2 – NO CLASS SIZE LIMIT – MIKE KING AND GREG COOPER

### **“From Crypt to Courtroom!” The King Tut Murder Investigation:**

Can modern investigative and forensic technologies assist in solving a murder that occurred over 3,300 years ago? The presenter(s) will share clips from the Emmy award winning film, “Who Killed King Tut?” currently on the Discovery Channel in 144 countries and 33 languages. This presentation will include video clips from the film and the experiences the presenter(s) had in solving this ancient crime.” The presenters will show how the systematic application of forensics, eye-witness accounts, confession, circumstantial evidence and behavior are used to effectively and efficiently solve crime. This is a particularly good time for this presentation while the King Tut artifacts are on loan to museums in the United States and in New York City right now. Join the presenters in unlocking the mystery of the “coldest” unsolved case in world history. The exciting conclusion and revelation of who killed the Pharaoh provide for the perfect “who dunnit!” Time, once thought of as the enemy to criminal investigations, has become the investigators ally.

*“[Who Killed King Tut?](#)” can be purchased in book stores or on [Amazon.com](#) and the authors will be happy to sign it.*

10:30 AM – 12:30 PM – CASCADE 1 AND 2 – NO CLASS SIZE LIMIT – JASON SNOW

**“Computer Forensics”**

8:30 AM – 9:30 AM – TIMPANOGOS – NO CLASS SIZE LIMIT – PAUL RIMMASCH

**“The Caskets of Katrina: Applying Forensic Photography Principles to a Natural Disaster Recovery Operation”**

This presentation will cover the factors and principles used by the instructor in order to document such a widespread tragedy and operation.

9:30 AM – 12:30 PM – TIMPANOGOS – NO CLASS SIZE LIMIT – THERESA SPEAR

**“When They Want Fingerprints and DNA: Factors to Consider”**

This presentation will cover the many factors that come into play when a single evidence item must be examined for both fingerprints and DNA. Depending upon the nature of the evidence, different considerations may apply. This presentation will describe how to handle this type of evidence to maximize the information and minimize the chances of contamination. Different scenarios for approaching evidence testing/processing and techniques to minimize the impact of fingerprint processing and obtaining DNA results will be discussed. Research performed on the impact of several different fingerprint reagents on DNA typing results and the likelihood of obtaining prints and DNA on cartridge cases will also be reviewed.

8:30 AM – 10:30 AM – MAJESTIC – NO CLASS SIZE LIMIT – TODD PARK

**“Using DNA to Uncover a Cold Case Mystery “**

1974 BYU student homicide cold case solved by DNA evidence found in the least likely location...Time has traditionally been an enemy in homicide investigations. In cold case investigations, it may become an ally. Det. Todd Park will review 2 different cold cases, the details, and how they were solved. You will learn the advantages of new technologies to exploit the passage of time in solving cold case homicides.

10:30 AM – 12:30 PM – MAJESTIC – **LIMIT 25** – APRIL MORSE

**“Introduction to Detection/Cadaver Dogs”**

This course will provide a brief introduction to how detection dogs (bomb, narcotics, and cadaver) are trained and work. The course will review the best way to work around these animals and things to consider.

8:30 AM – 12:30 PM – OGDEN – **LIMIT 25** - CHAD GRUNDY AND MANDI VANBUREN

**“DNA Evidence Collection – The Utah Bureau of Forensic Services”**

**This course is synonymous with the class offered by Sorenson Forensics; need not attend both classes unless desired.**

This course will cover the laboratory capabilities for biological evidence. Collection and packaging techniques will also be discussed.

8:30 AM – 10:30 AM – CASCADE 3 – LIMIT 20 – MICHAEL PERKINS

**“Innovations in Tire Track / Footwear Evidence Collection and Examination”**

This presentation will demonstrate modifications to established techniques for taking footwear/tire track exemplars, as well as supplies and equipment to aid with electrostatic lifting of impressions. Photographic aids and suggestions for new techniques will also be discussed.

10:30 AM – 12:30 PM – CASCADE 3 – LIMIT 20 – MICHAEL PERKINS

**“Accurate Sizing of 3D Footwear/Tire Track Impressions from Crime Scene Images”**

The ability to obtain accurate sizing of photographically documented impression evidence at crime scenes is critical, particularly with deep impressions or when casts do not result in comparative results. The present method recommended involves recessing the scale into the substrate to approximate the maximum depth of the impression. This has several limitations which will be discussed. This new procedure presented uses easy geometric math, an FBI Footwear Scale, and a laser measurement tool to document the impression at the scene. Calibration of the image is done in Photoshop to get the desired measurements. A practical demonstration of this technique will also be done.

8:30 AM – 12:30 PM – BRYCE/ESCALANTE – NO LIMIT - DR. NORMAN “SKIP” SPERBER, DDS:

**“Forensic Odontology in Child Abuse and Homicides”**

This course will discuss the role Forensic Odontologists play in identifying victims of homicides and child and sexual abuse. You will be able to gain a full understanding of modern forensic dentistry's role in mass disasters, homicides, sexual assaults and child abuse cases, and the various types of identification currently used in criminal cases. In addition to dental identification and bite mark cases, high profile cases will be discussed including Danielle Van Dam, Genny Rojas, Ted Bundy, as well as the World Trade Center disaster and more.

1:30 PM – 5:30 PM – TIMPANOGOS – NO LIMIT – SGT. KELLY KENT AND CORDON PARKS

**“Lori Hacking Case Study”**

*NO SYNOPSIS YET*

1:30 PM – 4:30 PM – MAJESTIC – NO LIMIT – DAVIN HALVORSEN

**“Arson Investigations”**

Items covered in this class will be basic fire behavior, burn pattern analysis, fire scene evidence identification, photography of the fire scene, collection of fire debris and other evidence, incendiary fires and arson case review.

1:30 PM – 3:30 PM – OGDEN – NO LIMIT – TODD HEWITT

### **“Introduction and Identification of Outlaw Motorcycle Gangs”**

This is an introductory course designed to provide basic information regarding outlaw motorcycle gangs (OMG). The course will address the identification of OMG members, the structure of the organizations, and the officer safety considerations to be addressed when interacting or investigating OME.

3:30 PM – 5:30 PM – OGDEN – NO LIMIT – JAMES MAY

### **“Sudden Unexplained Infant Death Investigation”**

This presentation addresses infant death investigation and provides strategies and guidelines for investigators and prosecutors involved with these cases to improve case outcome.

1:30 PM – 5:30 PM – CASCADE 3 – **LIMIT 12** – MICHAEL PERKINS

### **“Bloodstain Pattern Documentation: A New Approach”**

Bloodstain pattern documentation is an important preliminary step in the reconstruction of events where bloodshed occurs. This workshop is a hands-on opportunity to use advanced techniques of documentation using laser levels, digital and laser Measuring devices, and prepared worksheets. Bloodstain patterns are provided, as well as the necessary tools.

Each participant is required to bring a digital camera, memory cards, and (if possible) a tripod. **A flash is optional, but recommended. Computers will be provided to download the resulting images and to complete the exercises of measuring stain pattern areas, locations, angles of impact and direction of flight.**

This workshop consists of a PowerPoint presentation on how the various tools are used, followed by the practical application of the equipment and procedures. The participants will experience the ease of which stains are measured to a greater accuracy than the traditional method of using optical magnifiers, and understand the benefits of documentation techniques that offer significantly less chance of cross contamination of stains present at a scene.

1:30 PM – 5:30 PM – BRYCE – NO LIMIT – BRYAN HOLDEN AND RYAN BARNEY

### **“Marijuana/FIDO Re-certifications”**

As a way to re-certify a large number of Marijuana and FIDO techs this year, we asked that we be included in this years IAI conference. This is for all marijuana/FIDO techs who have already taken the course. This will be a half day event. Please bring the following supplies:

- Your own chemicals (this will be a requirement in all re-certifications from now on)
- A microscope if you are able to bring one
- 50% of the cases you have worked from this year. There will be audits every year and re-certifications will not be granted until a yearly audit has been complete.

A written exam, a practical exam and case audits will be done as apart of the re-certification process. Please com prepared with the above mentioned supplies.

1:30 PM – 5:30 PM – ESCALANTE – **LIMIT 20** – DOULGAS YOUNG – ONE DAY CLASS ONLY

### **“Basic Crime Scene Investigation”**

This course is designed for Patrol Officers, Crime Scene Investigators and New Detectives. The lecture portion of the course covers topics such as the values of physical evidence, Locard's Exchange Principle, case law regarding forensic investigations, crime scene management and overall crime scene investigation and processing. The hands on portion of this course covers topics such as latent print processing, basic crime scene photography and evidence collection and packaging and basic bloodstain pattern analysis. Students will perform hands on practical exercises to familiarize themselves with the various techniques used during crime scene investigations.

## **TUESDAY PROGRAM**

8:30 AM – 12:30 PM – REGIONAL COMPUTER FORENSICS LAB (RCFL) – **LIMIT 20** – MARIAN PRICE

**THIS CLASS IS BEING HELD OFFSITE AND A SHUTTLE WILL BE PROVIDED.**

### **“Universal Latent Workstation Software”**

This workshop will focus on the use of the Universal Latent Workstation (ULW) software. Some of the processes covered include: encoding minutiae points; completing ridge counts; saving to proper folders; sending to the IAFIS for search; and conducting comparisons of fingerprints with possible candidates returned from the IAFIS. This workshop is designed for Latent Print Examiners who work cases and enter latent fingerprints in the ULW for search through the IAFIS.

8:30 AM – 12:30 PM – TIMPANOGOS – NO LIMIT – NATIONAL FORENSIC ACADEMY

**“Part One: The National Forensic Academy – Part Two: An Introduction To Shooting Scene Reconstruction”**

During this presentation, Nathan Lefebvre will introduce participants to the University of Tennessee National Forensic Academy (NFA), a ten-week multi-disciplinary crime scene investigator training program available in Oak Ridge, TN. Additionally, Howard Ryan, an instructor for the NFA will discuss terminology, documentation, report writing and courtroom presentation as they relate to shooting scene reconstruction.

8:30 AM – 12:30 PM – BRYCE – NO LIMIT – PAUL RIMMASCH

**“Basic Crime Scene Photography”**

THIS LECTURE ONLY COURSE WILL ENCOMPASS THE BASIC KNOWLEDGE ONE WOULD NEED TO PROPERLY DOCUMENT A CRIME SCENE.

8:30 AM – 12:30 PM – ESCALANTE – **LIMIT 16** – ELISA FARMER

**“Latent Print Photography”**

This course is a hands on minimal lecture class designed to discuss and practice taking proper photos to document a latent print for AFIS and comparison purposes.

**Students will need to bring a camera, tri-pod, and detachable flash if possible.**

8:30 AM – 10:30 PM – CASCADE 1 – **LIMIT 40** – HENRY TEMPLEMAN

## **"The T-Model: Fingerprint Identification Based on Match Probability and Relevant Population - An Introduction"**

The lecture will present an open source fingerprint match probability model for fingerprints that estimates the number of fingerprint "look-alikes" in the relevant population for the case at hand, and subsequently defines thresholds for sufficiency to infer positive identification. The model takes into consideration Level I, II and III fingerprint ridge detail, and uses probability theory to define match probabilities based on, in part, population distributions of fingerprint ridge feature "shapes in position". The model takes into consideration ridge edge contour and path, ridge feature quality of agreement, as well as ridge feature reliability and "clarity" (a variable that the National Academy of Sciences states no statistical probability model addresses). The model combines these variables to estimate the total quantitative and qualitative discriminating values for individual ridge features and clusters of ridge features in fingerprints. This "total" quantitative and qualitative probability model for fingerprints is the "T-Model".

10:30 AM – 12:30 PM – CASCADE 1 – LIMIT 20 – HENRY TEMPLEMAN

## **"The NAS Report and Fingerprints"**

The National Academy of Science (NAS) Report *Strengthening Forensics Science in the United States: A Path Forward* describes the need for "overhaul" of many forensic disciplines, including fingerprints.

This presentation highlights criticism by the NAS Report as it relates to fingerprints and how the fingerprint community, e.g., San Jose Police Department Central Identification Unit, has responded with improved documentation of identification conclusions with a "Technical Summary", the introduction of internal "blind" proficiency tests, the use of general thresholds to establish inference for identification, testifying to conclusions in terms consistent with the NAS Report and science, and introducing probability theory and empirical research, e.g., "fingerprint experiments", in training latent print examiners to competency.

8:30 AM – 11:30 AM – CASCADE 2 – NO LIMIT – THERESA SPEAR

## **"When They Want Fingerprints and DNA: Factors to Consider"**

This presentation will cover the many factors that come into play when a single evidence item must be examined for both fingerprints and DNA. Depending upon the nature of the evidence, different considerations may apply. This presentation will describe how to handle this type of evidence to maximize the information and minimize the chances of contamination. Different scenarios for approaching evidence testing/processing and techniques to minimize the impact of fingerprint processing and obtaining DNA results will be discussed. Research performed on the impact of several different fingerprint reagents on DNA typing results and the likelihood of obtaining prints and DNA on cartridge cases will also be reviewed.

8:30 AM – 12:30 PM – CASCADE 3 – **LIMIT 16** – KAREN ELLIOTT

### **“Introduction to Bloodstain Pattern Analysis”**

The goal of this class is to provide the student with a basic, introductory overview of bloodstain pattern analysis. The student will learn the background information and techniques necessary in documentation and performing limited analyses. This will in no way replace the physical practice required when dealing with actual casework. This class is designed to be an educational introduction to bloodstain pattern analysis. Upon completion of this course, the student will be able to:

- Discuss the limitations of Bloodstain Pattern Analysis.
- Determine the angle of impact and directionality when presented with any well-formed bloodstain.
- Describe the advantages and disadvantages of certain presumptive tests.
- Discuss the different methods available for collecting blood samples.
- Properly document and photograph crime scenes with bloodstain patterns present.

8:30 AM – 12:30 PM – MAJESTIC – NO LIMIT – RYAN BARNEY AND JAMES MAY

### **“Submerged Evidence Course/Forensic Diving”**

This class will be lecture and discussion on various topics concerning evidence that has been submerged in water. The course will cover examples of evidence, the water environment and its effects on different types of evidence, how to search and recover submerged evidence, and several issues that need to be considered when dealing with wet or submerged evidence. There will also be discussion on various examples and case studies that illustrate the information covered.

11:30 AM – 12:30 PM – CASCADE 2 - LIMIT – ALAN DEMANN

### **“CRIME 360 – TOTAL STATION”**

McNeil Survey and Engineering is a Licensed Utah company with an office in **Midvale, Utah**. McNeil Surveying and Engineering has offered **land and structure surveying**, civil and structural engineering and landscape architecture services for over **28 years**. McNeil currently, maintains professional licenses in Utah, Arizona, California, Colorado, Connecticut, Florida, Hawaii, Idaho, Illinois, Montana, Nevada, New Mexico, North Carolina, Montana, Oregon, South Carolina, Texas, Washington and Wyoming. McNeil Surveying and Engineering is securing additional licenses with its operations expanding to world wide capacity servicing areas such as Alabama, California, Vermont, India, England, Australia and more.

1:30 PM – 5:30 PM – REGIONAL COMPUTER FORENSICS LABORATORY – **LIMIT 20** – MARIAN PRICE **THIS CLASS IS BEING HELD OFFSITE AND A SHUTTLE WILL BE PROVIDED.**

### **“Universal Latent Workstation Software”**

This workshop will focus on the use of the Universal Latent Workstation (ULW) software. Some of the processes covered include: encoding minutiae points; completing ridge counts; saving to proper folders; sending to the IAFIS for search; and conducting comparisons of fingerprints with possible candidates returned from the IAFIS. This workshop is designed for Latent Print Examiners who work cases and enter latent fingerprints in the ULW for search through the IAFIS.

1:30 PM – 5:30 PM – MAJESTIC – NO LIMIT – GREG COOPER

### **“The Ten Filters of Criminal (psychological) Profiling”**

Criminal or psychological profiling is a popular theme dramatized by the entertainment industry as another crime fighting tool among law enforcements’ arsenal of investigative techniques. It has been recognized especially as an

effective method in identifying common **behavioral** characteristics among a series of violent crimes while successfully linking them to a common offender. Additionally it has been useful in understanding offender personality characteristics revealed from forming a synthesis between the **crime scene behaviors** and the case **victimology**. While serving as an FBI Criminal Profiler and instructing at the FBI National Academy at Quantico, VA, Cooper developed an instructional model for teaching the concepts and principles of Criminal Profiling. Eventually he utilized the model, referred to as “The Ten Filters of Profiling”, as an outline for presenting his qualifying expert witness testimony as a Criminal Profiler in two separate homicide cases committed by Carl Stephen Mosely , North Carolina. This case was highlighted in John Douglas’s New York Times Bestseller, “Mind Hunters”. Mosely was subsequently convicted of both homicides and was uniquely sentenced to death on each conviction. Cooper will present the Mosely case through the application of the “Ten Filters of Profiling”.

Participants are urged to bring to the class any current or “cold” case that may benefit from the application of principles and methodology presented in class.

1:30 PM – 5:30 PM – BRYCE – **LIMIT 20** – PAUL RIMMASCH

### **“Low Light Photography”**

This course is a hands on, minimal lecture, class designed to give the student a better understanding of documenting a crime scene when there is minimal light available.

**Student should bring a camera and tri-pod if possible.**

1:30 PM – 5:30 PM – TIMPANOGOS – NO LIMIT – NATIONAL FORENSIC ACADEMY

**“Part One: The National Forensic Academy - Part Two: An Introduction to Shooting Scene Reconstruction”**

During this presentation, Nathan Lefebvre will introduce participants to the University Of Tennessee National Forensic Academy (NFA), a ten-week multi-disciplinary crime scene investigator training program available in Oak Ridge, TN. Additionally, Howard Ryan, an instructor for the NFA will discuss terminology, documentation, report writing and courtroom presentation as they relate to shooting scene reconstruction.

1:30 AM – 5:30 PM – ESCALANTE – **LIMIT 25** – SORENSON FORENSICS

**“DNA the Silent Witness - DNA Crime Scene Collection Training Class”**

**This course is synonymous with the class offered by the Utah Bureau of Forensic Services; need not attend both classes unless desired.**

As everyone knows, biological or DNA evidence has become an important part of solving crimes. We will be discussing the latest scientific advances to assist you in your investigations. Alexis Brown, Forensic DNA Analyst Supervisor from Sorenson Forensics, will be teaching you the latest collection techniques to make certain that any DNA evidence from a crime scene is collected and processed correctly.

1:30 PM – 5:30 PM – CASCADE 1 – **LIMIT 20** – BRYAN HOLDEN AND JENNIFER MCNAIR

**“Paint, Hairs and Fibers: Their Collection and Significance in Criminal Investigations”**

This course is designed for crime scene personnel as well as detectives. This presentation focuses on the mechanism on how paint, hair, and fibers can be transferred, how long one can expect trace evidence to be present at a crime scene and how to properly identify and collect trace evidence. The analysis of trace and the meaning of the results will also be presented. This course will use both a power point presentation as well as hands on demonstrations.

1:30 PM – 5:30 PM – CASCADE 2 – LIMIT 20 – DOUGLAS YOUNG (DAY 1)

THIS IS DAY 1 OF A TWO DAY COURSE

### **“Basic Crime Scene Investigation”**

This course is designed for Patrol Officers, Crime Scene Investigators and New Detectives. The lecture portion of the course covers topics such as the values of physical evidence, Locard's Exchange Principle, case law regarding forensic investigations, crime scene management and overall crime scene investigation and processing. The hands on portion of this course covers topics such as latent print processing, basic crime scene photography and evidence collection and packaging and basic bloodstain pattern analysis. Students will perform hands on practical exercises to familiarize themselves with the various techniques used during crime scene investigations.

1:30 PM – 5:30 PM – CASCADE 3 – LIMIT 16 – KAREN ELLIOTT

### **“Bloodstain Enhancements”**

This course will provide the student with first-hand knowledge of how and when to employ chemical searching and enhancing techniques for latent bloodstains. Students will acquire first-hand knowledge of the benefits as well as the limitations of commonly utilized searching and enhancement techniques with both lecture and practical exercises. Upon completion of this class, the participants will have acquired a basic understanding of how and when to utilize blood searching and enhancing chemicals to assist in their investigation where latent blood is suspected.

## **WEDNESDAY PROGRAM**

8:30 AM – 10:30 AM – CASCADE 1 – **LIMIT 40** – KENT TIMOTHY

### **“Dealing with Fingerprint Evidence from the Scene to the Stand”**

A class intended for Officers, Detective and Crime Scene Investigator reviewing some of the cases Mr. Timothy has been involved in with the purpose of discussing techniques for the recording, preservation, analysis, comparison, documentation and presentation of fingerprint evidence including AFIS operation and negative testimony.

10:30 AM – 12:30 PM – CASCADE 1 – **LIMIT 40** – KENT TIMOTHY

### **“Dealing with Footwear and Tire track Evidence from the Scene to the Stand”**

A class intended for Officers, Detective and Crime Scene Investigator reviewing some of the cases Mr. Timothy has been involved in with the purpose of discussing techniques for the recording, preservation, analysis, comparison, documentation and presentation of footwear and tire track evidence including negative evidence.

8:30 AM – 10:30 AM – TIMPANOGOS – NO LIMIT – JAMES MAY

### **“Sudden Unexplained Infant Death Investigation”**

This presentation addresses infant death investigation and provides strategies and guidelines for investigators and prosecutors involved with these cases to improve case outcome.

10:30 AM – 12:30 PM – TIMPANOGOS – **LIMIT 35** – HENRY TEMPLEMAN

### **"The T-Model: Fingerprint Identification Based on Match Probability and Relevant Population - An Introduction"**

The lecture will present an open source fingerprint match probability model for fingerprints that estimates the number of fingerprint "look-alikes" in the relevant population for the case at hand, and subsequently defines thresholds for sufficiency to infer positive identification. The model takes into consideration Level I, II and III fingerprint ridge detail, and uses probability theory to define match probabilities based on, in part, population distributions of fingerprint ridge feature "shapes in position". The model takes into consideration ridge edge contour and path, ridge feature quality of agreement, as well as ridge feature reliability and "clarity" (a variable that the National Academy of Sciences states no statistical probability model addresses). The model combines these variables to estimate the total quantitative and qualitative discriminating values for individual ridge features and clusters of ridge features in fingerprints. This "total" quantitative and qualitative probability model for fingerprints is the "T-Model".

8:30 AM – 12:30 PM – ESCALANTE – **LIMIT 25** – CHAD GRUNDY AND MANDI VANBUREN

### **“DNA Evidence Collection – Utah Bureau of Forensic Services”**

**This course is synonymous with the class offered by Sorenson Forensics; need not attend both classes, unless desired.**

This course will cover the laboratory capabilities for biological evidence. Collection and packaging techniques will also be discussed.

8:30 AM – 12:30 PM – CASCADE 3 – LIMIT 20 – DOUGLAS YOUNG

THIS IS DAY 2 OF A TWO DAY COURSE

**“Basic Crime Scene Investigation”**

8:30 AM – 11:30 AM – MAJESTIC – NO LIMIT – DAVIN HALVORSEN

**“Arson Investigations”**

Items covered in this class will be basic fire behavior, burn pattern analysis, fire scene evidence identification, photography of the fire scene, collection of fire debris and other evidence, incendiary fires and arson case review.

8:30 AM – 10:30 AM – OGDEN – NO LIMIT – JASON SNOW

**“Computer Forensics”**

NO SYNOPSIS YET

10:30 AM – 12:30 PM – OGDEN – NO LIMIT – ALAN DEMANN

**“CRIME 360 – TOTAL STATION”**

McNeil Survey and Engineering is a Licensed Utah company with an office in **Midvale, Utah**. McNeil Surveying and Engineering has offered **land and structure surveying**, civil and structural engineering and landscape architecture services for over **28 years**. McNeil currently, maintains professional licenses in Utah, Arizona, California, Colorado, Connecticut, Florida, Hawaii, Idaho, Illinois, Montana, Nevada, New Mexico, North Carolina, Montana, Oregon, South Carolina, Texas, Washington and Wyoming. McNeil Surveying and Engineering is securing additional licenses with its operations expanding to world wide capacity servicing areas such as Alabama, California, Vermont, India, England, Australia and more.



8:30 AM – 12:30 PM – BRYCE – **LIMIT 20** – JASON COLE

## **“Lifting Latent Prints Off Unusual and Textured Surfaces”**

This hands-on class is designed to give experience to officers by using various powder applications lifting techniques and other techniques such as Liqui-Lift, Mikrosil, Extruder Gun & Diff-Lift Tape. The only way to be proficient and confident in lifting latent prints off unusual and textured surfaces is by doing it. By doing these techniques you will be able to lift latent prints off almost any unusual surface that a print has been developed on, such as paper, feathers, wet surfaces, textured surfaces and multi-contoured surface. Numerous substrates will be used to lift latent prints.

The following techniques will be done in the class:

- Lifting latent prints off textured surfaces; This technique is done using Diff-Lift Tape, which allows all the ridge detail to lift off the textured surface.
- Lifting latent prints off multi-contoured surfaces;  
This procedure will be done using polyethylene tape to lift the prints.
- Developing and lifting latent prints on wet surfaces while still wet;  
Lifting prints off wet surfaces will be done by using Wet Print.
- Developing and lifting latent prints on a paper towel;  
Developed using magnetic applicator and black powder and lifting with Diff-Lift Tape.
- Developing and lifting latent prints on a feather;  
Developed using a fiber brush and black powder and lifting with standard lift tape.
- Developing latent prints on the adhesive side of tape;  
Developing prints will be done using Goo Print Powder.

8:30 AM – 10:30 AM – CASCADE 2 – NO LIMIT – ELISA FARMER

### **“Daubert Issues”**

This course will cover how to prepare and what to expect during “DAUBERT” hearing. This will be some lecture and some panel discussion.

10:30 AM – 12:30 PM – CASCADE 2 – NO LIMIT– KARNE ELLIOTT, JAY HENRY, PILAR SHORTSLEEVE (MORE PANEL INSTRUCTORS TO COME)

### **“Panel Discussion Between Attorney’s and Forensic Personnel”**

This will be an open forum for attorneys to be able to answer questions regarding forensic evidence. Topics may include what to expect from the crime scene investigators, laboratory personnel, and how what happens at a crime scene can directly affect the outcome in the courtroom.

1:30 PM – 3:30 PM – CASCADE 1 – LIMIT 40 – KENT TIMOTHY

### **“Dealing with Footwear and Tire track Evidence from the Scene to the Stand”**

A class intended for Officers, Detective and Crime Scene Investigator reviewing some of the cases Mr. Timothy has been involved in with the purpose of discussing techniques for the recording, preservation, analysis, comparison, documentation and presentation of footwear and tire track evidence including negative evidence.

3:30 PM – 5:30 PM – CASCADE 1 – LIMIT 40 – KENT TIMOTHY

### **“Dealing with Fingerprint Evidence from the Scene to the Stand”**

A class intended for Officers, Detective and Crime Scene Investigator reviewing some of the cases Mr. Timothy has been involved in with the purpose of discussing techniques for the recording, preservation, analysis, comparison, documentation and presentation of fingerprint evidence including AFIS operation and negative testimony.

1:30 PM – 3:30 PM – TIMPANOGOS – LIMIT 35 – HENRY TEMPLEMAN

### **"Courtroom Testimony for Latent Print Examiners"**

Historically latent print examiners have testified to the significance of a fingerprint match in terms of absolute certainty and 100% confidence which the National Academy of Science (NAS) Report *Strengthening Forensic Science in the United States: A Path Forward* has described as "unjustified". The workshop will discuss the concept of uncertainty in science, examiner fallibility regarding fingerprint Conclusions, the foundations examiners use to establish "inference" for identification, and various ways to state conclusions regarding the significance of a "match" in terms consistent with the NAS Report, science, and the recently adopted IAI Resolution 2010-18. The course is designed to allow participants to freely discuss these topics, share possible answers to probable questions, and prepare the participant to speak to these issues, if necessary in court.

3:30 PM – 5:30 PM – TIMPANOGOS – LIMIT 20 – HENRY TEMPLEMAN

### **"The NAS Report and Fingerprints"**

The National Academy of Science (NAS) Report *Strengthening Forensics Science in the United States: A Path Forward* describes the need for "overhaul" of many forensic disciplines, including fingerprints.

This presentation highlights criticism by the NAS Report as it relates to fingerprints and how the fingerprint community, e.g., San Jose Police Department Central Identification Unit, has responded with improved documentation of identification conclusions with a "Technical Summary", the introduction of internal "blind" proficiency tests, the use of general thresholds to establish inference for identification, testifying to conclusions in terms consistent with the NAS Report and science, and introducing probability theory and empirical research, e.g., "fingerprint experiments", in training latent print examiners to competency.

1:30 PM – 5:30 PM – ESCALANTE – NO LIMIT - DR. NORMAN “SKIP” SPERBER, DDS:

### **“Forensic Odontology in Child Abuse and Homicides”**

This course will discuss the role Forensic Odontologists play in identifying victims of homicides and child and sexual abuse. You will be able to gain a full understanding of modern forensic dentistry's role in mass disasters, homicides, sexual assaults and child abuse cases, and the various types of identification currently used in criminal cases. In addition to dental identification and bite mark cases, high profile cases will be discussed including Danielle Van Dam, Genny Rojas, Ted Bundy, as well as the World Trade Center disaster and more.

1:30 PM – 5:30 PM – CASCADE 3 – **LIMIT 20** – DOUGLAS YOUNG

### **“Glass Fracture Evidence”**

While glass is a very common substance to us, its evidentiary value is often times overlooked. Broken glass as well as glass fracture evidence can provide the investigator with investigative leads early on in an investigation. This course explores the production of glass, the various types of glass encountered in our daily environment and the investigative value of glass. Students will also have the opportunity to examine broken glass fragments for direction of force determination and reconstructive purposes.

1:30 PM – 3:30 PM – MAJESTIC – NO LIMIT –TODD HEWITT

**“Introduction and Identification of Outlaw Motorcycle Gangs”**

This is an introductory course designed to provide basic information regarding outlaw motorcycle gangs (OMG). The course will address the identification of OMG members, the structure of the organizations, and the officer safety considerations to be addressed when interacting or investigating OMG.

1:30 PM – 5:30 PM – BRYCE – LIMIT 20 – JASON COLE

**“Lifting Latent Prints off Unusual and Textured Surfaces”**

This hands-on class is designed to give experience to officers by using various powder applications lifting techniques and other techniques such as Liqui-Lift, Mikrosil, Extruder Gun & Diff-Lift Tape. The only way to be proficient and confident in lifting latent prints off unusual and textured surfaces is by doing it. By doing these techniques you will be able to lift latent prints off almost any unusual surface that a print has been developed on, such as paper, feathers, wet surfaces, textured surfaces and multi-contoured surface. Numerous substrates will be used to lift latent prints.

The following techniques will be done in the class:

- Lifting latent prints off textured surfaces; This technique is done using Diff-Lift Tape, which allows all the ridge detail to lift off the textured surface.
- Lifting latent prints off multi-contoured surfaces;  
This procedure will be done using polyethylene tape to lift the prints.
- Developing and lifting latent prints on wet surfaces while still wet;  
Lifting prints off wet surfaces will be done by using Wet Print.
- Developing and lifting latent prints on a paper towel;  
Developed using magnetic applicator and black powder and lifting with Diff-Lift Tape.
- Developing and lifting latent prints on a feather;  
Developed using a fiber brush and black powder and lifting with standard lift tape.
- Developing latent prints on the adhesive side of tape;  
Developing prints will be done using Goo Print Powder.

1:30 PM – 5:30 PM – CASCADE 2 – NO LIMIT – GREG COOPER

### **“The Ten Filters of Criminal (psychological) Profiling”**

Criminal or psychological profiling is a popular theme dramatized by the entertainment industry as another crime fighting tool among law enforcements’ arsenal of investigative techniques. It has been recognized especially as an effective method in identifying common **behavioral** characteristics among a series of violent crimes while successfully linking them to a common offender. Additionally it has been useful in understanding offender personality characteristics revealed from forming a synthesis between the **crime scene behaviors** and the case **victimology**. While serving as an FBI Criminal Profiler and instructing at the FBI National Academy at Quantico, VA, Cooper developed an instructional model for teaching the concepts and principles of Criminal Profiling. Eventually he utilized the model, referred to as “The Ten Filters of Profiling”, as an outline for presenting his qualifying expert witness testimony as a Criminal Profiler in two separate homicide cases committed by Carl Stephen Mosely , North Carolina. This case was highlighted in John Douglas’s New York Times Bestseller, “Mind Hunters”. Mosely was subsequently convicted of both homicides and was uniquely sentenced to death on each conviction. Cooper will present the Mosely case through the application of the “Ten Filters of Profiling”.

Participants are urged to bring to the class any current or “cold” case that may benefit from the application of principles and methodology presented in class.

1:30 PM – 3:30 PM – OGDEN – NO LIMIT – STUART SMITH

### **“Search and Seizure Laws”**

This course will cover the laws dealing with search and seizure. Topics will include discussing the amendments dealing with these issues and what law enforcement personnel will need to know to follow these protocols.

3:30 PM – 5:30 PM – OGDEN – NO LIMIT – JAY HENRY

### **“Ethics in Forensic Science”**

This course will cover the ethical aspect of law enforcement personnel, forensic scientists, crime scene analysts, as well as attorney’s.

## **THURSDAY PROGRAM**

8:30 AM – 12:30 PM – WASATCH 2 – NO LIMIT - DR. NORMAN “SKIP” SPERBER, DDS:

### **“Forensic Odontology in Child Abuse and Homicides”**

This course will discuss the role Forensic Odontologists play in identifying victims of homicides and child and sexual abuse. You will be able to gain a full understanding of modern forensic dentistry’s role in mass disasters, homicides, sexual assaults and child abuse cases, and the various types of identification currently used in criminal cases. In addition to dental identification and bite mark cases, high profile cases will be discussed including Danielle Van Dam, Genny Rojas, Ted Bundy, as well as the World Trade Center disaster and more.

8:30 AM – 12:30 PM – CASCADE 1 – **LIMIT 25** – SORENSON FORENSICS

### **DNA the Silent Witness - DNA Crime Scene Collection Training Class**

This course is synonymous with the class offered by the Utah Bureau of Forensic Services, need not attend both classes unless desired.

As everyone knows, biological or DNA evidence has become an important part of solving crimes. We will be discussing the latest scientific advances to assist you in your investigations. Alexis Brown, Forensic DNA Analyst Supervisor from Sorenson Forensics, will be teaching you the latest collection techniques to make certain that any DNA evidence from a crime scene is collected and processed correctly.

8:30 AM – 12:30 PM – CASCADE 3 – NO LIMIT – SGT. KELLY KENT AND CORDON PARKS

**“Lori Hacking Case Study”**

8:30 AM – 12:30PM – MAJESTIC – LIMIT 20 – DOULGAS YOUNG

**“Glass Fracture Evidence”**

While glass is a very common substance to us, its evidentiary value is often times overlooked. Broken glass as well as glass fracture evidence can provide the investigator with investigative leads early on in an investigation. This course explores the production of glass, the various types of glass encountered in our daily environment and the investigative value of glass. Students will also have the opportunity to examine broken glass fragments for direction of force determination and reconstructive purposes.

8:30 AM – 12:30 PM – BRYCE – **LIMIT 20** – JASON COLE

## **“Lifting Latent Prints off Unusual and Textured Surfaces”**

This hands-on class is designed to give experience to officers by using various powder applications lifting techniques and other techniques such as Liqui-Lift, Mikrosil, Extruder Gun & Diff-Lift Tape. The only way to be proficient and confident in lifting latent prints off unusual and textured surfaces is by doing it. By doing these techniques you will be able to lift latent prints off almost any unusual surface that a print has been developed on, such as paper, feathers, wet surfaces, textured surfaces and multi-contoured surface. Numerous substrates will be used to lift latent prints.

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This procedure will be done using polyethylene tape to lift the prints.
- Developing and lifting latent prints on wet surfaces while still wet;  
Lifting prints off wet surfaces will be done by using Wet Print.
- Developing and lifting latent prints on a paper towel;  
Developed using magnetic applicator and black powder and lifting with Diff-Lift Tape.
- Developing and lifting latent prints on a feather;  
Developed using a fiber brush and black powder and lifting with standard lift tape.
- Developing latent prints on the adhesive side of tape;  
Developing prints will be done using Goo Print Powder.

## **INSTRUCTOR INFORMATION**

### **Ryan Barney**

Ryan was raised in a small southern Utah town called Hatch. (15 miles south of Panguitch in Garfield County) He received a Bachelor of Science degree in Biology with a minor in Chemistry from Southern Utah University May of 2000. While attending the university Ryan certified as an open water diver, advanced scuba diver, and a rescue diver. He worked for Myriad genetics for just over two years as a lab technician where he was on a team that helped identify the remains from the World Trade Center terrorist attack. In 2002 he went to Marshall University for a Masters of Science degree in forensic science. In 2005 Ryan was hired on as a drug chemist with the Utah Bureau of Forensic Services. He was appointed to the DPS dive team in 2006 as the forensic specialist. He is currently a DNA analyst for the Crime lab and maintains his position as the forensic specialist for the dive team, but is now also an instructor for the team.

### **Alexis Brown**

Alexis received her Bachelor of Science degree from Tulane University in Cell and Molecular Biology. She has a great wealth of experience dealing with low DNA samples and has worked for both public and private DNA laboratories. Alexis's responsibilities include training DNA analysts, maintaining quality assurance for Sorenson Forensics, and processing and interpretation of casework.

## **Jason Cole**

Jason began his law enforcement career as a police officer for the Sandy City Police Department in 1998. He transferred to Investigations and was the Detective over juvenile crime and domestic violence cases. As a Detective, he began to receive training in crime scene investigation. In 2001 he left Sandy City and was hired by the West Valley City Police Department as a Forensic Investigator. In 2007 he was promoted and became the Forensic Director of the West Valley City Police Crime Laboratory. In 2010 he accepted a position as a Latent Print Examiner for the Henderson Police Department.

Jason has been a member of the Utah Division of IAI since 1999, and has served on the Board of Director since 2000, including President in 2003. He is currently the Secretary / Treasurer.

Jason co-founded the Utah Crime Scene Investigators in 2002 to bring forensic training to Utah, and build unity among police agencies.

Jason is the owner of Law Enforcement Training Consultants, LLC and has brought many training classes to Utah. Jason has also instructed different courses in Utah, Colorado, Nevada and Arizona.

## **Greg Cooper**

### **Experience**

Gregory M. Cooper, M.P.A., Brigham Young University, provides services as an international trainer and consultant in criminal profiling, prescriptive interviewing, police management, violent crime investigations, expert witness in criminal behavior analysis and police civil rights issues and administrative matters. He serves the law enforcement, legal, corporate, and educational communities.

Formerly, he worked as an Assistant Federal Security Director for Law Enforcement, US Department of Homeland Security; Police Chief of Provo, Utah (during the 2002 Salt Lake Winter Olympics and the 2002 National Triathlon events); Unit Chief of the FBI's National Center for the Analysis of Violent Crime; The National Program Manager for the FBI's Violent Criminal Apprehension Program; FBI Criminal Profiler and FBI National Academy Instructor, working hundreds of cases including homicide, sexual assault, kidnapping, terrorism, political corruption and specializing in serial crimes. Cooper served as the Investigative Support Services Director, Motorola, Inc., developing an intuitive based investigative support software system with (Investigative Management System and Crime Analysis/Mapping Program) protocols for all major crimes and including homicide and serial homicide, sexual assault, rape and serial rape, abduction, arson and bombing. Cooper began his career in law enforcement as a Police Officer in Provo, Utah, and also served as a Police Chief in Delta, Utah, before entering the FBI.

### **Publications**

Mr. Cooper's publications include, Cold Case Investigations,(Law Tech Publishing ,2008); Predators; Who They Are and How To Stop Them, also currently used as a college text book, (Prometheus Press, 2007 ; received Library Journal Best Book 2007 Award); The Violent Criminal Apprehension Program,(The Forensic Examiner, Fall 2007) Interviewing Incarcerated Offenders Convicted of Sexually Assaulting the Elderly ,(Journal of Forensic Nursing, Fall 2006 ) ; the FBI's Crime Classification Manual (Jossey-Bass ,2006 ,1995 receiving the Jefferson Award) ; Who Killed King Tut (Prometheus, 2004); Analyzing Criminal Behavior I & II (IOIS, 2001), also currently used as a college textbook.

#### Media Consultation and Featured Programs

Cooper has co-starred in two Discovery Channel programs, "The Assassination of King Tut" and "Case Revisited: The Assassination of King Tut", translated into 33 languages and televised in 149 countries. Additionally he has co-starred in Court TV; Body of Evidence. Cooper has consulted in major cases worldwide, including consultation for APB News.com, MSNBC, Court TV, FOX National News "On the Record" with Gretta Van Susteren, CNN with Ashley Banfield, and A&E Cold Case Files.

#### Education and Instruction

He has instructed at the Utah Police Academy, Utah Valley State University, Salt Lake Community College, University of Virginia, Boston College and Kaplan University. Cooper is a Visiting Scholar at Boston University, Distinguished Scholar at Kaplan University, instructs at the Salt Lake Community College, ITT Technical Institute and is an International Law Enforcement Trainer and Educator. He provides instruction and consultation to the international law enforcement community in several topics including Criminal Profiling, Victimology, Criminal Investigative Analysis, Prescriptive Interviewing, Death Investigation, Cold Case Investigation and Mgt., Administration and Leadership. He instructed at the FBI National Academy at Quantico, VA. (University of Virginia); Utah Valley University; Salt Lake Community College; Utah Police Academy; Kaplan and ITT Technical Institute. Courses instructed included, Criminal Investigative Analysis, Abnormal Criminal Psychology, Death Investigation, Psychological Criminal Profiling, Police Ethics, Victimology, and Homeland Security, Group Dynamics, Principles of Policing, Dynamics of the Expert Witness, Criminology, Police Administration and Interviewing and Interrogation.

### **Alan DeMann**

Alan DeMann has been a business manager in retail, aerospace, construction and now LiDAR survey industries for over 25 years. Alan computerized inventories and sales records for athletic goods. He helped aerospace launch vehicles move from Government to Commercial launches reducing rocket motor costs from \$1.2 million to 600,000 per unit. Additionally, he reduced home construction from 200 plus days to less than 60 days by initiating use of internet schedules, work orders and inspections for subcontractors, saving over \$10,000 per home in interest costs alone. Alan now hopes to assist law enforcement with digitalized crime and accident scene preservation.

Professional Title: Manager – Business Development

Organization Affiliation: McNeil Survey and Engineering  
Address: 6895 S. 900 E, Salt Lake City , UT 84047  
Phone: 801 633 2798 Fax: 801 255 8071  
Email: alan@mcneileng.com

**Karen Elliott**

Karen has been employed as a Forensic Scientist at the Utah Bureau of Forensic Services for over 10 years and has worked as a Certified Latent Print Examiner and Blood Stain Pattern Analyst. She is the Crime Scene Supervisor and Quality Manager for the State Crime Laboratory system. Karen is responsible for teaching and organizing the Crime Scene Specialist Training for law enforcement officers and Crime Scene technicians throughout the state of Utah as well as at the International Association for Identification (IAI). Over the past ten years, she has taught many classes in Latent Prints, Crime Scene Analysis and Bloodstain Pattern Analysis. She has served as a Past President and Board member of the Utah IAI and on the Bloodstain Pattern Education Committee for the IAI. Karen is currently on the Technical Advisory Committee for the Latent Print discipline and serves as an external auditor for the American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB). During her spare time, she loves to read, hike, and spend time with her family and dogs.

**Elisa Farmer**

Elisa is the technical lead of the impressions section at the Utah Bureau of Forensic Services. She is also a member of the crime scene response team. She is a certified latent print examiner.

**Chad Grundy**

Chad is the Manager of the biology section for the Utah Bureau of Forensic Services and has been employed by the bureau for eight years. Chad manages the daily operations of the biology section of the laboratory. He performs serology and DNA analysis on evidence submitted to the laboratory. Chad is a member of the bureau's crime scene response team.

#### Davin Halvorsen

Investigator Davin Halvorsen has been a fire service professional for fifteen years with specialties in fire chemistry, hazardous materials, chemical and biological weapons, radiological and nuclear incident response, and post-blast investigations. Investigator Halvorsen is currently assigned to the Salt Lake Arson Task Force (SLATF) as a fire and explosion investigator. SLATF Investigators are Law Enforcement Officers with experience or training in the fire service and the specific science of fire origin and cause determination. Criminal investigations resulting from fire occurrences are then handled by SLATF Investigators who generally work a case from the initial scene, to arrest or apprehension of suspects, and finally in the criminal prosecution as expert witnesses.

#### Todd Hewitt

Todd Hewitt has been a police officer for fifteen years, fourteen of which have been spent with the Tooele City Police Department. 10 years of Todd's career have been in a variety of investigative assignments, including four years assigned to the Tooele Drug and Gang Task Force before being promoted to Sergeant. Todd currently serves at the investigations division supervisor and the Assistant Commander of the Tooele Drug and Gang Task Force. Todd is the current President of the Utah Gang Investigators Association and a UGIA certified gang professional. Todd has twice been recognized as the officer of the year and has received several awards for his services to the police department. In 2004 Todd received a Citation of Honor from the Utah Narcotics Officer

Association for his efforts in narcotics interdiction. In 2006, Todd was recognized as the Gang Investigator of the Year by the Utah Gang Investigators Association for his efforts in combating Outlaw Motorcycle Gangs.

**Bryan Holden, F-ABC, Utah Bureau of Forensic Services**

Bryan Holden has been at the Utah Bureau of Forensic Services for over four years. While there he has been trained in Controlled Substances, Crime Scene Response and the crime lab's lone Fiber analysis and comparisons. He is currently training to become the lab's lone hair analyst with hopes of finishing and beginning casework in early 2011. Bryan is also one of the instructors for the Marijuana Technician course offered to police agencies throughout the state of Utah. Bryan is also a Fellow status member of the American Board of Criminalistics in Controlled Substances. Bryan holds a Bachelor of Science degree in Forensic Science from the University of Central Oklahoma in Edmond, OK.

**Sgt. Kelly Kent**

Det. Sgt. Kelly Kent is a 25-year veteran of the Salt Lake City Police Department. She has worked in the assignments of Accident Investigation, Larceny Detective, Narcotics Detective, Domestic Violence Detective, and Homicide Detective. Kelly was the Sgt over the Special Victims Unit for 2 years before becoming the detective Sgt over the Homicide Squad.

Sgt. Kent has been involved in many of the most high profile cases in SLC, namely Anna Palmer, Elizabeth Smart, Rosie Tapia and Lori Hacking, KSL shooting, and the LDS Church Library shooting. Kelly formed and heads Salt Lake City Police Department's Child Abduction Response Team.

**Mike King**

Mike King is a National Law Enforcement Account Manager for [ESRI](#), the Environmental Systems Research Institute, a worldwide leader of GIS software. He was a Product Planning Manager for [Motorola](#), Inc. from 2004-2006. In 2004, Mike retired from full-time law enforcement and has over 28 years of service. He began his law enforcement career in 1979. After 8 years of experience with the [Ogden Utah Police Department](#), Mike became the Chief of Staff for [Weber County Attorney](#), Reed M. Richards. He served in that capacity, and as lead investigator for 8 years. While in Weber County, Mike investigated the [Zion Society cult](#), which is still considered to be one of the most successfully investigated and prosecuted cases of organized ritual abuse of children in our country's history. More than 3,000 felony counts of sexual abuse were documented in the case, with all those charged, receiving prison sentences.

In 1993, Mike became an investigator with the [Utah Attorney General's Office](#) where he investigated sexual offenses, cult activity and white-collar crimes. He was promoted to the rank of Lieutenant and eventually promoted to Chief of Staff under Attorney General Jan Graham. During this time, King was trained as a criminal profiler through the [FBI](#). He served as the co-chair of the [FBI's Violent Criminal Apprehension Program National Board](#). Mike has consulted on hundreds of complex criminal cases around the world. Additionally, he has appeared in a leading role in the Emmy Award winning production of "[The Assassination of King Tut](#)" and has worked exclusively for the Discovery Channel and A&E's History's Mysteries on the "[Curse of King Tut](#)".

Mike has authored, in part or whole, the following published books, "[Jane, A Woman's Determination and the Wild West Frontier](#)," December 2009, IQ Design, Inc., "[Predators, Who Are They and How Do We Stop Them](#)," June 2007, Prometheus Press, NY. "[Cold Case Methodology](#)," 2006, LawTech Publishing, CA. "[Profilers](#)," 2006 Prometheus Press, NY "[Who Killed King Tut?](#)," 2005, Prometheus Press, NY, and "[Analyzing Criminal Behavior](#)," 2001, IQ Publishing, UT.

He has the following published works; “[Interviewing the Incarcerated Offender Convicted of Sexually Assaulting the Elderly](#)” Journal of Forensic Nursing, Fall 2006, and, “Organizing Multi-jurisdictional Task Forces” 1999, The FBI Journal.

Mike has a Master of Criminal Justice Degree and a Bachelor of Arts Degree in Criminal Justice. He is an adjunct faculty member for the school of criminal justice at Salt Lake Community College and Weber State University. He is a member of the [Harvard Medical School Program in Psychiatry and the Law](#) (2003-present) and is a Visiting Scholar for the [School of Nursing at Boston College](#) (2005-present). He has appeared on national and international news shows, talk shows and documentaries, and has instructed law enforcement in the United States, Canada, England, Mexico, Portugal, Spain and Egypt. He is married to the former Bonnie Van Dyke of Ogden Utah and they are the parents of three children.

## **Nathan Lefebvre**

Nathan Lefebvre has been with the University of Tennessee National Forensic Academy since September, 2002. His full-time responsibility is the management of the ten-week National Forensic Academy, Lefebvre plans and prepares for the program's signature hands-on practical instruction, he oversees the day-to-day functions of program delivery while at the same time identifying and meeting the needs of the NFA students and instructors.

In addition to his work with the core ten-week NFA program, Lefebvre also coordinates related 40-hour traveling forensic training courses to sites across the country. Lefebvre holds a Master's degree in Education from the University of Tennessee. e-mail: [nathan@tennessee.edu](mailto:nathan@tennessee.edu); ph: 865.946-3237

The University of Tennessee  
Law Enforcement Innovation Center  
105 Student Services Building  
Knoxville, TN 37996

## **James May**

James May is a Detective and Forensic Investigator for the Tooele City Police Department in Utah. He began his career in law enforcement in April 1993, working for Sandy City Police Department. Since that time he has worked with several other law enforcement agencies, signing on with Tooele City PD in November 2005. James has expertise in evidence handling, including retrieving, maintaining, and preserving evidence vital to criminal investigations. He is also trained in a variety of forensic disciplines, most notably Crime Scene Investigations and Infant Death Investigations. In January of 2004, James' work was recognized by the Center for Disease Control and was asked to co-author their book entitled "Sudden, Unexplained Infant Death Investigation." James also serves as an instructor of various courses involving forensic investigations. James served as a board member for the Utah Division of International Association for Identification from 1998 to 2009. James is also presently serving

on the Editorial Board for The Journal of Forensic Identification and the President of the Utah Forensic Divers Association.

**Jennifer McNair**

Jennifer McNair has worked for the Utah Bureau of Forensic Services for 16 years. She manages the chemistry section of the laboratory where scientists analyze controlled substances and various types of trace evidence. Ms. McNair herself is an expert in the analysis of controlled substances, fire debris, and paint. During her career at the laboratory, she has been involved in the analysis of a variety of cases where trace evidence has played an important part in investigations and prosecutions.

**Sgt. April Morse**

Sgt. April Morse has been with the Salt Lake County Sheriff's Office for fourteen years. She began working with police service dogs when she was assigned to the DEA Metro Narcotics Task Force where she worked a narcotics dog. During that time she was asked to be a part of Utah Task Force One where she ran a live find rescue dog. Sgt. Morse transferred from her narcotics assignment to the Salt Lake County Sheriff's Office where she joined forces with Carbon County forming a Cadaver Dog Team. Since that time the cadaver dog team has deployed on nearly a hundred cases, both homicides and missing persons. She continues to work as a team leader for the cadaver dog team and currently runs two service animals.

## **Detective Todd Park**

Todd Park has been a Police Officer since January 1984. He started his career in Wyoming where he rose to the rank of Sergeant. During his 12 years in Wyoming, he investigated both property and person crimes. In 1996, he moved to Salt Lake City where he worked as a Patrol Deputy for the Salt Lake County Sheriff's Department until 1997. He was transferred into Juvenile Sex Crimes where he investigated several high profile juvenile sexual assault crimes. In 1998, he was transferred to Burglary for a few months. He was then transferred to the Homicide Unit in November 1998 where he remains.

In 2004, Detective Park started working on Cold Case Homicides exclusively. He remains in this position. He has consulted on several homicides around the State of Utah and across the United States. He is currently a member of the Utah Technical Assistance Program (UTAP) which is run through the Attorney General Office. He sits on the board which examines Cold Case Homicides and gives the case manager ideas and investigative techniques to work on the case.

Detective Park is also a member of the Vidocq Society. This is a "think tank" of many professional disciplines, which analyzes a cold case homicide and gives the investigators ideas and investigative techniques to work on their case. The Vidocq Society has international recognition in assisting with working on and solving cold case homicides and membership is by invitation only. Detective Park has taught several homicide investigation classes and cold case homicide investigation classes. He has taught in the state of Nevada and Utah, and has travelled to Tennessee to assist with the Vidocq Society in listening to approximately 15 cold case homicides from around the south east part of the United States.

Detective Park has received several awards which include Deputy of the year in 2006 for the Salt Lake County Sheriff's Department and the State of Utah. He has been on national television shows like Forensic Files and Extreme Forensics. He is currently filming several local news stories involving current cold case investigations he is investigating.

Detective Park has investigated or been involved with the investigation of over 400 death cases. He has used cutting edge technology like Hair Isotopes Analysis to give a geographic location of an unidentified female. He has used other sciences like blood spatter, GSR, DNA, fingerprinting, and paint identification to solve a host of homicide cases.

### **Cordon Parks**

Det. Cordon Parks is a 32-year veteran of the Salt Lake City Police Department. Cordon has worked as an investigator in such assignments as Training, Burglary, Financial Crimes. Cordon is currently working in the Homicide Squad and has been involved in such cases Anna Palmer, Elizabeth Smart, Rosie Tapia and Lori Hacking.

### **Michael Perkins**

Mike is a Crime Scene Supervisor with the Las Vegas Metropolitan Police Department in Nevada. He has twenty-two years of experience in crime scene investigation, and has taught classes in bloodstain documentation, footwear/tire track documentation, and digital crime scene photography. He is currently an IAI Distinguished Member, is on the JFI Editorial Review Board, as well as participating on state certification boards. Mike is certified as a Senior Crime Scene Analyst, Latent Print Examiner, Forensic Photographer, and Bloodstain Pattern Examiner. He is a member of the IAI Bloodstain Certification Committee. He also has been a member of the LVMPD Search & Rescue Scuba Diving Team for three years.

### **Marian M. Price**

Marian has been employed by the Federal Bureau of Investigation (FBI), Criminal Justice Information Services (CJIS) Division since January 1999. She first served as an internal training instructor, teaching a variety of computer applications. In July 2002, Ms. Price accepted a position as a law enforcement training instructor and has taught classes on the Universal Latent Workstation software, the Joint Automated Booking System, Civil Applicant System, and the Uniform Crime Reporting/National Incident-Based Reporting System. Prior to her career in the FBI, Ms. Price received a Bachelor of Arts degree in secondary education from Fairmont State University in Fairmont, West Virginia. Upon graduation, she taught in the West Virginia state school system where she served as a mathematics and computer instructor.

### **Paul Rimmasch**

Graduated 1997 Weber State University Criminalistics major/Photography minor  
Weber-Metro CSI 1997-present  
IAI Certified Latent Fingerprint Examiner  
IAI Certified Forensic Photographer  
Utah representative to the **Western Identification Network** latent fingerprint Committee  
Current Chairman of the WIN Latent Committee  
Member of the Utah Division of the IAI certification Committee  
Jan 2005 Hurricane Katrina recovery- field photographer with DMORT/FEMA  
Father of three  
avid hiker and gardener

**Detective Sergeant First Class Howard J. Ryan**

DSFC Ryan has been with the New Jersey State Police for twenty-three years. He is currently assigned to the North Crime Scene Investigation Unit as the Unit Supervisor awaiting promotion to the rank of Lieutenant and is responsible for overseeing the activities of detectives performing crime scene investigative tasks. DSFC Ryan has fifteen years of crime scene investigative experience specializing in death scene investigations, shooting reconstruction, blood stain pattern analysis, laser measurement/ CAD software and latent print development and identification. He has testified as an expert witness in latent print processing and identification, bloodstain pattern analysis and crime scene investigation in New Jersey Superior Court.

DSFC Ryan is a certified Police Training Commission instructor and coordinator for the New Jersey State Police Crime Scene Investigation Course. DSFC Ryan is a member of the Attorney General's Forensic Science Commission - Crime Scene Investigation Subcommittee and holds the office of President in the New Jersey State Division, International Association for Identification. He has provided instruction on a wide range of crime scene related topics at University of Tennessee National Forensics Academy, Northwestern University, Rutgers University, Sussex County College, the New Jersey State Police Academy as well as the Federal Bureau of Investigation, county and local police departments throughout New Jersey. New Jersey State Police and an instructor for the University of Tennessee National Forensic Academy.

**Jason Snow**

### **Theresa F. Spear**

Terry Spear has more than 25 years of experience in the field of forensic science. She has processed crime scenes, examined physical evidence and testified as an expert witness in DNA typing, serology, trace evidence analysis, and crime scene processing. As Chief Criminalist, Terry Spear supervised the Major Case Unit at the Santa Clara County Crime Laboratory. While she was the Biology Program Manager for the Department of Justice's California Criminalistics Institute. Terry was responsible for providing training to state and local crime laboratory staff in the detection, identification and characterization of biological evidence. Since retiring from the California Department of Justice in 2005, Terry continues to work for a variety of government agencies as a Forensic Consultant.

### **Dr. Norman "Skip" Sperber, DDS**

Dr. Norman "Skip" Sperber, DDS began his forensic career in the Toxicology department of the N.Y.C. Chief Medical Examiner's Office in 1946. Since that time, he has served as a Dental Officer in the U.S. Navy for many years (2 1/2 years active and additional reserve duty), and has practiced general dentistry for fifty four years. With two other dentists, he established the first state dental identification system in the U.S. (California) and as a result of a U.S. Congressional appointment, he established the first National Identification System (NCIC) in cooperation with the FBI. He has testified to forensic evidence in over 215 trials, and has examined evidence in the Ted Bundy, Danielle Van Dam, and Jeffrey Dahmer cases. He has also spent ten days at Ground Zero, helping to identify the victims of the 9/11 terrorist attacks. He is a fellow of the American College of Dentistry, a Diplomat of the American Board of Forensic Odontology, and in 2000, along with another dentist, became the first Distinguished Fellow from the dental section of the American Academy of Forensic Sciences.

Dr. Sperber is likely the most well-known and respected Forensic Dentist in the country. He has been serving law enforcement for the last 20 years in addition to acting as a reserve deputy sheriff and criminalist, and has investigated more than 2,100 cases worldwide.

Dr. Sperber is also the Chief Forensic Dentist for the California Department of Justice and San Diego and Imperial Counties in California. In addition, Dr. Sperber consults with the FBI's National Crime Information Center, and the San Diego Sexual Assault Response Team.

**Henry Templeman, CLPE**

Henry Templeman has worked in the field of fingerprints for over 24 years, has taught numerous classes in fingerprints, and has qualified as an expert witness numerous times in US District and State of California city and county superior courtrooms. He is a Certified Latent Print Examiner (CLPE) and Certified Crime Scene Analyst (CCSA) by the International Association for Identification. Henry Templeman is currently employed as a Senior Latent Print Examiner at the City of San Jose Police Department Central Identification Unit.

**Kent Timothy**

Kent is currently employed with the City of Henderson Nevada Police Department working in the Criminalistics Bureau as a Latent Print Examiner, He is certified by the International Association for Identification as a Senior Crime Scene Analyst, Latent Print Examiner and Footwear and Tire track Examiner. He has been working for 30 years in Law Enforcement starting as an Officer in West Valley City Utah in 1980 and has been learning the techniques of scene investigation and evidence analysis since then. Mr. Timothy has also testified numerous times as an expert in fingerprint and footwear evidence in State and Federal Courts in Utah and Nevada and can discuss some of those events.

**Mandi VanBuren**

Mandi Van Buren is currently a Senior Forensic Scientist working for the Utah State Crime Laboratory in the Biology and Chemistry sections. She has been working DNA and serology cases for 4 years and controlled substance cases for 1 year. Mandi has a Masters degree in Pharmacology with a concentration in Drug Chemistry from the University of Florida and a Bachelors of Science degree in Biology with a minor in Chemistry from the University of Tampa. Mandi is actively involved in the crime laboratory's crime scene response team as well. Mandi is originally from California, grew up in Rhode Island and made way to Utah to pursue her career in forensics.

### **Doug Young**

Doug Young is a Sr. Criminalist with the Thornton Police Department in Thornton, Colorado. Prior to moving to Colorado, Doug served as the Chief of Police/Crime Scene Investigator with the Oakland City Police Department in Oakland City, Indiana, a Sr. Crime Scene Specialist with the Austin Police Department in Austin, Texas and a Deputy Sheriff with the Gibson County Sheriff's Department in Princeton, Indiana. Doug has been a crime scene investigator for 18 years and graduated cum laude from Vincennes University in Indiana.

Doug is an active member with the International Association for Identification, the Rocky Mountain Division of the IAI, and the Rocky Mountain Association for Bloodstain Pattern Analyst. Doug serves as a member of the Crime Scene Certification Committee for the Rocky Mountain Division of the IAI. He is also certified by the IAI as a Crime Scene Investigator and is a recognized expert in the State of Colorado in the areas of Crime Scene Investigation, Fingerprint Analysis and Examination, and Bloodstain Pattern Analysis. Doug has lectured both domestically and internationally on a variety of crime scene related topics. Doug is the owner and operator of Triad Forensics LLC.