98th International Educational Conference

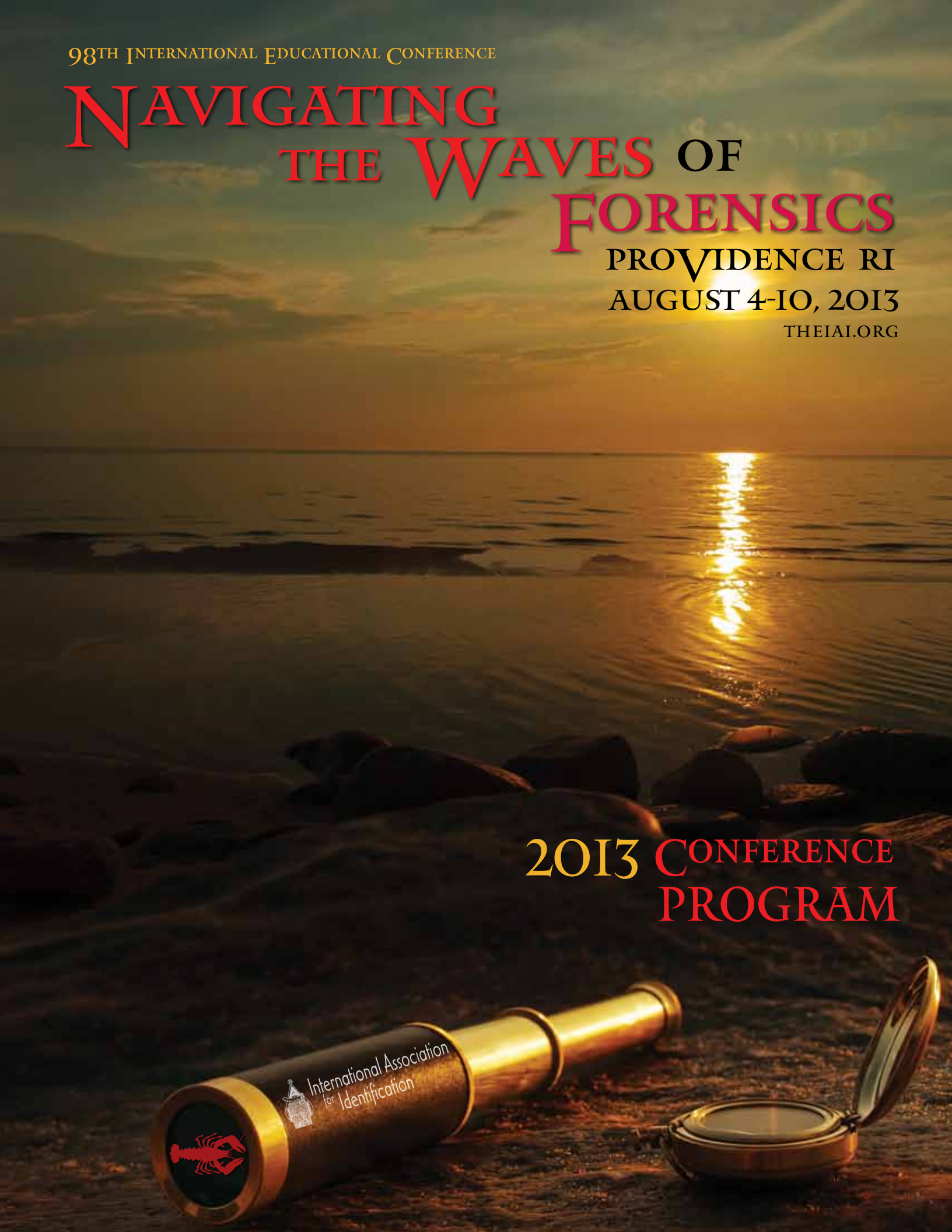
Navigating the Waves of Forensics

Providence RI

August 4-10, 2013

theiai.org

2013 Conference Program



DNA•FACIAL RECOGNITION•FINGERPRINT•FINGERVEIN•IRIS•PALMPRINT•TATTOO

Leading The Way in Criminal Justice

MORPHO LIGHTS THE WAY The technology and performance trusted by FBI NGI for 10-print, latent, and RISC fast-ID matching and over 50% of State and Local Law Enforcement, is at the heart of every MorphoTrak Criminal Justice System. The proven, reliable provider of interoperable AFIS: **MorphoTrak - Trusted by the best for over 35 years.**

Visit MorphoTrak booth 503

www.MorphoTrak.com or call 1.800.601.6790

SAFRAN
Morpho

International Association for Identification

Welcome all to Providence, Rhode Island, and the 98th Annual Educational Conference for the International Association for Identification. It is an honor to have you join us this week to experience specialized training, leading edge technologies, and professional exchange with dedicated professionals from around the world. The IAI has a unique opportunity to reach over 7,000 members representing 77 countries 52 Divisions through the Association's global network of professionals. The mission is to associate professionals actively engaged in the scientific examination of physical evidence, improve the science within each discipline, educate members on the latest technologies and advances within the scientific community and publish in the IAI publications. Both the publications and annual conference have been an essential source of communication and training for members, academic partners and researchers around the world.

This year's theme is ***"Navigating the Waves of Forensics"*** as we continue to expand forensic technologies, international networks and specialized expertise to combat the changing crimes committed today with a myriad of sophisticated technologies, tools and expertise to keep the local neighborhoods safe.

Please review the IAI members area www.theiai.org/member/index.php for a final summary of this year's accomplishments and current events. With the creation of new committees and liaison positions within the IAI and the announcement for the National Commisson on Forensic Science, I anticipate that 2013-2014 will bring excitement within all disciplines throughout the community.

A very special thank you this year to the IAI Conference planning committee, the IAI Office, and the New England Division for volunteering their talent and time to make this conference a memorable experience for members, participants and their families. And a note of gratitude to John Grassell, Special Advisor to the Executive Board for leading the local planning activity and coordination.

I look forward to seeing you in Providence, the "Creative Capital" with a friendly small town, historic atmosphere, along with the culture, hip and sophistication of a big city. www.goprovidence.com/ Stop by and experience Waterfire scheduled for the week.

In closing this 2012-2013 year as President, I thank each one of you for continuing your membership with the International Association for Identification and encourage you to return each year as a member to actively engage with other professionals throughout the forensic community. Thank you for your commitment to one of the largest and diversified network of professionals in the nation.

Respectfully,

Deborah A. Leben

Deborah Leben, IAI President 2012-2013

Like us on Facebook

For more information about the IAI, please visit the IAI webpage www.theiai.org and the IAI Face Book www.facebook.com/pages/The-International-Association-for-Identification/161831730556192?fref=ts

L.P. CERT. COMPARISON PRACTICE TEST
NOW AVAILABLE FOR IMMEDIATE PURCHASE

ONE SIZE DOES NOT FIT ALL!

MULTI-LEVEL COMPETENCY TESTING FOR LATENT PRINT EXAMINERS

Are you preparing to hire a latent print examiner trainee and need help with pre-employment testing? Are you preparing to take the IAI Latent Print Certification Examination and not sure that you are ready? Is your trainee ready to move on to supervised casework? Is your agency attempting to fill a vacant Technical Lead / Supervisor position and want to assess the candidates' skills? If your answer to any of these questions is yes, we have the right solution for you! No one test can answer all of these questions, but our multiple levels of competency testing can! We firmly believe that every agency and individual can benefit from these tests. That said, we understand that choosing the right test is vital to what is being measured. We at RS&A understand that "one size does not fit all," so if we don't offer it, we will build it. The only solution that fits is RS&A! Contact us today for more information or to discuss which test will fit your needs.

Scan to download RS&A Contact Info

Official Corporate Sponsor of the IAI Centennial Conference

RS&A, INC.

Ron Smith & Associates, Inc. 1-866-832-6772 www.RonSmithandAssociates.com

International Association for Identification

WELCOME TO PROVIDENCE!

On behalf of the members of the New England Division of the International Association for Identification (NEDIAI), it is my pleasure to welcome all of you to Providence, Rhode Island for the 98th International Conference. The New England area has hosted the IAI Conference on three previous occasions: 2006 (Boston, MA), 1997 (Danvers, MA) and way back in 1922 in Boston, MA. I feel confident the "Littlest State in the Union" is up for the challenge and excitement of this year's exciting Conference.

The International Association for Identification and the NEDIAI Board of Directors have worked tirelessly to ensure that the Conference and it's associated workshops and social functions will be informative and enjoyable. I encourage all to use this opportunity to expand our knowledge and gain invaluable contacts within the forensic community. With most departments facing tight budgets the IAI Conference remains one of the biggest "bargains" with its expansive and varied training opportunities.

I encourage all attendees to visit the vendor area and take the time to see some of the new and exciting forensic technology available. While there, please thank the vendors for their great support which allows us to host these Conferences. Additionally, please stop by the NEDIAI booth with any questions and to meet our members. I also encourage you to take the time and visit the many cultural, historical, and scenic destinations that Providence and the State of Rhode Island have to offer. From it's great dinning opportunities to fabulous beaches I am sure that attendees will be pleased with this year's venue.

Again, it is our honor to host this year's IAI Conference. I hope that your valuable time away from work and family is well-spent, informative, and filled with great memories.

John H. Grassel
President NEDIAI

Recognized by his peers as a master storyteller and a brilliant comedian.

Breakfast and Opening Ceremony

Monday, August 5, 8:00 a.m.

Rhode Island Convention Center

Sponsored by

NEC

NEC is sponsoring a full-breakfast on Monday morning, 8:00 a.m.

At 9:00 a.m. following breakfast, we will gather for the Conference Opening Ceremony where you'll have an opportunity to hear greetings from local, regional and state dignitaries as well as a fabulous keynote speaker.

There's no better way to start the week than with a motivational speaker like Steve Gilliland. A successful businessman who will show how to expand your professional life by teaching you to rethink your work, your relationships, and yourself; in order to become "purpose-driven" rather than "process driven".

Steve is one of the most in-demand and top-rated speakers in North America as well as an accomplished author. His book Enjoy the Ride has been on the publisher's best-seller list for five consecutive years. He not only challenges individuals to change but motivates them to do so as well.

REGISTRATION HOURS

Sunday	**August 4th**	Noon – 8:00 p.m.
Monday	**August 5th**	6:00 a.m. – 8:00 a.m.
		11:00 a.m. – 6:00 p.m.
Tuesday	**August 6th**	7:00 a.m. – 2:00 p.m.
Wednesday	**August 7th**	7:00 a.m. – 2:00 p.m.
Thursday	**August 8th**	7:00 a.m. – Noon

SPEAKER CHECK IN

Sunday	**August 4th**	Noon - 8:00 p.m.
Monday	**August 5th**	6:00 a.m. – 8:00 a.m.
		11:00 a.m. – 6:00 p.m.
Tuesday	**August 6th**	7:00 a.m. – 5:00 p.m.
Wednesday	**August 7th**	7:00 a.m. – 5:00 p.m.
Thursday	**August 8th**	7:00 a.m. – 5:00 p.m.
Friday	**August 9th**	7:00 a.m. – Noon

Like us on Facebook

EXHIBIT HOURS

Tuesday	**August 6th**	9:00 a.m. – 8:00 p.m.	Exhibits Open
		4:00 – 7:00 p.m.	Poster Presentations, Photo Contest, and Reception
Wednesday	**August 7th**	8:30 a.m. – 3:00 p.m.	Exhibits Open New England Market - local vendors offering their products.

The IAI does not endorse any product or service of any advertiser, exhibitor, vendor, sponsor, speaker or provider.

Namebadges must be worn for all Educational Sessions and Social Events.

CrimeScope® Laser

One Unit, Multiple Wavelengths, Multiple Possibilities

The most versatile Laser ever used for forensic applications with 5 wavelengths including a searching wavelength and the most unique White Light Source available. The CrimeScope® Laser provides results that no other laser or forensic light source can provide.

The CrimeScope® Series is renowned for its versatility.

The NEW CrimeScope® Laser continues this tradition, allowing the user to move beyond just fingerprints and fluorescent dyes. With multiple wavelengths providing true background rejection; body fluids, trace evidence, bruising, bone fragments, gunshot residues, and even shoe impressions are all visible.

Visit our website to read more about the future of the Forensic Light Source.

CrimeScope® 20 years

SPEX FORENSICS

www.spexforensics.com/laser
732-623-8335

2013 IAI Conference Mobile App

NOW AVAILABLE!

Scan

Redeem Code

98IAI

Instructions to Download the 2013 IAI Conference Mobile App

On iOS (iPhone, iPad):

1. Download the Guidebook app by going to the App Store and searching for "Guidebook."
2. Open the Guidebook app. After the short tutorial, tap "Download Guides" on the bottom of the screen.
3. Tap "Redeem Code" on the bottom of the screen.
4. Type in 98IAI. You'll get the guide download automatically.

On Android:

1. Download the Guidebook app by going to the Play Store and searching for "Guidebook."
2. Open the Guidebook app. After the short tutorial, tap the button with three vertical dots on the upper-right corner.
3. Tap "Redeem," and type in 98IAI. Your guide automatically downloads after you type in your redeem code.

On other devices (Windows Phone, BlackBerry, PCs):

1. Open the Internet browser on your device and enter in the Guidebook mobile site address, at http://m.guidebook.com/.
2. Click "Redeem" on the upper-right and then type in 98IAI.
3. When your guide loads, you will be able to use it just as you would any guide on Guidebook's mobile app. Remember to bookmark this page because you cannot download it.

Support: (650) 319-7233

guidebook

“It’s wonderful that a person actually answers your calls and not some long, automated phone system! I’ve been a happy Tracker user for five years, and I’m looking forward to many more!”

Kristi Johnson

Kristi Johnson, Evidence Technician, Harrison County Sheriff’s Office – Gulfport, MS

Professionals like Kristi Johnson rely on AFIS-APIS systems every day. They know that not all companies are equal when it comes to customer service and tech support.

If you’re procuring an AFIS-APIS for your agency, great technology is a given. But no print-matching algorithm no matter how sophisticated will help you close a case if the system is down. Forensic technicians at over 300 police departments, sheriff’s offices, and correctional facilities count on AFIX Tracker every day. Their experience proves that we provide outstanding training, so your forensic technicians will be able match prints accurately and efficiently from Day 1, and that we provide live, expert tech support that keeps the hits coming day after day, year after year. Investigate AFIX Tracker. You’ll find that we match sophisticated technology with on-site training, great customer service and responsive tech support. Let us provide the proof.

AFIX Technologies, Inc.®

Call for information | 620 232 6420

www.afix.net

STUDENT REGISTRATION

To qualify as a Student Registrant, individuals must be full-time students, not gainfully employed by a law enforcement agency, and provide a letter of authorization from the dean or their professor on school letterhead. This letter must accompany the registration. A Student Registrant receives all benefits of the Full Registration with the exception of the Friday-night Banquet. Tickets may be purchased separately for the Banquet.

Classes that would be of interest to students are indicated with the as determined by the Student Advisory Committee. While these classes are suggestions, students should feel free to go to any available class or workshop that interests them. Please note that workshops may have additional fees attached.

SOCIAL REGISTRATION

There will be staff available for Social Registration during the Conference registration hours listed on page 4. Social Registration includes the Sunday President's Reception, Monday Breakfast and Opening Ceremony, Tuesday-night Poster Presentation/Photo Contest and Reception, Wednesday-night Dinner & Social, and Friday-night Installation Banquet.

FIRST-TIME ATTENDEES

First-time Attendees of the Conference will have an opportunity to meet the Conference Staff as well as their fellow first–time attendees on Sunday, August 4th at a Special Reception sponsored by Ron Smith & Associates. This is your chance to ask questions about what to expect during the week as well as build contacts and meet people that you'll be seeing during the week.

ABOUT THE IAI

The International Association for Identification is a professional membership organization comprised of individuals worldwide who work in the field of forensic identification. With over 7,000 members from 77 countries, the IAI remains the oldest and largest forensic science/identification association in the world..

RECORDING POLICY

It is the policy of the IAI that recording by means intended to capture images, video, audio, or a combination thereof of any lecture, workshop, or other IAI sanctioned proceeding shall be prohibited without the expressed written consent of the IAI. All requests shall be made in writing and forwarded to the Chief Operating Officer for consideration by the President, Chairman of the Board and or Board of Directors. This policy is in no way intended to prevent the occasional photograph that may be taken during the course of a presentation provided that the instructor has given approval prior to such photograph being taken.

BUSINESS MEETING

The IAI's Annual Business Meeting will be Friday, August 9th at 1:00 p.m. ALL members of the International IAI are encouraged to attend. This is the annual business meeting of the Association where officers for the next year are elected and other business is conducted.

Namebadges must be worn for all Educational Sessions and Social Events.

Thank You to Our Vendors...

We would like to thank the following for their support of the IAI's Educational Program:

Accutrans
Adorama Camera
American Association for Laboratory Accreditation (A2LA)
Arrowhead Scientific
BlueStar Forensics
Evident
Forensic Pieces
Forensics Source
Lynn Peavey Company
Paul Chamber of Air Science
Ron Smith and Associates
Sirchie Fingerprint Laboratories
SPEX Forensics
Ultronics

Conference Social Events

FIRST-TIME ATTENDEES
Omni Providence Ballroom 3rd Floor - Sunday, August 4th, 6:00 – 7:00 p.m.

First-time Attendees of the Conference will have an opportunity to meet the Conference Staff as well as fellow first-time attendees at a special reception. The reception offers a chance to ask questions about what to expect during the Conference as well as build contacts and meet people that you'll be seeing during the week.

Sponsored by

RS&A, Inc.

PRESIDENT'S WELCOMING RECEPTION
Omni Narragansett Ballroom 1st FLoor - Sunday, August 4th, 7:00 p.m.

IAI President Deborah Leben welcomes Conference attendees to the 98th International Educational Conference. You'll meet President Leben and the IAI's Officers for this year's Conference. It is also an opportunity to see the friends that you've developed over the past conferences as well as meet new colleagues. This event is always a terrific kick-off to the week's activities and the year will be no exception..

Sponsored by

SIRCHIE®

Exhibitors' Reception
Tuesday, August 6th, 4:00 – 7:00 p.m.

Tuesday night offers an action-packed reception in the exhibit hall. There will be poster presentations covering topics in the field of identification, crime scene search, as well as historical events relevant to identification. Additionally there will be student poster presentations and a full photo contest where forensic and creative entries will be on display.

Sponsored by

AFIX Technologies, Inc.

Bevel, Gardner & Associates Inc.
A forensic education and consulting group.

TRITECH FORENSICS
identify. collect. preserve.

COGENT
a 3M Company

3M

STUDENT POSTER SESSION

Students – this is an opportunity that you don't want to miss. You'll have the chance to win a cash scholarship for your presentation. This is the same format and will be held at the same time as the regular Poster Presentations (see above). Topics in the field of identification, crime scene search, or items of historical importance to identification are appropriate.

Sponsored by

EVIDENT
Crime Scene Products

PHOTO CONTEST SESSION

This annual event allows the opportunity for all to participate. There are categories for either "forensic" or "creative" photographic entries.

Sponsored by

ForensicPieces.com
Learn from the Forensic Authority

CLOSING BANQUET
Rhode Island Convention Center Ballroom 5th Floor
Friday, August 9th, 6:30 p.m.

The Closing Banquet and Installation of new officers is always a tremendous evening. It's an opportunity to recap the event-filled week, enjoy a wonderful meal, support the incoming officers that you elected at that day's business meeting, and sadly say goodbye to your friends until next year. Don't miss this wonderful finale to the 98th International Educational Conference.

Conference Social Events

Mid-Week Dinner Social

The IAI takes over downtown Providence City Center!!

Wednesday, August 7, 2013
City Event Center, 6:30p.m.

This is the time to de-stress from the rigors of a week in the classroom.
Sponsored by MorphoTrak – this event always promises to be a great time.

Casual attire required!

Sponsored by SAFRAN Morpho

NEW this Year!!
New England Market

Wednesday, August 7th
8:30 a.m. – 3:00 p.m. in the Exhibit Hall.

Local vendors will offer the opportunity to see their products and souvenirs. This offers you one-stop-shopping for New England items to take home after the Conference.

Serving the Law Enforcement Community since 1927 as the source for quality products, customized vehicles, and hands on training, Sirchie is the Global Leader in Criminal Investigation Solutions.

LABKAM® Laboratory RUVIS Capture System

FOCOS2™ Dual Camera Forensic Optical Comparator/Examination Station

SIRCHMARK™ Evidence Marking

Ridge PRO
Fingerprint Magnifier

Ductless Latent Print Dusting Stations

Evidence Collection and Mobile Command Vehicles

On-site and Off-site Forensic Training Courses

VISIT US IN BOOTH 513

SIRCHIE® Products ▪ Vehicles ▪ Training
New Extended Hours: 8am - 8pm EST (Mon-Thurs) • 8am - 7:30pm EST (Fri)
Phone: (919) 554-2244, (800) 356-7311
Email: sales@sirchie.com
www.sirchie.com

The IAI is Grateful for our Sponsors:

SAFRAN

Morpho

NEC

COGENT

a 3M Company

3M

RS&A INC.

SPEX FORENSICS

AFIX Technologies, Inc.®

SIRCHIE®

EVIDENT

Crime Scene Products

TRITECHFORENSICS

identify. collect. preserve.

ForensicPieces.com

Learn from the Forensic Authority

Bevel, Gardner & Associates Inc.

A forensic education and consulting group.

Coherent's TracER™ forensic laser illuminates evidence detail not easily seen by other means. The result is an incredible, high contrast image that clearly shows the fluorescing evidence. I have never seen a more powerful light source in operation.

PEAK PERFORMANCE

DON'T SETTLE FOR INFERIOR LASERS

For more than 40 years Coherent has set the standard in forensics lasers. The TracER™ is the industry standard today - competitive lasers are not equivalent. With a proven industry track record of power and performance in federal, state and private facilities, the Coherent TracER™ laser is simply the best laser available for latent print and trace evidence examination. The TracER™ is the only forensics laser deployed to mobile forensics labs in combat zones around the world.

THE DIFFERENCE

THE COMPETITION

Other laser systems combine multiple laser diodes to match the power of the TracER. But this approach results in spectral bandwidth that could be 20 times broader than the TracER, and a spectral peak that can shift over ambient temperature and lifetime. This results in inconsistent fluorescing of evidence when attempting to photograph.

THE TRACER

Our 532nm TracER based upon Coherent's Optically Pumped Semiconductor Laser technology delivers high power and high spectral intensity for the greatest contrast ratio and image quality, which gives you more identifiable prints.

PART# A-1143728

- Locate fingerprints, fibers, biologicals, drug residue & more
- Reveals trace evidence even in bright ambient light
- Multifunction hand-piece for optimal performance
- Enhanced fiber optics for uniform illumination
- Mountable hand-piece for hands free use
- Industry standard for more than 40 years
- Validated by NFSTC Research
- "Exchange" warranty service
- CDRH compliant

WHICH PRINT WOULD YOU RATHER BACK IN COURT?

Images of latent prints on white paper treated with DFO and photographed using identical filters and exposure time.

*Independent study by a federal agency

CALL OR EMAIL US TODAY & REQUEST A FREE INFORMATION PACKET WITH PRODUCT INFORMATION, VIDEO, AND GRANT INFORMATION.

ARROWHEAD FORENSICS
www.arrowheadforensics.com
info@arrowheadforensics.com
PHONE 800.953.3274

EVIDENT

Crime Scene Products

LOWEST PRICES - HIGHEST QUALITY PRODUCTS
BEST CUSTOMER SERVICE - FORENSIC EXPERTISE

ORION-LITE®

Dye Stains

BrightBeam™ Lasers

Privacy Screens

Flocked Swabs

Security Tags

INK BUSTER™

Latent-PRO®

Photo Cones

Visit the EVIDENT booth for a copy of our new 2013 Catalog #15

1-800-576-7606

www.EvidentCrimeScene.com

www.TacticalEvidence.com

contact@evident.cc

Bevel, Gardner and Associates, Inc.

A forensic education and consulting group

Bevel, Gardner and Associates Inc. is the largest independent forensic consulting company in the US that specializes in:

- Incident Reconstruction
- Bloodstain Pattern Analysis
- Shooting Incident Reconstruction
- 10 Different Forensic Training Courses
- Court Qualified Expert Testimony
- Mentorship
- Proficiency Testing

Visit our website at www.bevelgardner.com
or call 405-447-4469 for more information

MEETINGS

Friday - August 2, 2013

Time	Room	Meeting
8:30am – 5-00pm	Omni Hotel 3rd floor-South County	Board of Directors* Kevin Lawson, Chair

Saturday - August 3, 2013

Time	Room	Meeting
8:30am – 5:00pm	Omni Hotel 3rd floor-Newport	Tenprint Certification Board* Kevin Burke, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor- Executive Boardroom	Crime Scene Certification Board* Domingo Villarreal, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor - Blackstone	Latent Print Certification Board* Steve Howard, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor-South County	Board of Directors* Kevin Lawson, Chair

Sunday - August 4, 2013

Time	Room	Meeting
8:30am – 4:30pm	Omni Hotel 3rd floor-South County	Board of Directors* Kevin Lawson, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor - Washington	Bloodstain Pattern Analyst Certification Board* Michael Van Stratton, Chair
8:30am – 5:00pm	Omni Hotel 3rdfloor - Newport	Tenprint Certification Board* Kevin Burke, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor- Executive Boardroom	Crime Scene Certification Board* Domingo Villarreal, Chair
8:30am – 5:00pm	Omni Hotel 3rd floor - Blackstone	Latent Print Certification Board* Steve Howard, Chair
1:00pm – 5:00pm	Omni Hotel 3rdfloor - Kent	Footwear / Tiretrack Certification Board* Rodney Schenck, Chair
6:00pm – 7:00pm	Omni Hotel Providence Ballroom	Orientation and Reception for 1st Time Attendees
7:00pm	Omni Hotel Narragansett Ballroom	President's Reception President Deborah Leben

Monday - August 5, 2013

Time	Room	Meeting
8:00am – 9:00am	Convention Center 1st floor – Exhibit Hall A	Opening Ceremony Breakfast
7:30am – 8:30am	Omni Hotel 3rd floor – South County	Science and Practice Committee Breakfast* Harold Ruslander, Chair (Invitation only)
9:00am – 10:30am	Convention Center 5th floor – Ballroom A	Opening Ceremonies President Deborah Leben Opens 98th International Educational Training Conference
11:00am – Noon	Omni Hotel 3rd floor - Newport	Student Orientation* Dean Bertram, Chair
11:00am – 5:00pm	Omni Hotel 3rd floor-South County	Board of Directors* Kevin Lawson, Chair
1:00pm – 3:00pm	Omni Hotel 3rdfloor - Newport	Tenprint Certification Board* Kevin Burke, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor- Executive Boardroom	Crime Scene Certification Board* Domingo Villarreal, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor - Washington	Latent Print Identification Subcommittee* Melissa Gische, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor - Kent	Footwear / Tiretrack Certification Board* Rodney Schenck, Chair

* Meeting closed to membership

MEETINGS

Monday - August 5, 2013 (continued)

Time	Room	Meeting
1:00pm – 5:00pm	Omni Hotel 3rd Floor - Bristol	Footwear / Tiretrack Examination Subcommittee* Michael Gorn, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor - Blackstone	Latent Print Certification Board* Steve Howard, Chair
3:00pm – 4:00pm	Omni Hotel 3rdfloor - Newport	Tenprint Certification Board Kevin Burke, Chair
4:00pm – 6:00pm	Omni Hotel 3rdfloor - Newport	Tenprint Identification Subcommittee Nancy Clark, Chair

Tuesday - August 6, 2013

Time	Room	Meeting
7:30am – 9:00am	Convention Center 5th floor - Rotunda	Past President's Breakfast* Hosted by Kevin Lawson
8:00am – 1:00pm	Omni Hotel 3rd floor- Newport	Crime Scene Certification Testing
9:00am – Noon	Convention Center 5th floor - Rotunda	Nominating Committee Philip Sanfilippo, Chair
9:00am – Noon	Omni Hotel 3rd floor – South County	Professional Programs Quality Assurance Governing Board Robert Garrett, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor - Washington	Questioned Documents Subcommittee Ron Emmons, Chair
1:00pm – 5:00pm	Omni Hotel 3rdfloor - Kent	Footwear Certification Board* Rodney Schenck, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor- Executive Boardroom	Latent Print Certification Board* Steve Howard, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor-South County	Board of Directors* Kevin Lawson, Chair
4:00pm – 7:00pm	Convention Center 1st floor – Exhibit Hall A	Poster Presentation and Photography Contest Karen Cooper, Chair

Wednesday - August 7, 2013

Time	Room	Meeting
7:00am – 9:00am	Convention Center 5th floor - Rotunda	IAI Divisions Secretary's Breakfast* COO Glenn Calhoun, Chair
8:00am – Noon	Omni Hotel 3rd floor - Washington	Forensic Photography Certification Testing
8:00am – 5:00pm	Omni Hotel 3rd floor - Bristol	Tenprint Certification Testing
9:00am – 11:00am	Omni Hotel 3rd floor- Blackstone	Footwear Certification Testing
9:00am – 5:00pm	Omni Hotel 3rd floor - South County	Board of Directors* Kevin Lawson, Chair
9:00am – Noon	Omni Hotel 3rdfloor - Newport	Biometric Information Systems Subcommittee* Brian Finegold, Chair
10:30am – 12:30pm	Convention Center 5th floor - Ballroom E	Crime Scene Certification Board Presentation & General Meeting Domingo Villarreal, Chair
1:00pm – 3:00pm	Omni Hotel 3rd floor - Washington	Forensic Anthropology Subcommittee Amy Mundorff, Chair
1:00pm – 3:00pm	Omni Hotel 3rd floor- Blackstone	Forensic Laboratory Analysis Subcommittee Greg Laskowski, Chair
1:00pm – 3:00pm	Convention Center 5th floor - Ballroom C	Latent Print Certification Board General Meeting Steve Howard, Chair
1:00pm – 3:00pm	Convention Center 5th floor - Ballroom D	Biometric Information Systems Subcommittee/General Meeting Brian Finegold, Chair

* Meeting closed to membership

MEETINGS

Wednesday - August 7, 2013 (continued)

Time	Room	Meeting
1:00pm – 5:00pm	Omni Hotel 3rdfloor - Kent	Forensic Podiatry Subcommittee Wesley Vernon, Chair
1:00pm – 5:00pm	Omni Hotel 3rdfloor - Newport	Forensic Video Certification Testing
3:00pm – 5:00pm	Omni Hotel 3rd floor - Washington	Forensic Odontology Subcommittee Dr. L. Tom Johnson

Thursday - August 8, 2013

Time	Room	Meeting
7:00am – 9:00am	Convention Center 5th floor - Rotunda	Editorial Review Board Breakfast* Alan McRoberts, Chair
8:00am – 10:00am	Omni Hotel 3rdfloor - Kent	SII - Probability Modeling Study Subcommittee
8:00am – Noon	Omni Hotel 3rd floor - Washington	Forensic Photography/Electronic Imaging Subcommittee Brett Doretti, Chair
8:00am – Noon	Omni Hotel 3rdfloor - Newport	Forensic Photography/Imaging Certification Board* Ann Mallot, Chair
8:00am – Noon	Omni Hotel 3rd floor - South County	Board of Directors* Kevin Lawson, Chair
8:00am – 5:00pm	Omni Hotel 3rd floor - Bristol	Latent Print Certification Testing
1:00pm – 3:00pm	Omni Hotel 3rd floor - South County	Johnson –Whyte Memorial Foundation Fund Advisory Committee* Tim Zoll, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor- Executive Boardroom	Crime Scene Certification Board* Domingo Villarreal, Chair
1:00pm – 5:00pm	Omni Hotel 3rd floor - Washington	Forensic Video Certification Board*
1:00pm – 5:00pm	Omni Hotel 3rdfloor - Kent	Bloodstain Pattern Analyst Certification Testing
5:00pm – 6:00pm	Omni Hotel 3rdfloor - Kent	Bloodstain Pattern Analyst Certification Board and Subcommittee Michael Van Stratton, Certification Chair Holly Latham, Subcommittee Chair
5:00pm – 6:00pm	Omni Hotel 3rd floor – South County	SWG Chairs Meeting* Lesley Hammer, Chair

Friday - August 9, 2013

Time	Room	Meeting
8:00am – 10:00am	Omni Hotel 3rd floor-South County	Student Recap** Dean Bertram, Chair
10:00am – 11:00am	Omni Hotel 3rd floor-Bristol	General Forensics Subcommittee Gary L. Ford, Chair
10:00am – Noon	Omni Hotel 3rd floor-South County	Forensic Art Certification and Subcommittee Stephen Mancusi, Certification Chair Suzanne Lowe Birdwell, Subcommittee Chair
1:00pm – 4:00pm	Convention Center 5th floor - Ballroom D	IAI Business Meeting President Deborah Leben, Chair
6:30pm –11:00pm	Convention Center 1st floor – Exhibit Hall A	Installation and Closing Banquet President Deborah Leben

* Meeting closed to membership

Executive Leadership Seminar for Managers in the Forensic Science Community

August 6th – August 7th, 2013 - Waterplace Ballroom, Omni Hotel 2nd Floor

Executive Summary

Effective leaders are vital in paving the path forward. "Leadership and learning are indispensable to each other ". – John F. Kennedy

Talented and dedicated people serve in the forensic science enterprise performing work that is vital in to ensure public safety in local neighborhoods and the Homeland. Following the release of a report from the National Research Council: Strengthening Forensic Science in the United States: A Path Forward, the forensic science community began to work deliberately across all levels of government and private industry to review the NRC recommendations and develop an action plan. This workshop series is designed to discuss the subject matter listed and determine how the IAI can support managers and forensic service providers with their operational needs as it relates to certification and accreditation, education, research strategies, best practices and responding to challenges within a discipline, and the advancement of new technologies.

In February 2013, a special announcement from the Department of Justice and National Institute of Standards and Technology was released announcing the creation of the National Commission on Forensic Science. This new Commission will be discussed.

August 6th

MORNING: Registration and check in.

AFTERNOON:

1:00 pm – 1:45 pm Press Release: the Creation of a National Commission on Forensic Science
- · IAI President Deborah Leben - Programs and Research Initiatives
- · Program Manager NIST OLES Sue Ballou
- · ASCLD Past President Jill Spriggs

2:00 pm – 2:45 pm Consortium of Forensic Science Organizations
- · Retired Lieutenant Detective Kenneth Martin
- · President of E.L.S. and Associates Beth Lavach
- · ASCLD Past President –Jill Spriggs

3:00 pm – 3:45 pm The Importance of Laboratory Accreditation and Proficiency/Competency Testing
- · International Program Director ASCLD-LAB John Neuner

4:00 pm – 4:30 pm Certification Programs Governed by the IAI
- · Professional Programs Quality Assurance Governing Board Chairman Robert Garrett

4:30 pm – 5:30 pm Advancements in the FBI CJIS Next Generation Identification
- · IAI Liaison to the Identification Services Subcommittee Igor Pacheo
- · Oversight and Liaison to the FBI CJIS Scott Swann

EVENING: Vendor reception: wine and cheese event

August 7th

MORNING:

8:00 am – 8:45 am Probability Modeling: Training and Evaluation Report
- · Board of Director Stephen Meagher

9:00 am – 9:45 am Courtroom testimony and Motions for Discovery
- · Retired Lieutenant Detective Kenneth F. Martin

9:45 – 10:15 am Networking Break (Coffee and Pastries)

10:15 – 11:00 am Environmental Safety and the new Globally Harmonized System
- · OSHA Providence Area Office Mary Ann Medeiros

11:15– 12:00 pm Advanced and Specialized Training For Subject Matter Experts
- · Program Manager and Training Coordinator / RS&A Mike Campbell

Closing comments and survey.

"Outstanding leaders go out of their way to boost the self-esteem of their personnel. If people believe in themselves, it's amazing what they can accomplish." - Sam Walton

Noon – 1:00pm - Ballroom A

White Box Latent Print Examiner Study: Relating Examiner Conclusions to the Quality and Quantity of Print Features

Bradford T. Ulery
Senior Principal, Noblis, Falls Church, Virginia
R. Austin Hicklin
Fellow, Noblis, Falls Church, Virginia
Maria Antonia Roberts
Research Program Manager, Federal Bureau of Investigation, Quantico, Virginia
Dr. JoAnn Buscaglia
Research Chemist, Federal Bureau of Investigation, Quantico, Virginia

The White Box Latent Print Examiner Study is an evaluation of how the conclusions of latent print examiners relate to the quality and quantity of latent print features. This study was conducted by the FBI Laboratory and Noblis as a follow-on to the Black Box Study. The 320 pairs of latent and exemplar prints used were carefully selected in order to observe the effects of quality and quantity on examiner determinations, through a screening process which varied four dimensions independently: number of minutiae, image clarity, complexity, and the presence or absence of cores and deltas. A total of 170 volunteer latent print examiners were each assigned 22 pairs of prints to annotate and compare using specially designed software; their work was recorded at the end of the latent Analysis Phase and again after Comparison and Evaluation. During Analysis, examiners determined the suitability of the latent print for comparison, "painted" the local image clarity, and marked features. During Comparison and Evaluation, they annotated the exemplar, indicated any corresponding features in the latent and exemplar, and determined if the two prints came from the same source.

Noon – 1:00pm - Ballroom C

Presentation of Forensic Facial Reconstructions to the Public: Insights from Cognitive Psychology

Karen T. Taylor, CFA
Forensic Artist, Sculptor and Facial Identification Specialist at Facial Images; Texas Department of Public Safety (retired), Austin, Texas

Facial reconstructions are created to facilitate naming the unidentified deceased. Integral to this process is viewership of facial images by the public to trigger recognition and prompt tips. It's well worth considering the vast research in the field of cognitive psychology and how it applies to this viewing process. Strategic implementation of findings about perception and recognition of faces may be key to the optimal use and potential effectiveness of the forensic artwork.

Noon – 1:00pm - Ballroom D

The Importance of Proficiency Testing: The How and Why?

Jamie Craig, CTPE
Senior Deputy Program Manager, Biometric Support Center, San Diego, California

This presentation will cover why there is a need for proficiency testing within the field of fingerprint identification, but may also be applicable in most crime labs. Examples of how testing may be performed and what the results mean to your department.

Noon – 1:00pm - Ballroom E

So, You Want to Write a Forensics Textbook?

Richard H. Walton
Associate Professor (Criminal Justice), Utah State University Eastern, Price, Utah

Many identification practitioner's wish to author a textbook. A lack of understanding of the publishing experience may seem daunting, perhaps even insurmountable. This presentation will cover reasons to publish, reader types and publications, proposals and the modus operandi of writing, selecting a publisher, publishing, and working with editors.

12:30 – 2:30pm - Ballroom B

Advanced Processing of Digital Evidence

David "Ski" Witzke
Vice President, Program Management, Foray Technologies, San Diego, California

The cliché "you've come a long way baby" may describe our understanding of digital technologies related to cell phones or high definition television, but it does not describe our understanding of digital imaging technologies. It will also cover the issues and concerns of digital forensic evidentiary photography, including terminology, best practices for capturing, processing and storing digital images, as well as what formats to use, what techniques are "acceptable" and what constitutes best practices. We will also discuss how increasing your knowledge and understanding will remove the uncertainty surrounding the use of digital imaging techniques and produce images that are true, reliable, and accurate representations.

1:00 – 2:00pm - Ballroom A

Assessing the Performances of a Fingerprint Statistical Model on Different Subpopulations of Fingers

Cedric Neumann
Assistant Professor, Pennsylvania State University, University Park, Pennsylvania

Several statistical models have been proposed for the quantification of the weight of fingerprint evidence over the past 10 years. Recurrent concerns have been expressed on the capability of these models to calculate statistics for different subpopulations of fingers categorized by general patterns or finger numbers, and on the robustness of these models when considering multiple impressions of the fingers of given individuals. This presentation will report on the tests performed on a model designed at the Pennsylvania State University and tested using a 3M Cogent AFIS supported by a database of more than 7 million fingerprints.

1:00 – 2:00pm - Ballroom C

Remote Digital Forensic Art

Greg Bean
Detective/Forensic Artist, Bellevue Police Department
Natalie Murry
Lead Artist, ID Forensic Art, City of Kent, Washington State

Learn how Detective Greg Bean and fellow forensic artist, Natalie Murry, have spent the last two years changing the face of forensic art. Their objective is to break down the logistical barriers that prevent police departments from utilizing the powerful investigative tools provided by forensic artists. The presentation will include case studies illustrating the remote digital process they are now using to help investigators successfully identify suspects and close cases all around the country.

1:00 – 2:00pm - Ballroom D

Detection Dogs as Investigative Tools

Dr. Susan Stejskal
Special Deputy/Forensic Dog Handler, MILES Consulting/St. Joseph County Sheriff's Department, Vicksburg, Michigan

This presentation will cover how the dog nose is being used as a detection tool throughout many areas of law enforcement and medicine. Basic anatomy and physiology of canine olfaction will be covered along with some of the unique characteristics that help a dog do what they do so well. Training and deployment of these "instruments" as locating tools in a variety of investigations will be covered. Case reports in the use of detection dogs will also be included.

1:00 – 2:00pm - Ballroom E

Checklist for One-to-One Facial Comparison

Richard W. Vorder Bruegge
Senior Photographic Technologist, Federal Bureau of Investigation, Operational Technology Division, Quantico, Virginia

The Facial Identification Scientific Working Group (FISWG) recommends that morphological analysis be used when conducting 1:1 facial comparison examinations. This lecture will describe a proposed list of facial components, including a breakdown of those components into their characteristics and descriptors. This list serves as the basis for a facial comparison checklist for use in one-to-one examinations and will be a standard for all who perform these examinations.

2:00 – 2:30pm - Ballroom A

Fingerprint Evidence in Scene Reconstruction

Dr. Henry C. Lee
Distinguished Professor, University of New Haven; Commissioner (Ret.), Connecticut Department of Public Safety; Founder, Forensic Research & Training Institute, Department Chair, Forensic Science, University of New Haven, Research Associate, Henry Lee Institute of Forensic Science

Today's crimes are often solved by analysis of forensic evidence. The successful analysis of scene evidence such as fingerprints relies on observation, logic, skill and the ability to recognize and evaluate that evidence. If potential fingerprint evidence is not recognized, and then processed and handled properly, its value is lost. Despite current crime scene technologies, the effective utilization of physical evidence in crime solving is only as good as the integrity of the crime scene investigator.

2:00 – 3:00pm - Ballroom C

The Laser in Forensic Art

Detective Paul Moody, CFA
Forensic Imaging Specialist, Palm Beach County Sheriff's Office, West Palm Beach, Florida
Joe Siefferman, CSCSA, CFA
Crime Scene Technician, Buckeye Police Department, Buckeye, Arizona

This lecture will present the technique of using a laser to simplify positioning of the skull into the Frankfort Horizontal Plane when rendering a two-dimensional craniofacial approximation. Photographing the skull using a camera and tripod will be discussed and it will be shown how the laser integrates well with this process in both frontal and profile positions. The discussion will also cover using a flexible cable as part of an armature on which to mount the skull for rendering.

2:00 – 3:00pm - Ballroom D

Unmanned Aerial Vehicle (UAV) –Aerial Crime and Accident Scene Photography

Dave Banks and Rui Freitas
Detectives, Forensic Identification Services, Halton Regional Police Service, Oakville, Ontario, Canada

The presenters have been operating a police remote controlled UAV since 2009 in Canada for aerial photography and video. As U. S. Federal regulations are opening the skies in this area and police services are exploring program set ups, this presentation will cover: Accusation, training, federal certification material, procedures, experiences (good and bad) and photographic examples of scenes.

2:30 – 5:00pm - Ballroom E

Forensic Archaeology/Crimes Scenes Involving Skeletal Remains

Karen Cooper
Crime Laboratory Analyst Supervisor (retired), Florida Department of Law Enforcement, Ft. Myers, Florida

In scenes involving skeletal remains, determining the identity of the victim, and the cause and manner of death offers a challenge to the crime scene analyst, medical examiner and investigator. Retrieving the maximum amount of information available at the scene is imperative. The objective of this course is to provide crime scene investigators with the tools and techniques necessary to carry out professional forensic examinations of scenes involving surface skeletons. The workshop is geared towards providing a sound understanding of what precautions must be taken, the equipment and tools utilized, and the types of documentation and evidence collection techniques necessary to preserve scenes involving human skeletal remains. Actual and mock cases will be used to demonstrate the techniques. Field exercises in the examination and documentation of scattered surface skeletons will offer the participant an opportunity to practice the techniques in a mock scene setting. ***NOTE: This lecture is a prerequisite for workshop W61, Thursday.***

3:00 – 4:00pm - Ballroom A

Exclusions and Sufficiency: Decisions for the Strong of Heart

John P. Black, CLPE, CFWE, CSCSA
Senior Consultant, Ron Smith & Associates, Inc., Largo, Florida
Dr. Glenn Langenburg, CLPE
Forensic Scientist, Minnesota Bureau of Criminal Apprehension, Saint Paul, Minnesota

Friction ridge examiners routinely struggle with exclusion and sufficiency decisions. John and Glenn have been working diligently on the development of a new IAI approved road school on these subjects. You have been pleading for more instruction on these very critical topics and this lecture will provide the attendees with a glimpse into how the presenters address these two specific issues which face us every day in casework. They will include as many highlights of their 40-hour course as possible. Why don't you come join in this fast paced lecture?

3:00 – 5:00pm - Ballroom B

Difficult Lighting and Subject Photography

George Potash
Patrolman, Columbia Police Department Crime Scene Unit, South Carolina

This presentation is intended to provide beginning and intermediate photographers with an understanding of how to manipulate light to improve images. A plain-language overview of light theory will provide participants with the understanding to use techniques and equipment to capture difficult subjects such as metals and glass, as well as HDR imaging. Color correction will also be addressed.

3:30 – 4:30pm - Ballroom C

Z Brush 3D Software use in Forensic Art

Kirt Messick, CFA
Forensic Artist, Phoenix police Department. Arizona

Pixologic Zbrush is 3D software that is used by Hollywood in the major motion picture industry as well as the game industry for character design. It gives the artist the ability to sculpt with HD precision and then paint a photo or create texture on the sculpted surface. The possible application for law enforcement is huge. This lecture will give the basics of what the software can and can not do in an investigation as well as how the software works in general. Examples will be shown on how the software has been used investigations.

3:30 – 4:30pm - Ballroom D

Emerging Technology for the Imaging Specialist

L. Thomas Johnson, CSCSA
Adjunct Professor, Marquette University, Milwaukee, Wisconsin
Thomas W. Radmer
Assistant Clinical Professor, Marquette University, Milwaukee, Wisconsin

In response to the 2009 National Academy Report, alleging the comparative disciplines lacked scientific methods and standards, this presentation will cover a scientific template and computer software applications for the forensic imaging specialist. Results of a three year, NIJ funded blind study, will be reported. With modifications, the semi-automated application, Tom's Toolbox©, has potential for all the comparative patterned disciplines, providing reliable, reproducible measurements and statistical support correlating an unknown to a known pattern.

4:00 – 5:00pm - Ballroom A

Serendipity – An Historical Account of the Discovery of Latent Print Reagents

Robert Ramotowski
Chief Research Scientist, Forensic Services Division, United States Secret Service, Washington, D.C.

This presentation will chronicle the discovery of the major techniques used for visualizing latent prints over the last century and a half. Techniques such as powdering, iodine fuming, and silver nitrate were developed during the 19th century. Ninhydrin, physical developer, cyanoacrylate fuming, lasers, and vacuum metal deposition were all introduced during the 20th century. What techniques or technologies are likely to be brought to light in the 21st century? There have already been some interesting advances in the areas of upconversion and nano-particle technologies. What more can we expect?

4:30 – 5:00pm - Ballroom D

Turn on the Auto-Pilot! Fingerprint ID with the Speed, Accuracy and Comfort for the 21st Century

Roberto Wolfer
Cross Match Technologies, Jena, Germany

Today fingerprints are taken not only for criminal ID purposes, but also for a wide variety of civil use cases such as border crossings, elections, ID cards and banking. Whereas in law enforcement the capture process is done by dedicated and specially trained experts, in civil systems regular administrative personnel or even the applicant himself is often responsible for capturing the fingerprints. This lecture explains how intelligent technology can guide operators and users through the fingerprint capture process, avoiding typical capture mistakes without any training required. See how automated quality assessment leads to fingerprints with a consistently high image quality compared to human-based quality assessment approach. In addition, the ongoing development of new standards for global harmonization of feedback elements and biometric symbols will be discussed and how this will lead to lower failure-to-enroll rates regardless of who captures the fingerprint.

4:30 – 5:30pm - Ballroom C

Conducting a Composite Session with Multiple Witnesses and/or Victims

Stephen Mancusi, CFA
Chairman of the Forensic Art Certification Board, Retired Detective and Forensic Artist for NYPD - ForArtist LLC

Multiple-witness sketches are developed during composite sessions in which more than one person provides input into a suspect sketch. This lecture will address the categories of these kinds of composite sessions, the importance of a well-developed session procedure and interviewing guidelines. This is considered a difficult composite session and many artists are hesitant to conduct this procedure. However, it is still paramount for the experienced forensic artist to have an understanding of its applications.


Join us in San Antonio, Texas, in 2018
for the International Association
for Identification
Educational Conference
TEXAS

Noon – 2:30pm - Room # 552A
W1 $30 (Basic Workshop)

Recovery and Documentation of Footwear Evidence

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

This workshop will discuss the various methods in the recovery of exemplars, casting methods and photographic recovery. Students will use a hands-on approach for the production of exemplars, bio-foam and various casting methods for the recovery of footwear evidence. **This workshop will not be repeated.**

Noon – 5:00pm - Room #555A
W73 $40 (Basic Workshop)

The Examination and Comparison of Tire Track Evidence

Dwane S. Hilderbrand, CFWE, CLPE, CSCSA
Private Consultant/Instructor, Forensic ITC Services, Scottsdale, Arizona

This workshop is designed to present a series of interactive lectures using PowerPoint, Adobe Photoshop, and various other software programs. The workshop will provide an overview with both lecture and hands on exercises of the proper methods and techniques in the examination and comparison of tires, tire treads, and tire track evidence. There will be various discussions related to the proper techniques and methodologies in the examination and comparison process. There will be heavy discussions on the manufacturing of tires and tire tread designs and how it pertains to the comparison process. Numerous in class practical exercises are utilized and implemented to emphasize and critique the skills of the students to properly perform this level of training in tire track science.
This workshop is also offered as W74, Tuesday.

12:30 – 2:30pm - Room #551A
W21 $35 (Basic Workshop)

Thermal Paper, Regular Paper … What's the big deal?

Angela Olson
Crime Scene investigator, Douglas County Sheriff's Office Forensic Services, Omaha, Nebraska
Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

Document examiners and forensic investigators are inundated with techniques to develop latent fingerprint impressions on porous surfaces, specifically paper. Some of these processing techniques are generally accepted while others are considered novel. Participants in this hands-on workshop will utilize a variety of processing techniques to develop latent impressions on thermal and regular paper. The results will be compared.
Development techniques will include:

- Amino Acid reagents (DFO, Ninhydrin, Indandione)
- Wet vs. Dry chemistry techniques
- Hydrochloric, Nitric, Acetic Acid
- Dry Heat
- Steam
- Magnetic Powder
- Alternate Light Source

Post Processing Stain Removal techniques:

- Chemical bath – rinse
- 3m Scotch™ Tape

This workshop is also offered as W22, Tuesday.

12:30 – 2:30pm - Room #554B
W64 $25 (Intermediate Workshop)

Complex Bloodstain Patterns

Holly M. Latham, CLPE, CBPE
Forensic Scientist III, Kansas Bureau of Investigation, Great Bend

Sometimes things are not as simple as they seem. Introductory bloodstain courses offer an analyst the tools to recognize simple textbook patterns, but what happens when patterns begin to overlap or when the pattern area is incomplete? This workshop will deal with complex patterns in bloodstain pattern analysis and the mechanisms that produced them. Complex patterns will include overlapping patterns that can lead to sequencing and the limitations involved. The class will be given examples and engage in discussion on whether a bloodstain pattern can be correlated back to the object which created it. Students will also explore environmental factors that can affect or alter the appearance of a bloodstain or bloodstain pattern. Students are expected to have a basic understanding of bloodstain pattern analysis. **This workshop will not be repeated.**

12:30 – 2:30pm - Room #554A
W117 $30 (Basic Workshop)

IAI Crime Scene Certification Preparation for All Modules

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida

This workshop was designed to prepare the members who wish to take the crime scene certification test for crime scene module one, two and four. Instructors sample questions will be part of this workshop to test your knowledge on the study materials for these certification modules. The study materials for this test include:

1) Practical Crime Scene Processing and Investigation; by Ross M. Gardner (2nd Edition);
2) Crime Scene Photography; by Edward M. Robinson (2nd Edition);
3) Crime Scene Investigation; by Jacqueline T. Fish, Larry S. Miller and Michael C. Braswell (2nd Edition);
4) Criminalistics: An Introduction to Forensic Science; by Richard Saferstein (9TH Edition).

This workshop is also offered as W118 following this workshop.

1:00 – 5:00pm - Room #556A
W11 $60 (Intermediate Workshop)

Friction Ridge Sufficiency: The Threshold?

Julie Brownfield, CLPE
Forensic Lead Specialist, Forensic Unit, Spokane County Sheriff's Office, Washington

Determining friction ridge sufficiency (how much is there and is it enough) is an area of latent print analysis that is one of the most difficult concepts to teach or explain. Also it is a topic that latent print examiners have the most common disagreement with. Over the past 20 years the criteria for determining "sufficiency threshold" has certainly changed from a traditional point of view to today's contemporary view.

This workshop is designed for latent print examiners with at least one year of experience that would like to improve their knowledge and practical experience in the comparison of complex latent prints. The workshop begins with establishing common terminology, discussing quality/quantity and the examiner's threshold of friction ridge sufficiency in accordance with SWGFAST. It proceeds into the historical sufficiency criteria changes and the levels of sufficiency. The second half of the workshop is spent completing exercises by recording and documenting the analysis on actual case friction ridge impressions. The exercises are reviewed using class discussion in order to develop consultation skills. **This workshop is also offered as W12, Wednesday and W13, Thursday.**

1:00 – 5:00pm - Room #556B
W19 $40 (Intermediate Workshop)

Logical Latent Analysis

Mack Brazelle, CLPE, CCSI
Fingerprint Specialist, Treasury Inspector General for Tax Administration, Forensic Science Laboratory, Beltsville, Maryland

When was the last time you attended a fingerprint class on analysis? I'm not talking about a theoretical discussion on the reliability of ACE-V, or how to document your analysis in the "Post-NAS environment". I'm talking about a practical fingerprint class on how to quickly and accurately interpret the visual information found in latent prints. If you're looking for a class to sharpen your skills as an examiner this is the class for you.

It's the instructor's goal to advance the latent analysis process beyond the basic search smart tips by outlining a systematic yet practical approach to analysis. Topics will include; latent orientation, detailed pattern analysis, distinguishing thumbs from fingers, creating a basic shape search, distortion factors, and more.
This is not a comparison class. Students will be asked to concentrate on the information that is visible before magnification is used. The instructor will use lecture, class discussion, and exercises to reinforce the techniques discussed. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #552B
W27 $40 (Basic Workshop)

Gizmos & Gadgets

Dick Warrington
Consultant/Instructor, Lynn Peavey Company, Lenexa, Kansas
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

Gizmos and Gadgets class gives old and new techniques for simpler and cost effective ways to process crime scenes and evidence. During the lecture section of the class, there will be several demonstrations of processing and collection techniques from knowledge passed down from other crime scene officers and instructors to new officers along with new technology. Even though techniques vary from region to region, the end result is the same. This class will bring all these varying techniques together as new and old technology techniques will be shown.

This workshop will cover various types of: evidence markers and their use; evidence packaging and collection items; measuring devices and techniques; thermometers and temperature devices; magnifiers; scene accessories; impression and casting materials for latent prints, tool marks, bite marks and other applications. This workshop will also cover: photography techniques; several portable Alternate Light Sources and how they are used on body fluids and fluorescent powders; locating and lifting dust print techniques; and demonstrate various types of latent development techniques. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #551B
W43 $30 (Advanced Workshop)

Lip, Elbow and Wrist Impressions Examinations Workshop

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne

Natural patterns are unique, including the patterns of creases in skin. As long as the source of the impressions is persistent between the depositions at the scene and later when standards are obtained, impressions can be examined to determine whether they share common origin. By examining the sequences and configurations of the details of crease features of the skin, the source of the questioned impression can be determined if sufficient quality and quantity of details are present in both images.

This workshop will include a discussion of unique natural patterns, the examination process, and then practical exercises emphasizing crease details of lip, elbow, and wrist skin examinations. Previous experience in any comparative science is beneficial for the student. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #557
W51 $70 (Basic Workshop)

Describe, Define, Defend and Demonstrate

Mark Zabinski, CLPE, CSCSA
Criminalist II, Rhode Island State Crime Lab, Kingston

This workshop is designed for individuals who have never testified and for those that are seasoned in testifying. This will be a great source of information to those that are starting their career or a nice refresher to those that are veterans. Anyone in the forensics field will pick up some type of helpful tip. Topics of discussion in the lecture portion will include subject matter related to preparation, testifying and courtroom charts. The chart will be focused on latent prints in the classroom; however, the instruction can be applied to multiple disciplines. The workshop portion will include a hands-on approach to making your own digital courtroom chart on a PowerPoint program. Laptops will not be provided. Please supply something to save your completed work on. **This workshop will not be repeated.**

1:00 – 5:00pm - Room 553A
W80 $50 (Intermediate Workshop)

Digital Photography of Latent Prints

Larry Dow and Esther Neate
Applications Engineers, Foster Freeman USA, Sterling, Virginia

This hands-on workshop will cover techniques used in the photography of latent prints. The instructors bring over sixty years of experience to the classroom. This workshop will expound on the proper use of filters and various lighting techniques that will add efficiency to your work. Without proper lighting and the correct use of color filters, no amount of enhancement can ever yield a quality finished product. It is presented in an easy to follow approach and goes along with a free DVD of the presentation contents for your future use in training others. No matter what your skill level, this presentation can improve your job performance.

The first half (2 hours) of this workshop is a non-product specific lecture on digital imaging basics as they apply to latent photography. The second half is hands-on covering proper lighting techniques for latent print examination. Most agencies do not have the array of lighting for photographing latent prints as you will work with in this workshop. Darkfield ring lights for three dimensional objects, a paddle light for visible unprocessed prints, a line light for footwear, a ring light for general visual photography, the proper use of goose necks, and spectral illumination will be explained. The advantage of a tilt and shift lens will be demonstrated. Plus learn a few more tricks useful in your everyday photography chores. The basic through advanced user should fine this workshop worth their time.
This workshop will not be repeated.

1:00 – 5:00pm - Room #555B
W88 $40 (Intermediate Workshop)

Quadrant Mapping of Bloodstained Crime Scenes

Christopher Duncan, CFPH, CSCSA, CBPE
Crime Scene Investigator, Houston Police Department, Texas
Christine Ramirez, CSCSA
Program Manager, Texas A&M Engineering Extension Service, College Station, Texas

"Quadrant Mapping" of bloodstains is an accurate and methodical technique by which simple to complex bloodstain patterns in crime scenes can be documented. Quadrant Mapping is an extension of the well-known "Roadmapping" technique. It allows crime scene investigators and novice Bloodstain Pattern Analysts to properly document bloodstain patterns for analysis. Students will be given hands-on experience in documenting bloodstain patterns via Quadrant Mapping. Class presentations will include documentation, photography, and courtroom presentation of bloodletting events. Students should bring pencils and a straight edge to class. Students are encouraged to bring their cameras, as there will be hands-on photographic instruction offered during the workshop. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #553B
W101 $50 (Basic Workshop)

Latent Print Testimony 101 Workshop

Elizabeth Fontaine and Kelly Clarke
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

For trainees and newly qualified examiners, the mere thought of testifying may be daunting. This workshop is intended to help ease the anxiety associated with testifying. Courtroom basics, including qualifying questions, presenting charted enlargements, and responding to cross-examination will be discussed. This 4-hour workshop is designed for trainees and newly qualified latent print examiners and is part one of a three part series (Latent Print Testimony 101, 201, and 301). While the workshops are designed to build upon one another, this workshop is not a prerequisite to attend the other workshops. This workshop is considered a group interaction workshop, not hands-on. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #550AB
W114 $50 (Intermediate Workshop)

Forensic Photography Certification Preparation Workshop

Tony Nguyen, CFPH, CCSI
Crime Scene Investigator, Pomona Police Department, California
Ann Mallot CFPH
Forensic Specialist, Kansas City Police Department, Missouri

Forensic Photography is used by and impacts nearly every forensic discipline. There is also increased focus on certifications in the forensic community. With this in mind, this workshop is designed to assist the forensic specialist in preparation for the Forensic Photography Certification test. A sample written test will be proctored during the workshop as well as time for hands-on practice of sample practical exam assignments with assistance from Forensic Photography Certification Board Members. Participants should bring a camera, tripod or support, an external flash with a long sync cord, multiple types of scales, and post its. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #552A
W2 $30 (Basic Workshop)

Tricks and Tips for Lifting Latent Prints

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

Have you ever tried to lift a latent fingerprint in the blowing wind? Have you ever had so many lifts it took hours to tape and lift? Have you ever had your tape rip? How about those creases? Have you ever not had your knife, fingernails, scalpel or teeth available to cut your tape? How would you like to be able to pull and tear your tape in a single motion? Tricks and Tips for lifting latent prints will teach you the Famous Texas Tear and other known Tears. You will learn fantastic applications and lifting techniques to help you recover those difficult and illusive latent fingerprints. This class will use roll tape and strip tape. This will be a hands-on workshop. Class for beginners to advanced. Tape provided. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #551A
W23 $35 (Basic Workshop)

So I've Got This Evidence… and I am Perplexed about What Technique to Use!

Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

Forensic investigators are sometimes baffled as to what processing options are available and when to utilize them. This hands-on workshop will discuss techniques commonly used for developing and preserving fingerprint impressions today, but will also investigate and compare these to accepted practices that may have been forgotten or are rarely used. Just because it's old, doesn't mean it doesn't work! This workshop will address the following techniques:

- Iodine Fuming
- Gentian Violet
- Camphor Smoke
- Tape Glo®
- Liquinox
- Sticky side powder
- Cyanoacrylate (with dye staining)
- Small Particle Reagent (SPR)
- Alternate Light Source

This workshop is also offered as W24, Tuesday.

3:00 – 5:00pm - Room #554B
W66 $25 (Basic Workshop)

Recognizing Voids and How to Use Them in Bloodstain Pattern Analysis

Tom "Grif" Griffin, CSCSA, CBPE
Forensic Consultant, Bevel, Gardner & Associates, Inc., (ret.) Criminal Investigator, Colorado Bureau of Investigation

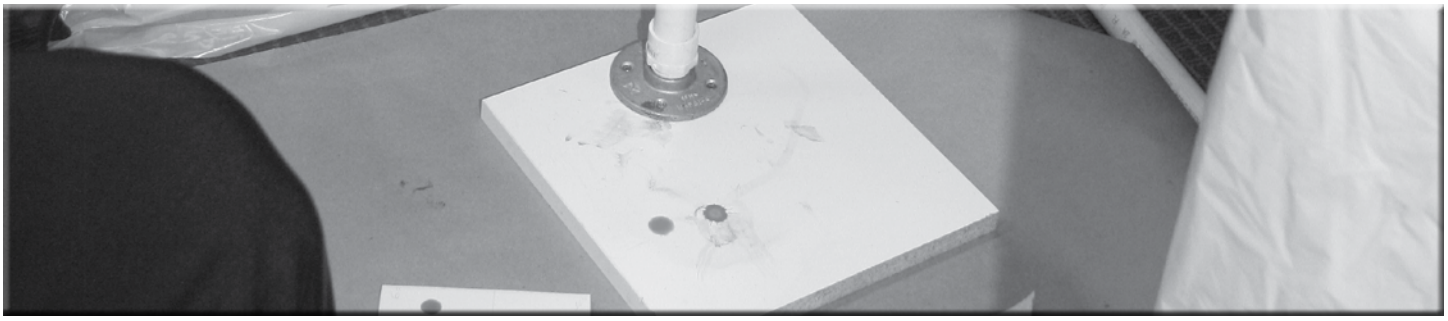
Investigative Question: Are you looking at a void or just an absence of blood? Voids are useful when documenting, interpreting and reconstructing an event where bloodshed has occurred. They can help identify and verify a secondary object that was at the crime scene. In addition, voids may be used to determine positions of subjects (victims, suspects, witnesses) relative to each other as well as the scene in general. This workshop will present characteristics of voids and case examples of their use in bloodstain pattern analysis. Displays will be presented for the student to examine so as to consider the investigative question. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #554A
W118 $30 (Basic Workshop)

IAI Crime Scene Certification Preparation for All Modules

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida

This workshop is also offered as W117 prior to this workshop. The learning objectives are listed under W117.



6:00 – 8:00pm - Room #551A
W25 $25 (Basic Workshop)

How Does One Make a Lasting Impression?

Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

Forensic investigators are often faced with the challenge of casting or preserving evidence. This can be for replicating impression evidence, including lifting and preserving two or three – dimensional fingerprint and footwear evidence. This hands-on workshop will explore optional casting/preservation techniques and their applications for field use. Participants will utilize a variety of materials to secure evidence from surfaces that may have otherwise been overlooked.

- ReproRubber®
- Accutrans®
- Mikrosil®
- Dental Stone
- Stretch Fingerprint Tape
- Gel Lifter
- Electrostatic Dust Lifter

This workshop is also offered as W26, Tuesday.

6:00 – 8:00pm - Room #557
W77 $25 (Basic Workshop)

Calibrating Latent Print Images with a No-cost Image Manipulation Program

Jason Howe, CLPE
Latent Print Examiner, Roxboro Police Department, North Carolina

An important aspect of investigations dealing with images of forensic prints is for the examiner to be able to create an image with a 1:1 ratio to the original. Normally, software used for this can cause hundreds to thousands of dollars. However, there is open source software available that allows agencies to create calibrated forensic print images at no cost for the software.

This workshop is designed for those who work with the latent prints, but may not have the ability to afford image manipulation software or may not have a great amount of experience in calibrating digital images of latent prints. Attendees of this workshop will be provided a no-cost copy of the GNU imaging manipulation program. The workshop will instruct users in how to install and operate the basic aspects of the software and how to calibrate a latent print image.

This workshop is intended to be a basic or refresher workshop for those with limited backgrounds in dealing with image manipulation software such as Photoshop. Attendees need not have previous experience with these types of software. **This workshop is also offered as W78 and W79, Tuesday.**

6:00 – 8:00pm - Room #550AB
W89 $30 (Basic Workshop)

The Optimum Combination of Light Sources, Dye Blends and Filters

Gary L. Ford II, CLPE, CFWE and Molly M. Hall, CLPE, CFWE
Forensic Latent Print Examiners, United States Army Criminal Investigation Laboratory, Fort Gillem, Forest Park, Georgia

The focus of this workshop is to maximize the fluorescence and contrast of latent print development with various light sources. With the variety of dyes, dye blends, light sources and filters available, it is often difficult to choose what combination should be used to optimize fluorescence. Presentation of various dyes and/or dye blends to include RAM, RAY, Basic Red 28, MBD, Ardrox, Basic Yellow 40, and Rhodamine 6G, will be given along with an opportunity to try these techniques following the discussion. Preparation of these chemical formulations, application methods, safety and handling issues and storage of these dyes will be discussed. The sequential processing is recommended before and after dye staining application and will be discussed. Alternative solvents for the Rhodamine 6G formulation will also be discussed. **This workshop will not be repeated.**

6:00 – 8:30pm - Room #552A
W3 $40 (Basic Workshop)

Powder, Powder Everywhere: Which one does one use?

Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana
King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida

Our crime scene investigation industry has saturated us with all types of fingerprint powders. Some powders are for regular applications and some for specific applications. So what items do you use heavy black powder on? What about all the colored powders, the grays, and whites. This class will delve into the use of various powders and the processing of various items with various powders. **This workshop will not be repeated.**

6:00 – 9:00pm - Room #552B
W63 $30 (Basic Workshop)

Mastering Nighttime Digital Photography

Brett Doretti, CFPH
Lead Forensic Specialist, Orange County Sheriff's Department Crime Laboratory, Santa Ana, California

Photographing crime scenes at night can be challenging and frustrating. Digital SLR Cameras were designed to work very well in daylight, but what about when the sun goes down? This workshop is designed for crime scene personnel responsible for photographing low light and nighttime crimes scenes. Attendees will gain a working understanding of techniques such as time exposures, shutter-drags, multiple flash, and painting with light in a detailed, hands-on, "learn it then do it" format. The student should bring a Digital SLR camera equipped with manual focus and exposure capability, detachable flash and extra batteries, shutter release cable or other remote control, and a tripod. A very limited number of tripods will be available. **This workshop will not be repeated.**

6:00 – 10:00pm - Room #554A
W119 $30 (Intermediate Workshop)

Who Shot What, Where, and When…When, Where, and How?

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida
Dr. Laura Pettler, CSCSA
Owner, Carolina Forensics, LLC, Waxhaw, North Carolina

This workshop will introduce techniques required to analyze shooting trajectory evidence recovered in vehicles that are involved in shooting related incidents. Proper trajectory analysis of firearms related evidence often recovered in vehicles is critical to analyzing every piece of the puzzle and for attempting to determine the approximate positions of victims, witnesses, and suspects, as well as chronological stringing together the sequence of events. This workshop will provide the forensic practitioner with hands-on experience by practicing trajectory reconstruction techniques in mock-crime scene vehicles containing shooting incident evidence. Workshop attendees will work to recover all of the forensic pieces, formulate a reasonable shooting reconstruction solution, and solve the puzzle using a variety of trajectory analysis related equipment, such as lasers coupled with special photographic techniques, and other apparatuses. This workshop is geared towards crime scene technicians, investigators, detectives, medical examiners and/or medical examiner investigators, laboratory analysts and other forensic practitioners associated with crime scene investigation. Safety Note: Gloves and safety glasses will be provided for students participating in this workshop. A light source will be used during this night class. **This workshop is also offered as W120, Friday.**

8:00 – 9:00am - Ballroom A

LITS Status & Updates

Melissa K. Taylor
Management and Program Analyst, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

This session will provide an overview and update of the Latent Interoperability Transmission Specification (LITS). LITS is a system-level specification, parallel to and compatible with the Federal Bureau of Investigation's (FBI's) Electronic Biometric Transmission Specification (EBTS), but focused on the definition of vendor-neutral latent transactions to be exchanged among disparate cross-jurisdictional AFIS. The purpose of LITS is to create open standards to enable seamless, efficient hierarchical (local-state-regional-federal) and peer-peer (local-local, state-state, etc.) searches; simplify acquisitions with a standardized latent AFIS interface; and propagate latent examiner notations by establishing uniform best practices and standards for data interchange. LITS addresses latent AFIS interoperability between and among the states, local Law Enforcement Agencies (LEAs), regional organizations, and federal organizations such as the Department of Defense or the Department of Homeland Security.

8:00 – 9:00am - Ballroom D

Writing a Bloodstain Pattern Analysis Report

Tom "Grif" Griffin, CSCSA, CBPE
Bevel, Gardner & Associates, Inc., (Retired) Criminal Investigator, Colorado Bureau of Investigation
Michael J. Van Stratton, CBPA, CLPE
Laboratory Director, Kansas Bureau of Investigation, Topeka

The report filed by a Bloodstain Pattern Analyst, while based on scientific methodology, is often regarded as subjective at best. Analysts may be bound by their agency's reporting format, however; there are essential elements which should be incorporated into the body of the report to ensure the reader, whether it is the prosecutor, defense counsel or the opposing defense expert, understands how the analyst was able to reach their conclusions. This lecture will also cover SWGSTAIN guidelines for writing a BPA report.

8:00 – 9:30am - Ballroom B

SWGIT - Update – 2013 Forensic Best Practices for Imaging and Video - Ballroom B

Moderators: **Melody Buba, CFVE, SWGIT Chair**
Electronics Technician, Federal Bureau of Investigation, Quantico, Virginia
Richard Vorderbruegge
Senior Photographic Technologist, Federal Bureau of Investigation, Quantico, Virginia
Paul J. Penders
Forensic Science Examiner, Connecticut, Department of Emergency Services and Public Protection

This panel of presenters will cover the Scientific Working Group on Imaging Technology's (SWGIT) role with the future of forensics. SWGIT has been working hard during the last fifteen years to provide protocols, scientific methodologies and best practices for the Latent Print, Video and Forensic Imaging Community. Discussions will focus on an overview of recent activities including new procedures and new myths that that surround images for court.

8:00 – 9:30am - Ballroom C

How to Give a Presentation

Britt Toalson, CFPH
Senior Photographer, Seattle Police Department, State of Washington

Have you ever wanted to give a presentation but weren't sure how to go about putting one together.
This class is designed to help the novice or newer presenter understand how to Outline, Organize, Design and Present to a group of individuals. The class will touch on tools, techniques and resources to assist you in creating and giving your own presentations.

8:30 – 9:30am - Ballroom E

Using Adobe Acrobat Portfolio for Case Dissemination and Presentation

Steve Everist, CLPE, CCSA
Latent Print Examiner, King County Regional AFIS, Seattle, Washington
Tony Nguyen, CFPH, CCSI
Crime Scene Investigator, Pomona Police Department, Pomona, California

Accumulating case materials for dissemination and presentation can be a time consuming and cumbersome process. No longer do you have to make multiple sets of photocopies, printouts, and photographic prints. This presentation will show how creating an Adobe Acrobat Portfolio can help organize case materials, containing various file types and media, into a single PDF file. This will make navigating complex cases much easier while streamlining the dissemination process.

9:00 – 9:30am - Ballroom A

The Development of Latent Prints on Thermal Paper Using Modified Ninhydrin and 1,2-Indanedione

Chun-Chieh Chen
Henry C. Lee Institute of Forensic Science, University of New Haven, West Haven, Connecticut

Thermal paper is commonly used in thermal printers and in lightweight devices such as cash registers and credit card terminals. The heat sensitive surface layer of the thermal paper poses a significant challenge because this paper has the tendency to turn grey or black with the application of traditional fingerprint development formulations, such as ninhydrin and 1,2-indanedione. This paper will explore various new development formulations for use with thermal papers.

9:00 – 9:30am - Ballroom D

SWGFAST Update and Panel Discussion

Moderator: **Melissa R. Gische**
Physical Scientist/Forensic Examiner, Federal Bureau of Investigation, Quantico, Virginia
Panel: **Members of SWGFAST**

Attendees will learn about the latest guidelines and recommendations developed by the Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST), as well as how they may participate in the further development of these materials. Audience participation will be encouraged.

10:30 – 11:00am - Ballroom A

Operation Pendennis: Forensic Fingerprint Investigation of Nine Sydney Terrorist Suspects

Rick Sinclair
Detective Senior Sergeant, Forensic Services Group, New South Wales Police Force, Australia

After an exhaustive 18 month investigation, on 8 November 2005 a joint counter-terrorism operation code named Operation Pendennis involving more than 650 NSW police officers and Australian Federal Police agents, simultaneously executed multiple search warrants across the Sydney metropolitan area. The execution of these warrants resulted in the arrest of eight males who were charged with offences under Commonwealth anti-terrorism legislation, with a ninth male was arrested and charged some six weeks later. This event subsequently evolved into Australia's biggest ever terrorist investigation, in which the largest ever criminal brief of evidence was compiled, and finally resulted in one of the longest and most complex criminal trials ever held in Australia. This presentation will focus on the forensic fingerprint investigation which saw one of the first successful casework uses of the fingerprint reagent 1,2-indanedione by NSW Police Forensic Services. The fingerprint brief of evidence in the case was one of the largest and most complex ever compiled by the NSWPF Fingerprint Operations command, and consisted of nearly 700 pages of statements, 400 photographs, and 26 fingerprint demonstration charts. Also discussed will be the method used to prepare and present the fingerprint evidence at the trial, which included the first known use in a court of law in Australia of animated demonstration charts using PowerPoint to enable the fingerprint identification evidence to be more effectively presented and explained to the jury.

10:30 – 11:00am - Ballroom C

Ethics and Integrity in our Profession

Kenneth Blue, CTPE
Law Enforcement Information Manager, Tennessee Bureau of Investigations, Nashville, Tennessee

This presentation will cover IAI Ethic rules and how individuals should maintain a professional demeanor when dealing with your peers and public as well. This lecture will give attendees insight on the effectiveness of "customer service".

10:30 – 11:00am - Ballroom D

Biometrics from Fingernails

Dr. Henry C. Lee
Distinguished Professor, University of New Haven; Commissioner (Ret.), Connecticut Department of Public Safety; Founder, Forensic Research & Training Institute, Department Chair, Forensic Science, University of New Haven, Research Associate, Henry Lee Institute of Forensic Science

Currently, the use of fingernail fragments recovered from crime scenes and clothing usually involves physical matching and nail bed comparison of the epidermis under the fingernail. DNA, considered by many to be the ultimate biometric, has often been overlooked as a valuable component in this process. The use of fingernails as a biometric in case investigation and mass disaster identifications, including the effects of various factors on DNA recovery, will be presented.

10:30 – 11:30am - Ballroom E

Bloodstain Pattern Photography at the Crime Scene

Gil Trujillo, CFPH
Supervising Forensic Identification Specialist, Los Angeles Sheriff's Department, Crime Scene Investigations/Latent Print Unit, California

This lecture will discuss the proper techniques used to photograph bloodstains/spatter at active crime scenes as well as follow-up investigations. As a part of this lecture, a PowerPoint presentation will demonstrate correct camera/tripod placement, use of measuring devices, etc., and include photographs from actual crime scenes.

10:30am – Noon - Ballroom B

Crime Scene Photography – Back to Basics

Scott Campbell, CSCSA
Instructor, Ron Smith & Associates, Muskego, Wisconsin

This introductory presentation is for evidence technicians and other personnel who have the responsibility to properly document crime scenes and physical evidence through photography. It will present attendees with what photos to take, a basic understanding of camera controls and adjustments, and how to improve photos with both DSLR and point and shoot cameras. This lecture would benefit attendees with limited familiarity of evidence photography and camera operations.

11:00am – Noon - Ballroom A

Perceptual Decision Making with Physical Evidence: How the Tools of Cognitive Science Help Reduce Errors and Improve Accuracy

Dr. Tom Busey
Professor, Department of Psychological and Brain Sciences, Indiana University, Bloomington
John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne, Indiana

Human examiners currently outperform computer-based matching algorithms when working with physical evidence such as friction ridge impressions. However, because the perceptual decision making process occurs inside the mind of the examiner, it can be difficult to establish the nature of the information that is used during examinations. In addition, the decision criterion that is used to make an identification or an exclusion can vary from examiner to examiner, and even vary as a function of fatigue. In this talk we explore how the tools of cognitive science such as eye tracking and computational modeling can improve the forensic decision making process. Central to our research is the concept of using mathematical models to characterize the information available in pattern impressions, and then model the tradeoffs that can occur when changing the decision criterion.

11:00am – Noon - Ballroom C

Facial Identification Scientific Working Group (FISWG) - A Panel Discussion

Moderators: **Richard W. Vorder Bruegge**
Federal Bureau Investigation, Operational Technology Division, Quantico, Virginia
Ed German, CLPE
US Army (retired), Washington, D.C.

Although facial identification (FI) has been used in government and law enforcement applications for decades, the widespread use of facial images for scientific analysis and automated facial recognition (FR) systems is more recent. Consequently, there is a need to gather and disseminate accurate information regarding the proper application of FI and FR methodologies and technologies. As a result, the Facial Identification Scientific Working Group (FISWG) was formally chartered in 2009. The mission of FISWG is to develop consensus standards, guidelines and best practices for the discipline of image-based comparisons of human features, primarily face, as well as to provide recommendations for research and development activities necessary to advance the state of the science in this field. This panel will discuss current and future FISWG activities, including recent publications.

11:30am – Noon - Ballroom E

The CSI Effect: Messages from the Bench and Barristers

Janne A. Holmgren
Associate Professor, Director for the Centre for Criminology and Justice Research, Department of Justice Studies, Mount Royal University, Calgary, Canada

While research into jurors understanding of forensic evidence based on forensic-related television shows has been researched extensively, little research has focused on the perception of this phenomenon by lawyers and judges. This session will expose the attendees to some perceived and real issues faced by Canadian lawyers and judges when proceeding with a criminal trial where forensic evidence might be a part of evidence presented.

1:00 – 2:00pm - Ballroom A

Training on Using the Black Box Studies to Support Latent Print Testimony

Kelly Clarke, Bethany Underwood, and Melissa Gische
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

We will summarize the findings of the FBI Laboratory/Noblis Black Box studies and provide assistance in using them to support latent print testimony. These publications may be used in the courtroom; however due to their complexity and extensive formulas they can appear overwhelming.

1:00 – 2:00pm - Ballroom C

Enhancing the Power of DNA as an Investigative Tool

Andrew Singer
Senior Product Manager, The Bode Technology Group, Inc., Lorton, Virginia

Improvements in DNA identification analysis continue to provide valuable information from evidentiary items. Now, reduced costs and increased processing speed make it a powerful investigative tool. New technologies, including utilizing local DNA databases and "Rapid DNA analysis" – which processes samples in 90 minutes or less, can impact how DNA is used to solve crime. This presentation will discuss local DNA databases, and provide information on new technologies to utilize DNA as a front-end investigative tool.

1:00 – 2:00pm - Ballroom D

Trends in Mobile Biometric Identification: Got RISC?

Tony Misslin
Product Manager, MorphoTrak Inc.

More and more law enforcement agencies are deploying mobile biometric identification devices, and increasingly many are searching not only their state or regional AFIS, but also the FBI NGI RISC repository. This lecture will examine the application and benefits of mobile biometric devices, and will also provide case study excerpts of recent successful mobile implementations.

1:00 – 2:30pm - Ballroom E

How Decentralization of Forensic Services Can Save Money and Improve Results

Donna Brandelli
Forensics Supervisor, Torrance Police Department, Torrance, California

Torrance PD civilianized their forensic unit in Feb. 2010. This change immediately saved the city 1 million dollars. Use of asset forfeiture funds to help construct a new lab ensured no additional costs to citizens. The collection of DNA at property crimes helped identify dozens of suspects. The civilianized staff collects evidence and conducts latent print analyses. Suspects are identified and apprehended faster for less money. See how your agency can do this too!

1:00 – 3:00pm - Ballroom B

Infrared Light Application in Crime Scene Investigations

Christopher Duncan, CFPH, CSCSA, CBPA
Crime Scene Investigator, Houston Police Department, Texas

Infrared light is a valuable tool for crime scene investigators. It allows them to see the unseen. The applications for infrared light's use at crime scenes are numerous, including the documentation of altered documents, gunpowder residue, smoke or soot-stained evidence, latent bloodstains, and concealed tattoos due to blood or decomposition. Investigators are able to easily capture these types of evidentiary photographs using the cameras they currently possess. Attendees will be instructed on different IR lighting and capture techniques.

2:00 – 2:30pm - Ballroom C

Comparing Static Shod Foot Impressions with Barefoot Foot Impressions

Bryan B. Kagan
Self-Employed, White Plains Center for Foot Care, White Plains, New York

This presentation will cover the anatomical positional changes occurring in the soft tissue and osseous structures when wearing shoes of different lengths and widths and why these changes should be considered when comparing "like to like" exemplars and when comparing shod foot impressions with barefoot foot impressions.

2:00 – 3:00pm - Ballroom A

Meeting Foundation Requirements: Latent Fingerprint Case Notes

Eleanor Giacometti
Forensic Scientist III, Illinois State Police, Chicago

In 2009 an Illinois murder conviction was reversed when the court determined foundation requirements for fingerprint evidence were not met. This presentation outlines the new approach taken by latent print examiners at the Forensic Science Center at Chicago to contemporaneously document the application of ACE-V. An example digital worksheet including analysis and comparison documentation pages and annotated images of impressions will be demonstrated.

2:00 – 3:00pm - Ballroom D

Automatic Security Alerting via Facial Recognition of Watch-lists against Live Video Streams from Surveillance Cameras

Kaustubh Deshpande
Product Manager, MorphoTrak Inc.

Surveillance cameras provide extra security in many public venues. Video footage is laboriously reviewed following a crime to establish investigative leads. Technology advances now allow security officers to receive automatic alerts via facial recognition of watch-lists against live video streams. When a known criminal or terrorist enters the camera view, the software alerts security officers, allowing fast response. We will also discuss the reverse use-case: finding faces in the video stream for post-event analysis.

3:00 – 3:30pm - Ballroom C

Scientific Interpretation and Forensic Podiatry

Professor Wesley Vernon OBE
Head of Podiatry Service and Research Lead, Sheffield Teaching Hospitals, Visiting Professor Huddersfield and Staffordshire Universities, Sheffield, United Kingdom

Scientific interpretation is an essential component of forensic casework and how an item of evidence is interpreted will depend on the background and experience of the forensic examiner. The lecture will consider the basis of scientific interpretation and how this is applied in practice. It's use in forensic podiatry will be considered and an illustrative example will be given of a recent footwear case which demonstrates the importance of interpreting correctly when performing casework.

3:00 – 4:30pm - Ballroom E

Mexican Narco Cult Beliefs, Symbols and Rituals

Dawn Perlmutter
Director, Symbol & Ritual Intelligence

This training focuses on Mexican Narco Cult religions, folk beliefs, ritual practices and related identifiers (tattoos, altars, symbols, jewelry, sacred objects, etc.). The prevalence of Saint worship in Mexico and areas of the U.S. particularly Santa Muerte, the Death Saint, will be described in detail including, shrines, forms of worship and the rise of the darker variant that entails ritualized torture and killing as offerings. A symbolic analysis of cartel beheadings, internet execution videos, the public display of mutilated bodies and accompanying narco messages will be presented (Extremely graphic)

3:30 – 4:00pm - Ballroom A

There Is Nothing Plain about a Whorl

Mack Brazelle, CLPE, CCSI
Fingerprint Specialist, Treasury Inspector General for Tax Administration, Forensic Science Laboratory, Beltsville, Maryland

This lecture will review a comprehensive approach to whorl pattern analysis for the latent print examiner. It will cover distinct and reliable information that can be found in whorl patterns such as; directional flow, pattern shapes, core analysis and proper orientation. It is the presenter's goal to provide an organized method for analyzing whorls.

3:30 – 4:00pm - Ballroom C

The Effect of Reduced Frame Rate on Forensic Gait Analysis Using Closed Circuit Television Footage

Ivan Birch
Professor, Sheffield Teaching Hospitals NHS Foundation Trust, England

Closed circuit television recordings used to investigate crime vary widely in terms of frame rate. This study was devised to establish the frame rate at which analysts can identify characteristics of gait from recordings, and will be used to establish guidance and standards of practice for forensic gait analysis.

3:30 – 4:00pm - Ballroom D

In Your Agency, Who is the AFIS Owner?

Dr. Behnam (Ben) Bavarian
Principal Consultant, AFIS and Biometrics Consulting Inc., Newport Beach, California

In this talk we will cover the rise of the Police IT department and its role impact on the identification and forensic services departments. The transition of the decision making on the AFIS procurement from the Tenprint and Latent examiners and the ID supervisors to the IT Manager is briefly outlined followed by discussions from several actual recent cases of procurements and deployments of new AFIS or AFIS upgrades. The pros and cons of the transition will be examined and a win/win strategy for going forward is presented. Finally, based on the actual cases, we will answer the question who really owns the AFIS in your agency!!

3:30 – 5:00pm STUDENT **- Ballroom B**

Shooting and Making Life Sized (1:1) Images Using Adobe Photoshop

Richard T. McEvoy, Jr., CFPH
President, Forensic Imaging, Inc.

Quite often various types of discovered evidence need to be imaged for comparison to an original. These types of evidence are commonly fingerprints, tool marks, footwear and tire tread impressions. This lecture will address the proper imaging techniques (equipment, lighting, scaling, etc.) to gain a high quality image and, then, explain and demonstrate how to quickly process the image in Adobe Photoshop to obtain a precision sized print. A handout will be given.

4:00 – 4:30pm - Ballroom C

Qualitative Morphological Analysis of Footprint Data

J. Gordon Burrow
Senior Lecturer, Glasgow Caledonian University and Consultant Expert Witness, Sheffield Teaching Hospitals NHS Foundation Trust

This presentation looks at systems which determine shape along with function and structure and addresses some issues and raises debate about how analysts can describe shape and function of the foot and its inherent structures consistently. In determining a structure or methodology for studying the shape of various features of the foot, the focus will be on the plantar aspect of the foot.

4:00 – 5:00pm - Ballroom A

Overview of the New UK Home Office 3rd Edition Fingerprint Manual

Rory Downham
Higher Scientific Officer, Home Office CAST, Sandridge, United Kingdom

The Manual of Fingerprint Development Techniques has been used within the UK and worldwide since 1986. The Home Office are in the process of re-writing it (including a re-design) to bring it in line with current working practices in the UK, including ISO17025 requirements and integrated forensics. The technical content will also be updated and the information will supersede previous publication and newsletters. This presentation will give an overview of the content within the manual, including a demonstration of how to navigate between pages to find relevant information.

4:00 – 5:00pm - Ballroom D

Challenges and Risks for DNA Profile's Quality Performed with Rapid DNA Technology…which Role(s) for the Expert in Such Approach?

James Grivet
Manager New Ventures, Fast DNA Project Manager, Technology and Strategy Direction, Safran Morpho, France

Today's DNA expert's Forensic Laboratory role is clearly defined. The DNA qualification process and quality criteria are defined and implemented according to each State's laws and forensic standards. However, new Rapid DNA technology requires us to reconsider our quality approach. From non-integrated devices such as conventional DNA laboratory processes to microfluidic cartridges, the challenge remains: ensuring no mistakes in a person's profile, and mitigating risks. What will be the role(s) of experts with Rapid DNA?

4:30 – 5:00pm - Ballroom C

Sexual Dimorphism of Foot Length Ratios in an Indian Population

Dr. Kewal Krishan
Sr. Assistant Professor, Department of Anthropology, Panjab University, Chandigarh, India

The present research is intended to find the possible ratios between different foot lengths (from heel to each toe) and study the sex differences in the derived ratios. The ratios derived between first toe length and other toes (T1:T2, T1:T3, T1:T4, T1:T5) and the ratio between 2nd to 4th toe lengths (T2:T4) showed statistically significant sex-differences. This novel investigation found that the derived ratios were independent of the stature of an individual. These sexually dimorphic foot length ratios can have implications in the identification of a dismembered foot remains.

7:00am – Noon - Room #555A
W74 $40 (Basic Workshop)

The Examination and Comparison of Tire Track Evidence

Dwane S. Hilderbrand, CFWE, CLPE, CSCSA
Private Consultant/Instructor, Forensic ITC Services, Scottsdale, Arizona

This workshop is also offered as W73, Monday. The learning objectives are listed under W73.

7:30 – 9:30am - Room #557
W78 $40 (Basic Workshop)

Calibrating Latent Print Images with a No-cost Image Manipulation Program

Jason Howe, CLPE
Latent Print Examiner, Roxboro Police Department, North Carolina

This workshop is also offered as W77, Monday and W79 following this workshop. The learning objectives are listed under W77.

8:00 – 10:00am - Room #551A
W22 $35 (Basic Workshop)

Thermal Paper, Regular Paper … What's the big deal?

Angela Olson
Crime Scene investigator, Douglas County Sheriff's Office Forensic Services, Omaha, Nebraska
Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

This workshop is also offered as W21, Monday. The learning objectives are provided under W21.

8:00 – 10:00am - Room #551B
W47 $40 (Intermediate Workshop)

Applying the SWGFAST ACE-V Methodology Standard

Dr. Glenn Langenburg, CLPE
Forensic Scientists, Minnesota Bureau of Criminal Apprehension, St. Paul

In this workshop, we will explore the 2011 SWGFAST "Standards for Examining Friction Ridge Impressions and Resulting Conclusions (ver 1.0)". We will apply this standard in the workshop to several cases and note various ways that an agency can easily meet this standard and current ISO accreditation standards, without overburdening the case working analysts. We will spend significant time discussing appropriate documentation, quality assurance approaches, and the quantity and quality charts found in the standard. We will apply this chart to actual latent prints and mock case examples. Students should expect to discuss concepts of sufficiency for comparison, sufficiency for identification, quality, etc. Students will benefit from the frank and open discourse with analysts from other laboratories as well as the discussion regarding the exercises in the course. Please note: this course is INTERMEDIATE level of difficulty/expertise and suitable for both tenprint and latent print examiners. Magnifiers will not be needed.
This workshop is also offered as W48 following this workshop.

8:00 – 11:00am - Room #552A
W4 $45 (Intermediate Workshop)

Discovery, Recovery and Photography of Bioluminescent Blood Stains

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

This workshop involves Luminol processing of blood at the crime scene and a comparison with BlueStar® Forensic. In past years, Luminol processing has been difficult due to chemical mixing procedures, improper mixing and problems in interpretation of the Luminol reaction. Luminol requires total darkness and causes much difficulty in photographic capture of the area for most investigators. A demonstration will be conducted with focus on the comparison of BlueStar® Forensic to Luminol on blood stains. Each student will have the opportunity to test both Luminol and BlueStar® Forensic to evaluate both products. Photographic techniques to capture the bioluminescent reaction of Luminol and BlueStar Forensic will be applied and practiced. Equipment needed for this workshop is a digital camera, tripod and cable release. **This workshop will not be repeated.**

8:00am – Noon - Room #556A
W14 $60 (Intermediate Workshop)

Articulating the Mental Comparison Process of Fingerprint Examination

M. Leanne Gray, CLPE, CFWE
Gray's Forensic Fingerprint Training and Consultation, Stoughton, Wisconsin

In this day and age of laboratory certifications and accreditations, it is imperative that pattern evidence examiners be able to articulate the methodology used in examinations. The question is how to write down a mental process. This class has been designed for pattern evidence examiners, although the primary focus is fingerprint examination and offers insights into adding ACE-V documentation to bench notes without taking hours and writing a novel. Attendees will be given a basic overview of the ACE-V methodology as well as some background in recent court decisions that have propelled fingerprint and other pattern evidence examiners to look for ways to document the ACE-V methodology. Current SWGFAST guidelines will also be discussed. A variety of methods for documenting the methodology will be provided and attendees will have the opportunity to practice the various documentation options during the workshop. By completion of the workshop, attendees will have a firm understanding of the ACE-V methodology as well as some practical options for adding the mental process taken during pattern evidence examination to bench notes. **This workshop is also offered as W15, Wednesday.**

8:00am – Noon - Room #550AB
W40 $60 (Intermediate Workshop)

Examination of Bodies for Fingerprints – Proven Methods, Tried and True

Brian Dalrymple, CLPE
President, Brian Dalrymple and Associates, Coldwater, Ontario, Canada
Lorene E. Moore, CLPE
Latent Print Supervisor, King County Sheriff's Office, Seattle, Washington

Human skin is arguably the most challenging and unpredictable fingerprint substrate, the most significant in terms of the weight attributed to such evidence, and the most rewarding when it produces results. A four hour workshop in which the attendee will learn the history of body examination, the critical process of deciding when to examine bodies and the documented successes of suspects identified by their fingerprints on the skin of their victims.

Effective SOPs and implementation procedures will be discussed. The student will practice hands-on application of the techniques that have produced criminal identifications in actual cases. **This workshop is also offered as W41 following this workshop and W42, Wednesday.**

8:00am – Noon - Room #556B
W59 $40 (Advanced Workshop)

Ridgeology Science Workshop – Lite: Are You Prepared for the IAI Latent Print Examiner Certification Examination?

Haria C. Haught, CLPE
Manager/Latent Print Examiner, Hernando County Sheriff's Office, Brookeville, Florida
Mark Zabinski, CLPE, CSCSA
Criminalist II, Rhode Island State Crime Lab, Kingston

By far and large, those that have failed the IAI Latent Print Examiner Certification Exam have done so because of difficulties during the comparison portion of the exam. This workshop provides an opportunity for you to determine if you are sufficiently prepared to pass this portion of the examination. The student will be given a "practice" certification examination. This "practice" examination is similar to, in structure and difficulty, to the actual certification examination, but of course is NOT an actual examination. It was created based on the experience of the workshop instructors who took the examination. Students should be able to gauge from their performance whether or not they have the necessary skills, training, and confidence to attempt the actual examination.

Students will be given four hours to complete the materials. If the student completes the examination in less time, an additional examination may be attempted. Also students may register for both workshops if they desire and attempt to complete one or multiple examinations in a combined eight hours. Students MUST bring their own magnifiers. Some students have found portable desk lamps to be quite helpful as well. **This workshop will not be repeated.**

8:00am – Noon - Room #554B
W65 $40 (Basic Workshop)

Basic Bloodstain Pattern Analysis Workshop

Iris Dailey, CBPE, CSCSA
Bevel, Gardner and Associates, Special Agent (retired), Oklahoma State Bureau of Investigation, Tulsa

An important part of the investigation of violent crime scenes, particularly those involving a large amount of blood, is our ability to recognize bloodstain patterns and to utilize those patterns to assist us in the reconstruction of the crime scene. By examining the size, shape, distribution and appearance of bloodstain patterns, along with other relevant information from medical or autopsy reports, statements by the victim(s) or suspect(s), examination of clothing and evidence, we will in most cases identify and differentiate bloodstain patterns.

This workshop is designed from crime scene technicians, medical examiner investigators and others associated with crime scene investigation, as well as those who have previous training in bloodstain pattern recognition and want a "refresher". This workshop will assist the participants with recognition of bloodstain patterns, bloodstain pattern terminology and documentation of bloodstains found at the crime scene. While this workshop will not make the participant and expert in bloodstain pattern analysis, it will allow them to understand bloodstain pattern and how they are created. Attendees need not have pervious training in bloodstain pattern analysis to attend. **This workshop will not be repeated.**

8:00am – Noon - Room #553A
W84 $25 (Intermediate Workshop)

Preparing for the IAI Tenprint Certification Test

Eva Hess, CTPE
Tenprint Examiner, King County Sheriff's Office, AFIS Tenprint Unit, Seattle, Washington

The workshop will guide examiners through the certification requirement and application process for Tenprint Certification. Hands-on practice materials will be provided during this workshop, as well as helpful tips that will enable the examiner to approach the certification test with confidence and enhance chance for success. Attendees should bring magnifiers to this workshop. **This workshop will not be repeated.**

8:00am – Noon - Room #552B
W93 $30 (Intermediate Workshop)

Reducing Erroneous Exclusions: The Workshop!

Eric Ray, CLPE
Criminalist, Arizona Department of Public Safety Crime Laboratory, Phoenix
Penny Dechant, CLPE
Criminalist/Latent Print Technical Leader, Arizona Department of Public Safety Crime Laboratory, Phoenix

The exclusion decision is a fairly recent change in latent print comparisons, and the discipline is still struggling with how to handle exclusions. Erroneous exclusions are being discovered with surprising frequency in latent print units around the country. Many labs have begun to verify their exclusion decisions, and this has resulted in errors finally being noticed. Recent research into the decisions of latent print examiners shows that erroneous exclusions are common and inevitable. So, what training have you had in exclusions? What is enough for an exclusion? What is your lab's standard for exclusion? Is your lab implementing any new Quality Assurance policies to address this problem?

This workshop will review the policy changes that Arizona DPS has implemented in their latent print unit to reduce erroneous exclusions. Examples of erroneous exclusions from casework will be presented along with information on circumstances that might make an erroneous exclusion more likely. Hands-on comparison exercises will demonstrate a practical approach to exclusion decisions. This class is intended for latent print examiners who routinely conduct comparisons. **This workshop is also offered as W94, Thursday.**

8:00am – Noon - Room #553B
W100 $80 (Intermediate Workshop)

Understanding the Human Ear - Get an Earful

Karen T. Taylor, CFA
Forensic Artist, Sculptor and Facial Identification Specialist at Facial Images; Texas Department of Public Safety (retired), Austin, Texas

Since Bertillon first encouraged careful assessment of ears, their contributions to the identification process have been many and varied. Forensic artists and others who deal with facial image comparison can benefit from a greater understanding of this specific complex feature. This workshop will give attendees a new look at these important features and provide a sound grasp of morphological characteristics of the human ear in an easy to understand way. This practical hands-on format will be based on the tools of art and anatomy. It will involve a bit of drawing and a bit of sculpture, though you need not have experience in either to participate. Through lecture material we will cover:

- Anatomical structures of the ear: for use in identification-related tasks
- Development and growth of ears: for child age progressions
- Age-related changes in ears: for fugitive updates and ear comparisons
- Bone to soft tissue correspondence of ears to the skull: for facial reconstruction

Practitioners from various disciplines will achieve a solid foundation in the anatomical elements of the ear and their potential variability and usefulness. All supplies and materials will be provided for class use. **This workshop will not be repeated.**

8:00am – Noon - Room #554A
W107 $50 (Intermediate Workshop)

Bloodstain Pattern Documentation: A New Approach

Michael Perkins, CSCSA, CLPE, CFPH, CBPE
Crime Scene Analyst Supervisor, Las Vegas Metropolitan Police Department, Nevada
Jan Johnson, CSCSA
Forensic Trainer, Forensic Pieces, Pensacola, Florida

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 are the necessary tools and worksheets. Each participant is required to bring a digital camera which they are familiar with, memory cards / card reader, and a tripod. A flash is optional, but recommended. Computers will be provided to download the resulting images, and to complete the hands-on exercises of measuring stain pattern areas, locations, angles of impact, and direction of flight. The 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 methods which offer significantly less chance of cross contamination of stains present at a scene. A basic knowledge of bloodstain pattern types is recommended. This workshop is limited to 12 participants. This workshop is intended for crime scene personnel. **This workshop will not be repeated.**

8:00am – 5:00pm - Room #555B
W106 $50 (Intermediate Workshop)

Persistency and Uniqueness of Friction Ridge Skin

Michelle A. Gallant and Kelly Clarke
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

The Persistency and Uniqueness of Friction Ridge Skin (FRS) workshop will consist of interactive lectures and activities designed to educate participants about the development of FRS and the rejuvenation and healing of FRS to explain uniqueness and persistency. Each participant will receive lecture handouts, enlargements of key images, activities to test one's knowledge, copies of pertinent literature, and a list of key terms. **This workshop will not be repeated.**

10:00am – Noon - Room #557
W79 $40 (Basic Workshop)

Calibrating Latent Print Images with a No-cost Image Manipulation Program

Jason Howe, CLPE
Latent Print Examiner, Roxboro Police Department, North Carolina

This workshop is also offered as W77, Monday and W78 prior to this workshop. The learning objectives are listed under W77.

10:30am – 12:30pm - Room #551A
W24 $35 (Basic Workshop)

So I've Got This Evidence… and I am Perplexed about What Technique to Use!

Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

This workshop is also offered as W23, Monday. The learning objectives are provided under W23.

10:30am – 12:30pm - Room #551B
W48 $40 (Intermediate Workshop)

Applying the SWGFAST ACE-V Methodology Standard

Dr. Glenn Langenburg, CLPE
Forensic Scientists, Minnesota Bureau of Criminal Apprehension, St. Paul

This workshop is also offered as W47 prior to this workshop. The learning objectives are provided under W47.

12:30 – 2:30pm - Room #552A
W5 $30 (Intermediate Workshop)

Processing Wet Evidence with SPR

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

Small Particle Reagent (SPR) is a well-known and utilized technique to develop latent prints on difficult surfaces such as wet surfaces (cold drink cans or automobiles with dew), oily surfaces, or textured surfaces. Wet surface processing with Black SPR and WetPrint will allow the student to possess the basic knowledge in SPR processing. During the workshop the student will also work on wet items with SPR. A suspension of fine molybdenum disulphide particles in detergent solution is a quick and simple process that adheres to the fatty constituents of fingerprints to form a grey or white deposit on non-porous surfaces by using either dish development or spray application methods. **This workshop will not be repeated.**

1:00 – 4:00pm - Room #553A
W85 $25 (Basic Workshop)

Fingerprinting Techniques

Cynthia Fuller, CTPE
Fingerprint Supervisor, Federal Bureau of Investigation, Clarksburg, West Virginia
Nancy Clark, CTPE
Forensic Identification Specialist I, Los Angeles County Sheriff, California
Crystal Frowner
Forensic Identification Specialist II, Kansas City Police Crime Laboratory, Kansas
Sonya Villa
Forensic Identification Specialist II, Latent Prints/Crime Scene Investigations, Los Angeles County Sheriff's Department, Scientific Services Bureau, California

This workshop will cover several techniques of recording friction ridge impression; such as ink printing, live scan, spoon technique and major case. Instructors will review the biology of fingerprints, the importance of taking legible fingerprints, and the use of live scan. The attendee needs to be prepared to roll ink fingerprints on site. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #556A
W16 $50 (Intermediate Workshop)

Distortion: Analysis and Discussion (Effect and Cause)

Sandra Siegel, CLPE
Latent Print Examiner, Forensic Division, Austin Police Department, Texas

Friction ridge skin does not reproduce exactly when recorded. In almost every recording of friction ridge detail there is some type of distortion. Fortunately, most of the time distortion does not detract from individualizations being made. An important part of any fingerprint or latent print training program is the recognition and analysis of distortion to determine its impact in the examination and comparison of friction ridge impressions and then describing it for documentation purposes. This workshop is designed for the fingerprint and especially the latent print examiner who have received training in friction ridge comparison. It combines analysis of friction ridge detail, documentation of the observed distortion 'Effect', and the description of the possible 'Causes' of the distortion. After a power point presentation, the students will be divided into teams. They will be given sets of friction ridge prints for analysis and be asked to present the observed "Effect' and describe the possible effect. The objective is for the student to Analyze, Document, and Articulate different aspects of friction Ridge Distortion. **This workshop is also offered as W17, Friday.**

1:00 – 5:00pm - Room #552B
W32 $60 (Intermediate Workshop)

Introduction to the Recovery of Footwear and Tire Impression Evidence

William J. Bodziak, CFWE
Owner, Bodziak Forensics, Palm Coast, Florida

This four-hour workshop will include detailed lecture and demonstrations on the best practice for the photography, casting and lifting of footwear and tire evidence. The lecture will address the best methods of photographic recovery and most importantly, the recognition of the shortfalls of this technique with regards to perspective problems, scale problems and other complex issues. These issues often interfere with the accurate photographic recovery, leaving the examiner with photographed impressions of only the 'approximate' size. The workshop will address procedures to reduce photographic error or inaccuracies. Casting of three-dimensional impressions in soil, sand and snow, as well as lifting various two-dimensional impressions will also be covered in detail. These methods are not only used to back up photography but also to provide the recovery of additional detail and features. Most methods discussed with involve in-class demonstrations and/or video footage. This workshop will serve as a great one-stop presentation of the best methods for impression evidence recovery for both novice crime scene technicians as well as lab examiners or supervisors who need a good review of impression recovery concerns and issues. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #555A
W37 $40 (Basic Workshop)

Photography with ALS

David J. Doglietto, CSCSA
Senior Investigator, California Department of Corrections and Rehabilitation, CTF-Soledad, State Prison, California
Edward "Ted" McDonald
Senior Instructor, Department of Homeland Security, Federal Law Enforcement Training Center, Glynco, Georgia

A quality Alternate Light Source or ALS is a valuable asset to any crime scene technician's toolbox or laboratory. However, of what use is the technology if the service that it provides cannot be properly documented. Enter the era of the digital camera and its function in the crime scene or laboratory. The trick, therefore, is combining the two technologies and using them to our advantage in documenting evidence, that otherwise may have been overlooked, in a manner that will be useful in courtroom proceedings. This workshop is designed to develop and improve the skills of the crime scene or laboratory technician in the use of their camera to successfully document exactly what they see through the colored filter.

The workshop is designed for intermediate students who have a working knowledge of their cameras and the ability to change camera settings. Don't forget to bring your cameras and tripods! **This workshop will not be repeated.**

1:00 – 5:00pm - Room #550AB
W41 $60 (Intermediate Workshop)

Examination of Bodies for Fingerprints – Proven Methods, Tried and True

Brian Dalrymple, CLPE
President, Brian Dalrymple and Associates, Coldwater, Ontario, Canada
Lorene E. Moore, CLPE
Latent Print Supervisor, King County Sheriff's Office, Seattle, Washington

This workshop is also offered as W40 prior to this workshop and W42, Wednesday. The learning objectives are provided under W40.

1:00 – 5:00pm - Room #551B
W44 $60 (Intermediate Workshop)

Creases and 3rd Level Details Workshop

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne

Natural patterns are unique, including the patterns of textures and pores on ridges, and creases in friction skin. As long as the source of the impressions is persistent between the depositions at the scene and later when standards are obtained, impressions can be examined to determine whether they share common origin. By examining the sequences and configurations of the details of features of the skin, the source of the questioned impression can be determined if sufficient quality and quantity of details are present in both images.

This workshop will include a discussion of unique natural patterns, the examination process, and then practical exercises emphasizing crease and third level ridge details examinations. Previous experience in any comparative science is beneficial for the student. **This workshop is also offered as W45, Thursday and W46, Friday.**

1:00 – 5:00pm - Room #557
W49 $70 (Basic Workshop)

Enhancement – Getting the Most from Your Latent Print

Mark Zabinski, CLPE, CSCSA
Criminalist II, Rhode Island State Crime Lab, Kingston
Edward T. Downing
Criminalist II, Rhode Island State Crime Lab
Scott Osborn
Senior Scientific Officer, Australian Federal Police, Weston, Australia

Latent print examiners routinely come across friction ridge detail that is either obscured by background interference or is need of image enhancement to increase contrast. This hands-on workshop has been designed to go step-by-step through the processes of digital imaging and enhancement techniques using tools available with Adobe Photoshop.

Over the course of the workshop the participant will gain an understanding of;

- Forensic Workflow
- Forensic Workspace Setup, including:
  - Image Handling
  - Preferences
  - Auditing
- Enhancement Processing Techniques, including:
  - Histograms
  - Adjustment layers
- Preparation for Output, including:
  - Image resizing

This workshop is designed to enhance the skill level of those working in the latent print analysis field and may also

be beneficial to those routinely using image adjustments in the course of their work. It is desirable that participants have a basic knowledge in regards to navigating their way around a windows operating environment and Adobe Photoshop, but not essential. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #553B
W96 $60 (Intermediate Workshop)

Developing a Composite Sketch and Forensic Art Certification

Stephen Mancusi, CFA
Chairman of the Forensic Art Certification Board, (Retired) Detective and Forensic Artist for NYPD - ForArtist LLC, New York

This is generally a sketching workshop. It is designed to speak to each artist's individual level of drawing skill. The three stage method of developing a composite sketch will be addressed and its versatility during a composite session is explored. This method may be the best way to visually understand why individuals look the way they do. Additionally, it is a proven technique in developing the victim/witness's words of description on an evolving composite sketch. This workshop will also address the information and drawing skill levels necessary to pass the forensic art certification written and practical testing procedure. Though this workshop is not mandatory for forensic art certification or recertification, it is strongly recommended. Each participant should bring his or her art equipment and drawing board. There will be limited art materials available. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #554B
W109 $40 (intermediate Workshop)

Bloodstain Pattern Analysis Research Club

Jeff Gurvis, CBPE
Bloodstain Pattern Analyst, Self-Employed, Arlington Heights, Illinois

This workshop will kick off an annual series that will be devoted to advancing the bloodstain pattern analysis discipline through the promotion of ideas and research. In this inaugural session, the goals and strategy of the Bloodstain Pattern Analysis Research Club (BPARC) will be defined and then the brainstorming and project selection begin. By the end of the workshop, projects and teams will be established and the research will be performed and reported on at next year's workshop. Interested attendees should be aware of the following:

- The IAI is not funding the research.
- Attendees should be prepared to attend each year so as to start research and subsequently present results.
- Attendees should have a minimum of a 40 hour basic class in Bloodstain Pattern Analysis.
- All research will be conducted between the Annual IAI Educational Conferences

The workshop will serve to promote ideas, form teams, help establish guidelines for experiments, and be a forum for presentation. Anyone with a passion for bloodstain pattern analysis is welcome to attend! This workshop is considered a group interaction workshop, not hands-on. **This workshop will not be repeated.**

1:30 – 3:30pm - Room #551A
W26 $35 (Basic Workshop)

How Does One Make a Lasting Impression?

Wade Knaap
Detective Constable, Toronto Police Forensic Identification Services, Ontario, Canada

This workshop is also offered as W25, Monday. The learning objectives are provided under W25.

1:30 – 5:00pm - Room #554A
W67 $40 (Intermediate Workshop)

Applying the Scientific Method to Bloodstain Pattern Analysis Using Practical Exercises

Michael Van Stratton CBPA, CLPE
Laboratory Director, Kansas Bureau of Investigation, Topeka
Holly Latham CBPA, CLPE
Forensic Scientist III, Kansas Bureau of Investigation, Great Bend

A bloodstain pattern analyst approaches a crime scene, and after careful consideration of the evidence, formulates a mechanism by which the stains were created in order to provide a reconstruction or sequencing of events. It is the duty of the analyst to be able to articulate how they analyzed the scene and arrived at their conclusions. Most analysts use the scientific method without being consciously aware of it. They make observations either at the scene or through photographs, formulate theories as to what happened, and then test those theories to draw conclusions. Most experts reach accurate conclusions but can not articulate how they reached the conclusion or the methodology that they utilized. It is imperative that analysts not only understand the scientific method but learn how to apply it to bloodstain pattern analysis. Attendees will be introduced to reasoning and the scientific method. Practical exercises will be given to provide examples of how the scientific method is applied to bloodstain pattern analysis. This is an intermediate level workshop and requires that attendees have a basic knowledge of bloodstain pattern analysis. **This workshop will not be repeated.**

8:00 – 8:30am - Ballroom B

A Crime Scene Snapshot: A Look into 1,227 Cases from Miami, Florida

Season E. Seferyn
Parentage DNA Analyst, Marshall University Forensic Science Center, Huntington, West Virginia

This presentation will examine 1,227 property crime cases from Miami, Florida. It will discuss how the project started, what evidence was collected, the laboratory procedures involved, which evidence led to DNA profiles/hits, and what occurred during the adjudication process including lengths of sentences, probation and restitution.

8:00 – 8:30am - Ballroom C

Is GNU Image Manipulation Program a Viable Alternative to Adobe Photoshop in Digital Footprint Measurement?

Sarah Reel
Consultant Forensic Podiatrist, Sheffield Teaching Hospitals, Harrogate, United Kingdom

Photoshop is often considered the 'industry standard' when measuring digital footprints for comparison in an identification context. Freeware alternatives to licensed software are becoming more common. This presentation will explore a free software measurement program as an alternative to Photoshop and debate whether or not it is a viable substitute for use in this field.

8:00 – 9:00am - Ballroom A

Research Study for the Reliability of the ACE-V Process; Accuracy, Precision, Reproducibility and Repeatability in Latent Fingerprint Examinations

Igor Pacheco, CLPE
Latent Examiner, Miami-Dade Police Department, Doral, Florida
Brian Cerchiai, CTPE
Tenprint Examiner, Miami-Dade Police Department, Doral, Florida

Over 100 latent print examiners (LPE) from various local, state and federal law enforcement agencies participated in a research study to evaluate and compare unknown latent impressions to known standards. Eighty (80) unknown latent impressions and ten (10) known fingerprint and palm print standards were evaluated in three (3) phases over a ten (10) month period. Each latent impression was assigned a difficulty rating based on several metrics, including quality and quantity of minutiae with over 5,900 suitability for identification determinations reported. Participants were presented over 6,100 ACE and 1,500 ACE-V trials and conducted a search of multiple fingerprint and palm print standards. Findings will be presented on sufficiency for identification determinations as well as the accuracy, precision, reproducibility, repeatability and bias-ability of results. The study will also make recommendations for improved practices in the field of friction ridge examination. This study was funded by the National Institute of Justice (NIJ) under their program for understanding the accuracy, reliability, and measurement validity of forensic science disciplines. (Award # 2010-DN-BX-K268)

8:00 – 9:00am - Ballroom D

Trends in Doing More with Less: Increasing Efficiency and Accuracy with Biometrics

Dave Klug
Director, Federal Business Development, MorphoTrak Inc.

This lecture will discuss how agencies can significantly enhance efficiency and increase the accuracy of biometric operations. Agencies can now leverage new and emerging biometric technologies like automated latent finger/palm print matching and automated border control to increase productivity and mission success. And how efficient and highly accurate biometric systems and operations keep program lifecycle costs low.

8:00 – 9:30am - Ballroom E

Beheading Epidemic: Islamist Groups & Mexican Gangs

Dawn Perlmutter
Director, Symbol & Ritual Intelligence

Decapitation is one of the oldest and most effective forms of psychological warfare. This training demonstrates the strategic, symbolic, ritual and propaganda applications of Islamist and Mexican beheadings. An analysis of the various functions of severed heads will be described inclusive of decapitation as trophy, presentation, sacrificial and judicial. The Taliban in Afghanistan, Abu Sayyaf in the Philippines, Al Shabaab in Somalia, Boko Haram in Nigeria and other groups continue the tradition of beheading as symbolic warfare. A detailed symbolic analysis of numerous ritual beheadings that reveal "beheading signatures" specific to the al-Qaeda network will be presented. This lecture will detail how Mexican gangs engage in beheading to intimidate local authorities and to instill fear in rival drug cartels. A symbolic analysis detailing the public display of severed heads, the positioning of mutilated bodies and accompanying narco messages will be presented. This lecture will also address how heads and other body parts are being utilized in the worship of the narco cult 'Santa Muerte'. Extremely Graphic

8:30 – 9:00am - Ballroom B

Identification Tests of Cartridge Cases Fired with Consecutively Manufactured Pistol Slides Based on Congruent Matching Cells (CMC) Method

Dr. Wei Chu
Guest Researcher, Department of Commerce, National Institute for Standards and Technology (NIST), Gaithersburg, Maryland

The National Institute of Standards and Technology (NIST) has developed the "NIST Ballistics Identification System (NBIS)" aimed toward accurate ballistic identifications and fast ballistics evidence searches. This presentation will address the "Congruent Matching Cells (CMC)" method proposed for high accuracy ballistics identifications.

8:30 – 9:00am - Ballroom C

The Development of a Tool for Assessing the Quality of Closed Circuit Camera Footage for Use in Forensic Gait Analysis

Ivan Birch
Professor, Sheffield Teaching Hospitals NHS Foundation Trust, England

Gait analysis is now widely undertaken from closed circuit television (CCTV) footage. A tool was developed to assess the suitability of CCTV footage for this purpose. The tool was shown to be a viable means of assessing the quality of footage for forensic gait analysis.

9:00 – 9:30am - Ballroom A

Developing Methods to Improve the Quality and Efficiency of Latent Fingermark Development by Superglue Fuming

Mark Dadmun
Professor Polymer and Physical Chemistry, University of Tennessee, Knoxville
Nicole McCleary
Associate Director, RTI International, North Carolina

This presentation will discuss experimental work that examines the growth process of cyanoacrylate polymer that occurs during latent fingerprints fuming. These results provide fundamental information needed to successfully identify the impact of controllable parameters, including temperature and hydration of aged prints, on the growth of polymer. Methods to improve the quality of fumed aged prints that are based on our fundamental understanding of the cyanoacrylate polymerization process during fuming will also be presented, including lowering the temperature.

9:00 – 9:30am - Ballroom B

2D/3D Topography Comparisons of Toolmarks Generated by Consecutively Manufactured Chisels and Punches

Robert M. Thompson
Program Manager-Forensic Data Systems, Department of Commerce, National Institute for Standards and Technology (NIST), Gaithersburg, Maryland

Toolmarks comparisons from tools that were consecutively made at the factory present the best "worst-case-scenario" for the examiner, and to determine identification/exclusion accuracy. This validation experiment describes the toolmark comparisons from chisels and punches using objective mathematical comparisons that measure the similarity of 3D topography in impressed marks (punches), and the 2D topography in striated marks (chisels). The results of these comparisons will be presented.

9:00 – 9:30am - Ballroom C

An Observational Field Study on the Prevalence of Transverse Plane Foot Positions in Adults – a use in Identification

Haydn D. Kelly
Consultant Podiatrist, London, United Kingdom

Forensic Gait Analysis is the recognition of a person by their gait or features of their gait. Expert evidence in this area was first presented in court legal proceedings in July 2000 by the author, at The Old Bailey Central Court, London. This presentation will provide data on the prevalence of transverse plane foot positions from the study undertaken of over 2000 individuals and with discussion on the relevance of these findings.

9:00 – 9:30am - Ballroom D

Skip the Scan…Streamlining the Electronic Comparison Workflow

Steve Scarborough, CLPE
Forensic Consultant, Las Vegas Metropolitan Police Department (retired), Mideo Systems, Las Vegas, Nevada

Advances in technology can now provide forensics with the tools to make the next big leap in forensic science: streamlining the Electronic Comparison Workflow. One new advancement is a seamless integration of NIST EBTS compiled tenprint cards directly into the electronic workflow. An effective Electronic Comparison Workflow includes smooth acquisition of images, effective and open access to digital assets, flexible software to facilitate the On-Screen Comparison of digital images, and the subsequent analysis and publishing of the results. The ultimate goal of the Electronic Comparison Workflow is to create a virtually paperless environment. An important aspect of that workflow is ingestion of ten prints as a digital file eliminating the print and scan process to digitize a ten print for on screen comparisons. The direct conversion of a NIST compatible ten print file facilitates this process and provides a number of distinct advantages.

10:30 – 11:00am - Ballroom A

Understanding the Concept of "Sufficiency" in Friction Ridge Examination

Cedric Neumann
Assistant Professor, Pennsylvania State University, University Park

Scientific and legal scholars regularly question the accuracy and reliability of the fingerprint examination process. One of the arguments is that examiners cannot describe precisely how the information observed on pairs of impressions is used to form their opinion. This presentation will report on a 2-years project designed to study the consistency between the quality and quantity of features annotated on a series of impressions and the decisions made at various stages of their examination.

10:30 – 11:00am - Ballroom C

The Development of a Bare Footprint Database

Dr. Claire Gwinnett
Senior Lecturer and Researcher in Forensic and Crime Science Forensic and Crime Science Department, Staffordshire University, Stoke-on-Trent, United Kingdom
Professor Wesley Vernon OBE
Head of Podiatry Service and Research Lead, Sheffield Teaching Hospitals, Visiting Professor Huddersfield and Staffordshire Universities, Sheffield, United Kingdom

This presentation will cover the importance of forensic data collections for the interpretation of evidence and the need for a bare footprint database for forensic podiatry casework. It will describe a collaborative project in which such a database is being produced and outline its design and the production and quality control methods being implemented. It will also discuss how this database will increase reliability in case interpretation and provide valuable information regarding population statistics.

10:30 – 11:00am - Ballroom D

Major Case Prints – What, Wherefore & Why and How?

John Dowden
Senior Product Manager, Biometrics Solutions Group, NEC Corporation of America

With the FBI NGI Increment 3 Operational Capability, State and Local Law Enforcement Agencies will now be interested in Major Case Prints. This presentation revisits the definition, features and benefits of Major Case Prints as well as the present and future capabilities of commercial AFIS and Livescan Stations supporting Major Case Prints.

10:30 – 11:30am - Ballroom E

AFIS – Is It Really A Match?

Kathleen Bright-Birnbaum, CLPE
Owner, Desert Forensics, Tucson, Arizona

This lecture shows what happens as AFIS databases get larger and more close Non-Matches occur. Without attentiveness to following proper methodology, you might make the next erroneous identification! Demonstrated is an actual 12-Point AFIS candidate from AFIS. Would "YOU" call it a match?

10:30am – 12:30pm - Ballroom B

Crime Scene Certification Board - Open Discussion

Moderator: **Domingo Villarreal, Chair**
Detective, Humble Police Department, Texas
Panel: **Crime Scene Certification Board Members**

This presentation will provide the attendee with the most current information on the Crime Scene Certification program. Topics will include certification requirements, new test materials, the testing process, recertification, student certification and the recently developed crime scene reconstruction program. Attendees will be afforded ample opportunity to address these and other issues with the panelists. The Crime Scene Certification Board open meeting will be immediately after the panel discussion.

11:00 – 11:30am - Ballroom C

Is it Cinderella, the Ugly Sister or Perhaps Both?

Jeremy Walker
Deputy Head of Podiatry, Sheffield Teaching Hospitals, South Yorkshire, United Kingdom

This presentation will use case studies to discuss the determination of multiple wearers of an item of footwear. When footwear has been linked with a shoe print, there is sometimes the need to link a suspect with the footwear, using foot impressions and features of wear. The deliberate wearing of another's footwear to commit crime and alibi that someone else wore the suspect's shoes to commit the crime, require consideration of multiple wearers.

11:00 – 11:30am - Ballroom D

Private Cloud – Security Challenges, Affordability and Answer to a Reliable and Modernized ABIS

Raffie Beroukhim
Vice President, Biometrics Solutions Group, NEC Corporation of America

Dedicated private clouds provide robust, cost effective platform to share IT resources within the government agencies. Identification technology has progressed from just being fingerprint matching solution to comprehensive multimodal solutions that can be delivered now as service on private cloud. This presentation addresses solutions to several challenges associated with cloud deployment like security, deployment, affordability, reliability, and manageability.

11:00am – Noon - Ballroom A

The Integration of Technology and ACE-V

Dr. Glenn Langenburg, CLPE
Forensic Scientists, Minnesota Bureau of Criminal Apprehension, St. Paul

This presentation presents several views on the nature of ACE-V applied to friction ridge examinations. The lecture will explore the history, present application, and possible future of ACE-V. We will see how technology has steadily infused itself into every aspect of ACE-V. What are the benefits and challenges of such? We will take a critical look at this process upon which we rely, and ask ourselves, "where are there opportunities to improve our practices with technology?"

11:30am – Noon - Ballroom C

The Identification of Individuals by Observational Gait Analysis Using Closed Circuit Television Footage

Ivan Birch
Professor, Sheffield Teaching Hospitals NHS Foundation Trust, England

Forensic gait analysis is increasingly being used to identify subjects from closed circuit television (CCTV) footage, despite a paucity of supporting evidence. This study investigated the abilities of practitioners to identify subjects using gait analysis based on CCTV footage, and found that it can be a valid strategy for subject identification.

11:30am – Noon - Ballroom D

Advances in Facial Identification – How Does it Empower Your Agency?

Kris Ranganath
Product Director, Biometrics Solutions Group, NEC Corporation of America

This presentation explains the latest advances in facial identification technology, and the application of this technology to enhance identification in both law enforcement and civil applications. This presentation discloses several practical approaches to incorporate facial identification in existing identification platforms to enhance accuracy and improve operational security.

11:30am – Noon - Ballroom E

Body Fluid Identification Using DNA Methylation

Joana Antunes
PhD. Student, Florida International University, Miami, Florida

Current serological methods aren't sensitive or sufficiently stable to detect aged or trace levels of body fluids. However, methylation of specific CpG sites in the genome can resolve this. We use bisulfite modification and pyrosequencing to identify nanogram levels of saliva, skin, blood or semen. This method, can resolve important questions on the origin of touch DNA.

1:00 – 1:30pm - Ballroom A

Feature Extraction and Temporal Analysis for Partial Fingerprint Identification

Dr. Lynn Abbott
Associate Professor, Bradley Department of Electrical and Computer Engineering, Virginia Tech, Blacksburg, Virginia

This presentation will describe a new procedure for extracting information from live-scan systems. These systems generate an image sequence (essentially a short video clip) during imaging. It is possible to track friction-ridge features throughout the sequence, and to construct a composite template that contains more genuine minutiae than are found in any single image from the sequence. Experiments have shown a significant improvement in recognition performance, especially when matching is performed using partial prints.

1:00 – 1:30pm - Ballroom E

Consider Research Results before Analyzing that Case

Susan Ballou
Program Manager for Forensic Sciences, Law Enforcement Standards Office (OLES), National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

The lecture will address several issues such as; the incorporation of lengthy shiftwork into the laboratory and how to impose rest and duty restrictions to mitigate errors. What does "K2", "Spice" and "Bath Salts" really mean and the results of a 2-year study by a NIST/NIJ working group on the tracking and storage of evidentiary material throughout the judicial process?

1:00 – 3:00pm - Ballroom B

Frontline Forensics

Hairie C. Haught, CLPE
President/CEO, Forensic Services, LLC, Land O' Lakes, Florida
William H. Schade, CLPE
Fingerprint Records Manager, Pinellas County Sheriff's Office, Clearwater, Florida

In April of 2012 the PBS show Frontline presented a program titled "The Real CSI, How reliable is the science behind forensics?" This program presented a number of criticisms of forensic science and received national media attention. The IAI and a number of other forensic organizations felt compelled to publish a response to this presentation by a respected news organization and members of the forensic community have been required to respond to these alleged problems in court. This 2 hour presentation will review the criticisms raised and discuss possible responses to the issues.

1:00 – 3:00pm - Ballroom C

Latent Print Certification Board (LPCB): Open General Meeting

Moderator: **Steve Howard, CPLE, LPCB Chair**
Senior Forensic Analyst, Forensic Identification Support Services, Ontario Provincial Police, Orillia, Ontario, Canada
Panel: **Certification Board Members**

This presentation will provide attendees with the most current information on the LPCB. The LPCB will publicly discuss issues relevant to the certification program and the entire fingerprint community. Attendees will have the opportunity to discuss relevant issues pertaining to the latent print certification program with the current LPCB.

1:00 – 3:00pm - Ballroom D

Biometric Information Systems (BIS) Subcommittee: Open General Meeting

Moderator: **Brian Finegold, Chair**
Panelists: **BIS Subcommittee Members**

The Biometric Information Systems Subcommittee will meet publicly to discuss issues relevant to the biometrics community.

1:30 – 2:30pm - Ballroom A

Status of Accreditation and Identification and Development Practices in the Fingerprint Field

Robert Ramotowski
Chief Research Scientist, Forensic Services Division, United States Secret Service, Washington, D.C.

A review of the results of a 2012 survey conducted by the European Network of Forensic Science Institutes (ENFSI) will be discussed. This survey examined the status of accreditation amongst ENFSI member laboratories. It also examined identification and development practices within each institute. All of these results have been tabulated and a summary will be presented during this session. In the second part of the presentation a new, modified set of identification and development surveys will be introduced to the IAI membership. The survey questions will be discussed and the overall objectives of this exercise will be presented. Procedures for accessing the survey questionnaires on-line will be provided. It is hoped that this joint effort between the IAI and the ENFSI will encourage additional collaborations in the future. The results obtained from the surveys will be shared at the next IAI conference in Minneapolis, MN in 2014.

1:30 – 2:30pm - Ballroom E

Killer Art: A Look at the Artwork of Murderers

Karen T. Taylor, CFA
Forensic Artist, Sculptor and Facial Identification Specialist at Facial Images; Texas Department of Public Safety (retired), Austin, Texas

This presentation offers a look at art produced by various killers from the perspective of a long-time forensic artist. Included will be artwork created by murderers with whom the presenter has had personal contact during her career. Not intended as a psychological assessment, it is rather a curated visual journey through the artistic expressions of highly disturbed artists. The controversial and problematic issue of art for profit as collectible "murderabilia" will also be explored.

3:00 – 3:30pm - Ballroom E

Wear is Wear

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne, Indiana

'General wear' as a 'class characteristic' is a concept being considered in the footwear and tire track community. Class characteristics are those features on a source that can be repeated. This lecture will consider the features on the source and then the lesser qualities and quantities of details that are or can be measured in impressions. Wear on the source is wear, no matter the levels of details of wear in the impressions. Actual wear varies on sources; therefore, wear should not be considered a class characteristic.

3:00 – 4:00pm - Ballroom A

You're on the Dogma Train and the Passenger Cars Are Full!

John P. Black, CLPE, CFWE, CSCSA
Senior Consultant, Ron Smith & Associates, Inc., Largo, Florida

Imagine enjoying a pleasant train ride through the countryside when your fellow passengers shout, "The bridge is out up ahead!" To make matters worse, the dogmatic engineer (perhaps a supervisor or 'seasoned' co-worker) shows no signs of switching tracks to avoid the impending crash because, after all, "that's the way it's always been done." This attitude – while unacceptable – thrives in many latent print units. If you feel like you're a passenger on the 'Dogma Train' then join us for this lecture to see how you can survive, or perhaps avoid, the crash.

3:30 – 4:00pm - Ballroom C

Social Media and the Expert Witness: Elephant in the Courtroom?

Sarah Watson
Supervising Forensic Identification Specialist, Los Angeles County Sheriff's Department, California

What is your social footprint as an Expert Witness? This presentation explores social media and how it affects the expert witness in court settings. D.A.'s and Defense Attorneys are checking up on the expert witness. Are you impeachable just by your personal Facebook or twitter account?

3:30 – 4:00pm - Ballroom D

Smart Phones – Are They the Next Generation Mobile ID Solutions?

Kris Ranganath
Product Director, Biometrics Solutions Group, NEC Corporation of America

Smart phones and tablets are now widely deployed in the law enforcement agencies. This presentation defines the requirements for smart phone based mobile identification solutions and some of the challenges in deploying these solutions. This presentation also outlines some of the available hardware options and the multimodal technology that will empower these mobile devices for field identification.

3:30 – 4:00pm - Ballroom E

Tire and Footwear Exemplars

Michael Perkins, CSCSA, CLPE, CFPH, CBPE
Crime Scene Analyst Supervisor, Las Vegas Metropolitan Police Department

This lecture will show how to collect tire and footwear exemplars for use in comparisons. The tire exemplars use an inexpensive polyester film and ink designed for this material. A hard rubber backing is also employed to assist in avoiding artifacts from the underlying surface. For footwear, a softer foamed rubber backing is used along with adhesive lifters. Also shown is a method to photograph sole patterns, and a quick reusable method for taking three dimensional exemplars of footwear.

3:30 – 4:30pm - Ballroom B

Laser Scanning for Crime Scene Documentation & Analysis

Greg Schofield
Crime Scene Drafting Technician, Toronto Police Forensic Identification Services, Ontario Canada

This presentation will cover the basic operating principles of Laser Scanners and how they can be integrated into the crime scene documentation process. It will also look some of the strengths and weaknesses of these systems and case examples of how scanning data has been used in support of analytical processes including ballistics, height determination and bloodstain documentation.

4:00 – 4:30pm - Ballroom D

Mobile Identification in the UK - A National Framework

Michael Hollowich
Executive Vice President, 3M Cogent, Inc.

Formally launched in July 2011, the aim of the MobileID Service is enabling police officers from various agencies nation-wide to identify individuals by their fingerprints in real-time. This presentation will provide an overview on the program architecture and framework. Through the presentation of success cases, the attendees will see the various benefits of adopting Mobile ID in their "Policing Technology Portfolio" and examples of how MobileID is being used along with other technologies.

4:00 – 5:00pm - Ballroom A

You Mean There's Another Way? Alternate Latent Print Workflows

Penny Dechant, CLPE
Criminalist / Latent Print Technical Leader, Arizona Department of Public Safety Crime Laboratory, Phoenix
Eric Ray, CLPE
Criminalist, Arizona Department of Public Safety Crime Laboratory, Phoenix

Do you compare every latent print to every suspect and every victim? Do you analyze latent prints that you never compare or never enter into AFIS? Are there alternatives to these standard workflows? Over time Latent Print Units develop their own set of protocols that fit the needs of their agency and their customers. Many examiners are surprised when they talk to examiners from other agencies and discover a wide variety of practices and policies in different parts of the country. This presentation will explain some of the unique policies that the Arizona Department of Public Safety has in place to operate more efficiently. Value grouping or limited comparisons can be administrative decisions to improve the efficiency of a Latent Print Unit but must be implemented in a strategic way that still meets accreditation standards.

4:00 – 5:00pm - Ballroom C

Preparation for Bloodstain Pattern Analyst Certification

Michael J. Van Stratton, CBPA, CLPE
Laboratory Director, Kansas Bureau of Investigation, Topeka, Kansas

For years the International Association for Identification has been a forerunner in providing certification programs to meet the needs of the forensic science community. Today based on recommendations from the National Academy of Science report, there has been a new emphasis placed on certification of individuals in their respective forensic science discipline. This lecture will provide a history of the bloodstain pattern certification process, requirements, and recommended readings and how to prepare for taking the Bloodstain Pattern Analyst certification test.

4:00 – 5:00pm - Ballroom E

ACE-V for Footwear Impression Evidence Comparisons

Cindy Homer, CLPE, CFWE, CCSA
Forensic Scientist, Maine State Police Crime Laboratory, Augusta

In the United States, ACE-V (an acronym for "Analysis, Comparison, Evaluation and Verification") is a term more commonly associated with friction ridge skin impression comparisons. ACE-V is a comparison methodology applicable for all types of impression evidence. This lecture will show how ACE-V is applied specifically to footwear impression examinations.

4:30 – 5:00pm - Ballroom B

Identify the Missing

Christen Eggers
Lead Investigator for the Unidentified Program and Medicolegal Death Investigator, Maricopa County Medical Examiner's Office, Phoenix, Arizona

This presentation will provide a detailed explanation of the exhumation process and present summary data on the identifications. Ten scientific identifications have been made as a result of our effort with four other cases with solid leads. Multi-disciplinary efforts are coordinating into successful resolutions as the end goal is to make the identification and notify family. While these cases are very challenging they are solvable with appropriate resources.

8:00 – 11:00am - Room #555B
W75 $40 (Basic Workshop)

Is It Human? Distinguishing Human from Non-Human Skeletal Remains

Tammy Barette
Forensic Biology Program Director, Keystone College, La Plume, Pennsylvania

Skeletal remains are frequently encountered in a variety of forensic contexts. It is crucial that human remains be distinguished from non-human remains early in the investigative process to reduce wasted time, expense, and manpower. Our ability to recognize the structural and developmental patterns of the skeleton and to utilize those patterns enables us in distinguishing human from non-human remains. In many forensic contexts, identification of skeletal remains as non-human is the final determination precluding lengthy and unnecessary death investigation processes.

This workshop is designed for law enforcement, crime scene technicians, death investigators, and others who may encounter skeletal remains in the course of their duties. The workshop is designed to assist participants with field recognition of skeletal remains of various species that may commonly be encountered in North American forensic contexts, and to be able to distinguish them from human skeletal remains. This workshop will not make the participant an expert in skeletal identification and should not be substituted for the expertise of a trained osteologist or forensic anthropologist. Attendees need not have previous training in skeletal remains. **This workshop will not be repeated.**

8:00am – Noon - Room #552A
W6 $50 (Intermediate Workshop)

Trace Evidence Discovery and Collection

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

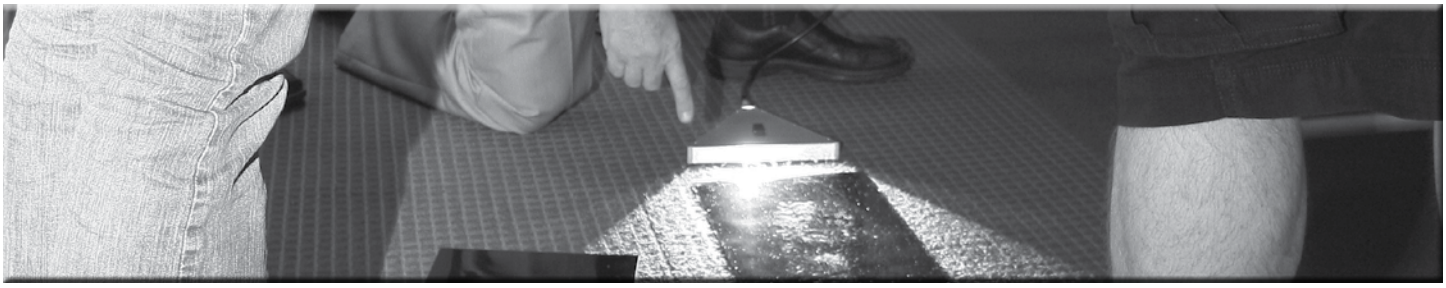
Trace Evidence Discovery & Collection will discuss the various collection methods, identification and procedures for the recovery of trace evidence, using a hands-on approach. The discovery and collection methods used will employ the use of the Mega-Max Alternate Light Source System, 30 various sample types and a team approach to the identification of trace evidence with the alternate light source. Discovery & collection methods will include UV Light, rollers, tapes, tweezers and vacuums. **This workshop will not be repeated.**

8:00am – Noon - Room #556A
W15 $60 (Intermediate Workshop)

Articulating the Mental Comparison Process of Fingerprint Examination

M. Leanne Gray, CLPE, CFWE
Gray's Forensic Fingerprint Training and Consultation, Stoughton, Wisconsin

This workshop is also offered as W14, Tuesday. The learning objectives are listed under W14.



8:00am – Noon - Room #551B
W33 $60 (Intermediate Workshop)

Examination of Footwear Impression Evidence from Outsole Design to Identification

William J. Bodziak, CFWE
Owner, Bodziak Forensics, Palm Coast, Florida

This four-hour workshop will include the four separate areas involved during the forensic comparison between a shoe outsole and a footwear impression recovered from a crime scene. First the protocol for establishing the correspondence or non-correspondence of design and size will be addressed. This will include some information on manufacturing as well as case illustrations ranging from conclusions of association of only a limited design to those where sufficient evidence exists to link the impression and shoe outsole to the same mold source. Then the area involving the condition of general wear of the outsole will be addressed including eliminations and inclusions using general wear and issues and concerns involving the appropriate evaluation of this area. Finally, the use and evaluation of randomly acquired individual characteristics to establish identification of a shoe will be covered both in lecture and case examples. Conclusions will utilize the newly established SWGTREAD Standard for expressing conclusions as well as a step-by-step method of approaching and documenting the entire examination. Some casework exercises for each attendee will be included. **This workshop will not be repeated.**

8:00am – Noon - Room #550AB
W42 $60 (Intermediate Workshop)

Examination of Bodies for Fingerprints – Proven Methods, Tried and True

Brian Dalrymple, CLPE
President, Brian Dalrymple and Associates, Coldwater, Ontario, Canada
Lorene E. Moore, CLPE
Latent Print Supervisor, King County Sheriff's Office, Seattle, Washington

This workshop is also offered as W40 and W41, Tuesday. The learning objectives are provided under W40.

8:00am – Noon - Room #557
W50 $70 (Basic Workshop)

Latent Print Enhancement – The Next Step

Scott Osborn
Senior Scientific Officer, Australian Federal Police. Australia.
Mark Zabinski, CLPE, CSCSA
Criminalist II, Rhode Island State Crime Lab, Kingston
Edward T. Downing
Criminalist II, Rhode Island State Crime Lab

This workshop has been designed to provide latent print examiners with a wider skill-set of digital imaging techniques. You will look at steps and procedures to optimise the recovery of latent print evidence from a range of challenging background interference's. Techniques covered include the use of smart objects and stack modes, image modes such as lab color and the use of calculations to maximise the recovery important latent print detail.

On completion of this unit, you will be able to:
- Confidently use Photoshop software to optimise latent fingerprint recovery;
- Use critical thinking, proactive planning to work efficiently;
- Clearly communicate outcomes of your enhancements with others

This workshop is designed to enhance the skill level of those working in the latent print analysis field and may also be beneficial to those routinely using image adjustments in the course of their work.
It is desirable that participants have a basic knowledge in regards to navigating their way around windows operating environment and Adobe Photoshop. **This workshop will not be repeated.**

8:00am – Noon - Room #554A
W71 $40 (Advanced Workshop)

Photography of Bloodstain Patterns

Roger Brooks, CBPE
Detective, City of Danbury Police Department, Connecticut
David J. Doglietto, CSCSA
Senior Investigator, California Department of Corrections and Rehabilitation, CTF-Soledad, State Prison, California

Photographic documentation, whether digital or film, is the most commonly used method of showing the analyst and the jury the scene and the evidence of violent crimes. The images must be a true and accurate representation of the scene or evidence. The examination of the images by the analyst for the purpose of assisting the reconstruction of the crime scene requires accurate scale and perspective. This workshop is designed for crime scene technicians and laboratory technicians who have the function of visually recording the scenes and evidence of violent crimes involving blood patterns. The workshop will give the participant knowledge of the methods and techniques of photography specific to the photographic documentation of bloodletting scenes and photographic documentation of bloodstained evidence, whether at the scene or in the laboratory. Attendees are encouraged to bring a camera and tripod. **This workshop will not be repeated.**

8:00am – Noon - Room #555A
W99 $40 (Advanced Workshop)

Crime Scene Staging: Early Detection, Analysis, and Crime Scene Reconstruction

Dr. Laura Pettler, CSCSA
Owner, Carolina Forensics, LLC, Waxhaw, North Carolina
Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces, Inc. Pensacola, Florida

Any deliberate effort made before police arrive to alter the pristine state of the crime scene specifically to thwart successful investigation and frustrate the overall process is the essence of crime scene staging. Crime scene staging might be increasing due to crime scene-related media popularity and because individuals think they know how crime scenes should look. This presentation focuses on the benefits of early evidence identification, collection, and preservation grounded by empirical findings through sophisticated, scientific research methods, towards undermining the efforts of the would-be crime scene stager. Additionally, coupled with an early detection approach, this presentation focuses on evidence documentation for eventual reconstruction, which could ultimately help refute suspect claims when used within a multi-disciplinary, research-based, empirical methodology. **This workshop will not be repeated.**

8:00am – Noon - Room #553B
W102 $50 (Intermediate Workshop)

Latent Print Testimony 201 Workshop

Melissa R. Gische and Beth Underwood
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

With the 2011 revision of the Federal Rule of Evidence governing expert testimony (FRE 702), expert witnesses now need to provide a basis for their opinion by demonstrating that their testimony relies on sufficient facts or data as well as how their testimony is the product of reliable principles and methods. Through presentations and group discussions, participants will discuss how to rely on published research and best practices to support the scientific reliability of friction ridge evidence during direct testimony. This 4-hour workshop is designed for latent print examiners with several years of experience or a basic knowledge of current topics impacting the discipline and is part two of a three part series (Latent Print Testimony 101, 201, and 301). The workshops are designed to build upon one another; however 101 is not a perquisite to attend this workshop. This workshop is considered a group interaction workshop, not hands-on. **This workshop will not be repeated.**

8:00am – Noon - Room #551A
W104 $40 (Basic Workshop)

To Process or Not to Blood Process?

Shannon E. Prince and Christine Davis
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation Laboratory, Quantico, Virginia

This workshop is a bloody good idea! All the questions regarding latent print blood processing will be discussed. Do I process for latent prints in blood at the crime scene or in the laboratory? What blood process do I use? Do I superglue fume the evidence before I process the blood print? What blood process do I use on dark surfaces? Can I use a presumptive blood test for friction ridge detail? How do I process the adhesive side of tape that has a latent print in blood? Can I use a white gel lifter to visualize the developed blood print? What is more effective – Merbromin or Coomassie Brilliant Blue? Does anyone still use Crowle's Double Stain?

This workshop includes a lecture on the various types of latent print blood processing techniques. Next, the students will process various kinds of "evidence" to determine which blood process provides the best result. Then, they will be able to "experiment" with the types of latent print blood processing techniques, the order in which to utilize the techniques, and the means to visualize and capture the latent prints. Finally, students are encouraged to share their experiences and tips regarding blood processing. **This workshop will be repeated as W105 following this workshop.**

8:00am – 12:30pm - Room #554B
W68 $40 (Intermediate Workshop)

Examination of Bloodstain Patterns on Clothing

Michael J. Van Stratton, CBPE, CLPE
Laboratory Director, Kansas Bureau of Investigation, Topeka, Kansas
Tom "Grif" Griffin, CBPE, CSCSA
Forensic Consultant, Bevel, Gardner and Associates Inc., Greeley, Colorado

The role of the bloodstain pattern analyst does not stop with the documentation of bloodstain patterns at the crime scene. The examination of bloodstained clothing can provide a wealth of information regarding the position of the victim at the time bloodshed is occurring, as well as, are the bloodstains on the clothing of the suspect consistent with their reported actions. Examination of bloodstained clothing can provide a challenge to the bloodstain pattern analyst. Issues involving contamination, fabric texture, and pattern identification are all problems that the analyst must contend with.

This class will give some insight into the proper preservation of bloodstained clothing, documentation of clothing through sketches, notes and photographs, pattern identification, reconstruction and how to assist the forensic biologist in determining which bloodstains should be collected for biological examination. Those participating will have the opportunity to examine clothing samples for bloodstain patterns, directionality and the effects of fabric texture. **This workshop will not be repeated.**

8:00am – 5:00pm - Room #556B
W20 $50 (Advanced Workshop)

Preparing for the IAI Latent Print Certification Examination

Kathleen Farrell, CLPE and Mack Brazelle, CLPE, CCSI
Treasury Inspector Generals for Tax Administration (TIGTA) Forensic Science Laboratory, Beltsville, Maryland

There are many people qualified to take the IAI Latent Print Certification Exam but have not done so. The goal of this workshop is to give examiners the motivation and confidence to take the first step. This workshop will guide examiners through the certification requirements, application process and preparing for each of the four parts of the examination (pattern interpretation, written exam, latent comparisons and case for review). Through lecture and group exercises examiners will learn how to increase their speed in order to successfully complete the exam. The instructors will equip the students with knowledge, strategies, and helpful tips that will enable the students to approach the exam with confidence and an enhanced chance for success. **This workshop will not be repeated.**

8:00am – 5:00pm - Room #552B
W76 $60 (Intermediate Workshop)

Forensic Facial Approximation Sculpting Workshop

Wesley Neville, CFA
Visual Information Specialist, Federal Bureau of Investigation Laboratory, Quantico, Virginia

Guidelines for Forensic Facial Approximation have undergone sweeping changes in the past decade. Students will learn step-by-step procedures to create an accurate representation of an individual based on current research, anatomical observation, and up-to-date tissue depth tables. The FBI Laboratory has collected 3D digital scans of over 100 skulls from the University of Tennessee Donor Collection with corresponding "life" photos of the individual. Sixteen of these skulls will be utilized for this class. Each student will sculpt from a unique skull, and will be able to compare their sculpture with the "life" photo of the individual at the end of class. Class size is limited to sixteen students. **This workshop will not be repeated.**

9:00am – 4:00pm - Room #553A
W35 $40 (Basic Workshop)

ISO 17020:2012- The Accreditation Standard for Police Forensic Sciences – Now Newly Updated

Frank Fitzpatrick
Accreditation Lead Assessor, ANSI-ASQ National Accreditation Board/Forensic Quality Services, Tampa, Florida

Increasingly, accreditation of crime laboratories has been accepted over the last decade and ISO 17025 is currently considered the de facto standard. While this standard is designed for "testing" laboratories, some police agencies with Crime Scene Investigation, Latent Print, Digital Evidence and Firearms operations have also used ISO 17025 since it was the only applicable international standard offered by accreditation bodies in the United States. Traditional police science activities do not fit well into the testing laboratory mode since it is designed for more traditional chemical laboratories. ISO 17020 fits these activities better yet still requires rigorous management and technical quality assurance standards.

This workshop is designed for supervisors, unit managers, quality assurance managers and anyone responsible for method and policy development. The workshop will discuss the critical ISO 17020 standards needed for developing a robust quality assurance program by exposing the participants to the principles of ISO accreditation and audit principles. ISO 17020 will be applied specifically to police forensic science disciplines such as latent prints and crime scene investigation. The additional requirements of Forensic Quality Services will be discussed. This workshop is considered a group interaction workshop, not hands-on. **This workshop will not be repeated.**

12:30 – 2:30pm - Room #555B
W91 $30 (Advanced Workshop)

Advanced Photography: Affordable Tips and Tricks

Alison Hutchens, CCSA
Forensic Services Supervisor, Durham Police Department, North Carolina
Kristilyn Baldwin, CCSA
Crime Scene Technician II, Chandler Police Department, Arizona

Have you ever been faced with having to photograph a shoe impression or a latent print that is barely visible on a surface? Found a latent print on a reflective or clear surface? Photography is a vital step in preserving evidence before it is enhanced or collected. Photographs may be your only chance to preserve these valuable clues. This workshop is designed for crime scene investigators who are tasked with preserving evidence through photography. Students will be shown various techniques for capturing quality images in difficult situations. Students will also be provided with information on low or no-cost materials to assist with these techniques.
This workshop is also offered as W92 following this workshop.

1:00 – 3:00pm - Room #552A
W7 $30 (Advanced Workshop)

UV and IR Gunshot Residue Photography

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

Gun Shot Residue (GSR) preservation through infrared and ultra-violet photography will be used in this hands-on approach for the photographic capture of GSR evidence. Students will work in teams using UV/IR photographic equipment to recover GSR photographically. **This workshop will not be repeated.**

1:00 – 4:00pm - Room #553B
W98 $30 (Intermediate Workshop)

Evidence Identification: Quicker, Faster, Better

Charles James
Creative Director, FISH Digital Forensics
Michael Thorsted
President, Night Vision Systems Division, Syntronics, LLC
Robert Moran
Senior Forensics Engineer, Syntronics, LLC

This workshop will show students how to significantly improve identification services by combining a modern image capturing UV-IR 15mp camera and file management system with people and process improvement. This ground breaking process is currently being used at the federal levels to process evidence more quickly and efficiently. The full spectral imaging system will capture a 16mp resolution image at 1000 PPI, from the UV to the IR. The workstation is the most advanced electronic latent fingerprint system in the world.

This hands-on workshop will show the experience of using current technology to capture and save images, improve processing times and identify new ways of processing evidence. Topics will cover the use of a change program to improve staff motivation and technology implementation. It will also summarize recent experiences at TEDAC and other agencies. Short demonstrations will highlight the ease and speed of finding and capturing evidence, and the following it through the storing and management of the digital evidence. The visual impact of images and the dashboards in managing work flows is state of the art. This class is targeted at those who want to eliminate backlogs, offer a 'Golden Hour' identification service and take on the challenges of 'More for Less'. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #556A
W12 $60 (Intermediate Workshop)

Friction Ridge Sufficiency: The Threshold?

Julie Brownfield, CLPE
Forensic Lead Specialist, Forensic Unit, Spokane County Sheriff's Office, Washington

This workshop is also offered as W11 Monday and W13 Thursday. The learning objectives are provided under W11.

1:00 – 5:00pm - Room 551B
W30 $40 (Advanced Workshop)

Determination of Simultaneous Impressions

Sandra Siegel, CLPE
Latent Print Supervisor, Forensic Division, Austin Police Department, Texas

Simultaneous impressions are described as two or more prints deposited by a single touch. The determination of simultaneity may permit the examiner to understand how an object was touched or held. This can be used to help to narrow the examination process or AFIS searches. The analysis of these impressions is a complex task. The objectives of this workshop are to advance the understanding and recognition of simultaneous prints. Using existing skills the students will gain greater confidence in determining simultaneous impression. Topics of discussion: SWGFAST Guidelines and Patterson vs. Massachusetts Common Wealth. Documentation Prior experience with comparing latent prints and the study of distortion will be helpful. A practical exercise will follow the presentation. **This workshop is also offered as W31, Thursday.**

1:00 – 5:00pm - Room #557
W34 $70 (Intermediate Workshop)

Investigating the Concept of Sufficiency in Latent Print Examination

Cedric Neumann
Assistant Professor, Pennsylvania State University, University Park
Dr. Glenn Langenburg, CLPE
Latent Print Examiner, Bureau of Criminal Apprehension, Saint Paul, Minnesota

Scientific and legal scholars regularly question the accuracy and reliability of the fingerprint examination process. One of the arguments is that examiners cannot describe precisely how the information observed on pairs of impressions is used to form their opinion. During this workshop, we will ask participants to examine a series of latent/control impressions and to annotate the quality and quantity of information in agreement/disagreement in each comparison. A new version of the web-based Picture Annotation Software (PiAnoS) will be used to record the participants' observations. The information will be used to explore the concept of sufficiency when making determinations during the analysis stage and when forming conclusions at the end of the evaluation stage. During this workshop, participants will learn how to use the most recent SWGFAST standards and scientific data to explain, support and defend the determinations and conclusions that they form in any given case based on the case-specific observations. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #554A
W72 $40 (Advanced Workshop)

Bloodstain Pattern Analysis from Crime Scene Photographs

David J. Doglietto, CSCSA
Senior Investigator, California Department of Corrections and Rehabilitation, CTF-Soledad, State Prison, California
Roger Brooks, CBPE
Detective, City of Danbury Police Department, Connecticut

The use of digital images or photographs by the analyst for the purpose of reconstruction of an event or scene can be problematic when the images submitted were taken by technicians not knowledgeable in the proper methods or procedures for documenting bloodletting scenes. This unfortunately is common. This workshop will assist the analyst by illustrating what can or cannot be accurately determined from digital images or photographs. Knowledge of the reliability and the value of the images shown in the pictures is a necessity. Two actual case files consisting of the photographs and submitted documentation will be made available for the workshop participants to use as case studies. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #550AB
W90 $40 (Intermediate Workshop)

Rods, Strings and Lasers

Christopher Duncan, CFPH, CSCSA, CBPE
Crime Scene Investigator, Houston Police Department: Houston, Texas
Andrew Taravella, CFPH, CCSA
Crime Scene Investigator, Houston Police Department: Houston, Texas

The photographic documentation of shooting incidents can be quite involved and difficult at times. However, capturing accurate and meaningful photographs of the crime scene can be the determining factor in being able to replicate the scene for the jury. As part of the documentation process, capturing photographic images of the approximate flight paths of fired projectiles can help investigators, prosecutors, and jurors alike understand the events that transpired during a shooting incident. Investigators have routinely used dowel rods, fluorescent colored strings, and lasers to reconstruct shooting scenes. This presentation will demonstrate both commercially available shooting reconstruction kits, as well as provide instruction on building one's own inexpensive shooting reconstruction kit. Students will be given hands-on instruction in photographing bullet trajectories using trajectory rods, strings, and lasers. An emphasis will be on photographing lasers, both in low-light and daytime environments, in order to represent the flight paths of fired bullets. Students will need to bring an SLR camera, tripod, and cable release to the workshop. Because lasers come in a variety of light intensities, participants may desire to bring their personal lasers for the practical exercises. However, instructors will have some lasers for participants to use. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #555A
W95 $40 (Intermediate Workshop)

Document Imaging

Richard T. McEvoy, Jr., CFPH
President, Forensic Imaging, Inc., Victor, New York
Charla Janney
President, Charla Janney and Associates, Inc.

This workshop will consist of a brief one hour lecture and three hours of hands-on exercises by the student. The workshop will cover the choosing and set-up of both scanners and camera equipment for use in various types' document examinations. Correct color balance and resolution choices will be emphasized as will light quality. Cameras will be used for practical exercises. Exercises will consist of the use of visible spectrum, UV (reflected & fluorescent) and Infrared (reflected & luminescent), for extreme macro photography of normal and indented writing and raised seals as well as obliterations. Attendees must supply their own camera and lens capable of doing macro work as well as a tripod (a limited number of Quadrapods will be available). A flash capable of being used off camera should, also, be brought. Attendees should have a good understanding of how to operate their cameras. Attendees are welcome (and encouraged) to bring their own laptop computers to class for the exercises. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #551A
W105 $40 (Basic Workshop)

To Process or Not to Blood Process?

Shannon E. Prince and Christine Davis
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation Laboratory, Quantico, Virginia

This workshop is also offered as W104 prior to this workshop. The training objectives are listed under W104.

1:00 – 5:00pm - Room #554B
W112 $40 (Basic Workshop)

Bloodstain Patterns: Size, Shape and Surface Considerations

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida
Dr. Laura Pettler, CSCSA
Carolina Forensics, LLC, Waxhaw, North Carolina

Bloodstain pattern recognition and identification are important pieces of the puzzle when attempting to reconstruct events that occur in violent crime scene. This workshop will provide hands-on experience with scientific experiments that demonstrate the final appearance of blood on various targets. These experiments were designed to demonstrate the effects blood deposited on various surfaces, at various heights, and at various angles. A review of the Recommended Bloodstain Pattern Terminology and requirements for the IAI Bloodstain Pattern Certification, as well as bloodstain pattern case studies will also be presented in this workshop. This workshop is geared towards crime scene technicians, investigators, detectives, medical examiners and/or medical examiner investigators, as well as laboratory analysts and other forensic professionals associated with crime scene investigation. Safety Note: Aprons, gloves, safety glasses, and masks will be provided for students enrolled in this workshop. Non-human blood will be utilized for the experiments. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #555B
W92 $30 (Advanced Workshop)

Advanced Photography: Affordable Tips and Tricks

Alison Hutchens, CCSA
Forensic Services Supervisor, Durham Police Department, North Carolina
Kristilyn Baldwin, CCSA
Crime Scene Technician II, Chandler Police Department, Arizona

This workshop is also offered as W91 prior to this workshop. The learning objectives are provided under W91.

8:00 – 9:00am - Ballroom C

Sacco Vanzetti vs. JFK Assassination: A Comparison of the Firearms Evidence

Gregory B. Bailey
Assessor, Self-employed, Berkley, Michigan

The Sacco Vanzetti case the JFK assassination were both high profile cases that involved the comparison of forensic firearms evidence and controversies about the results of those examinations. This presentation will review the firearms evidence presented in both cases, the results of those examinations, and the challenges made to the examination results. Conspiracy theories, some politically motivated, pertaining to the firearms evidence will be examined.

8:00 – 9:00am - Ballroom E

The Science of Footwear Impression Comparisons

Cindy Homer, CLPE, CFWE, CCSA
Forensic Scientist, Maine State Police Crime Laboratory, Augusta

This lecture will introduce the audience to the basic definitions of science and how the footwear impression discipline can claim to be scientific in nature. It will cover such topics as the differences between traditional science and applied science, science versus non-science, what makes something scientific and in the end, why the footwear impression comparison discipline possesses the essential qualities of a scientific discipline.

8:00 – 9:30am - Ballroom A

Rules of Thumb: Navigating the Changing Landscape of Fingerprint Evidence

Henry Swofford, CLPE, CFWE, CCSI
Research Coordinator, Latent Print Branch, Defense Forensic Science Center, United States Army Criminal Investigation Laboratory, Forest Park, Georgia
Jessica D. Gabel
Assistant Professor of Law, Georgia State University College of Law, Atlanta
Melissa, Gische, CLPE
Physical Scientist/Forensic Examiner, Federal Bureau of Investigation, Quantico, Virginia
William G. Doyne, CLPE, CFWE
Technical Lead, Latent Print Branch, Defense Forensic Science Center, United States Army Criminal Investigation Laboratory, Forest Park, Georgia

Fingerprint evidence has come under fire in the last 15 years, becoming the focus of intense scrutiny from both legal and scientific communities. As a result, fingerprint experts are now confronted with a new dynamic of expert testimony, characterized by challenges extending beyond the case at hand to the overall epistemology of the science. These challenges have served as the impetus for change, helping evolve the practices and testimony of fingerprint examiners. While embracing the shifting paradigm, however, many examiners are still left with questions on how best to manage their testimony when faced with such challenges. This discussion will cover a brief overview of the evolution of the various challenges and practices related to the science of fingerprints, review current developments in both the law and the science, and discuss future trends and best practices for fingerprint examiners. Further, participants will be afforded an opportunity to either publically or anonymously interact with the panel members and are encouraged to raise specific questions about challenges currently being experienced. Topics for discussion may be anonymously submitted to panel participants during the course of the presentation. Disclaimer: The opinions or assertions contained herein are the private views of the authors and are not to be construed as official or as reflecting the views of the United States Department of the Army, United States Department of Defense, or United States Department of Justice.

8:00 – 9:30am - Ballroom B

Bloodstain Pattern Analysis: Segments of History

Dr. Laura Pettler, CSCSA
Owner, Carolina Forensics, LLC, Waxhaw, North Carolina

What's the name of the first bloodstain document published in the US? Beginning with Cain and Abel, bloodstains have told a story. This lecture will focus on the segments of bloodstain pattern history and how historical bloodstain theory applies to those who practice this discipline today. Piotrowski's work and other historical literary landmarks in BPA will be discussed. Material for this lecture is provided by Dr. Hebert Leon MacDonell, a pioneer in the discipline and former Historian of the IABPA.

8:00 – 9:30am - Ballroom D

Latent Print Search Strategies

Melissa K. Taylor
Management and Program Analyst, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

Access to the databases at the FBI NGI and to other interoperable AFIS will provide the latent print examiner with unparalled access to new and improved databases. This access may require the adoption of new practices as examiners and supervisors look for methods to build efficiencies in their processing to take advantage of these new capabilities. This session will involve the audience in discussions of the various latent print search strategies that can be used with modern AFIS systems. The strategies will include a detailed discussion on tailoring AFIS candidate list size in accordance with the target AFIS capabilities, types of latent (fingerprint, palmprint, tips, and middle joints), and case priorities and latent image quality. A conceptual framework for use of the various strategies will be presented. This session will engage the audience as participants to identify areas for future examination and possible testing as part of the development of a more effective business process for latent operations.

9:00 – 9:30am - Ballroom C

Using Digital Imaging Tools to Enhance Restored Serial Numbers

Gregory E. Laskowski
President, Criminalistics Services International, LLC, Bakersfield, California

Many valuable objects have serial numbers, so that should they become lost or stolen, then are later recovered, the manufacturer or owner can be identified. These numbers can be stamped etched, inscribed, or engraved. The processes used to restore removed or obliterated serial numbers are mainly by mechanical action followed by some form of chemical, electrochemical, magnetic, and by heat. In some cases, the restored serial numbers are clearly visible, while in many instances there are only partial numbers that can be visualized or the restored numbers are barely visible or legible. The introduction of digital imaging technology can assist the examiner in enhancing the visibility of restored serial numbers through a series of software tools available through such standalone photographic programs as Adobe Photoshop™ or an integrated program offered by Mideo Systems in their CASEWORKSeis™. This paper will discuss the use of the imaging tools available in CASEWORKSeis™ to enhance and record restored serial numbers in observed in casework.

9:00 – 9:30am - Ballroom E

A Pro-Active Approach to Utilizing Footwear Evidence

Michael Gorn, CCSI
Forensic Supervisor, Sarasota County Sheriff's Office, Florida

This presentation will discuss how to maximize the use of footwear evidence at the investigative stage of a case. Prior to taking a new look on how to further use this form of evidence, footwear impressions recovered from crime scenes were likely not utilized unless a pair of shoes was submitted for comparison. Limited information was provided at the beginning of a case to assist in the investigation. By taking a more pro-active approach, strong investigative leads can be generated and information developed that could assist in petitioning a court to seize a pair of shoes from a possible suspect. These steps can include footwear databases used in a similar manner as other databases of forensic evidence. It can also include scene linking and the sharing of information between various sources. Case examples will demonstrate how specific steps generated good leads that may not have been previously captured.

9:30 – 10:00am - Ballroom A

Nature's Patterns are Unique – Still Our Foundation

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne, Indiana

'Nature's patterns are unique' is a law of science. Our experiences, understandings, and judgments within self and among many scientific communities support this law. There are no limitations of this law. No patterns in nature have ever been found to have been replicated. As long as the law is part of the examination process, it should be recognized. Terms and mathematics that are applied to nature's patterns are used for communicating and measuring, yet hinder the awareness of actual natural uniqueness. This lecture will support the law and challenge criticisms of it.

10:00 – 10:30am - Ballroom A

Upgrading Training and Assessment Items for Fingerprint Technicians in the Technological Age

Peter A. Condoleon
Senior Sergeant, Training and Research Section, Queensland Fingerprint Bureau, Queensland Police Service, Australia

The Queensland Fingerprint Bureau has undergone considerable change in the last two years with the implementation of digital workplace processes. Training needs have been aligned with this new technology to reflect the identification process being conducted in the workplace utilising new tools. This presentation will outline the new training and assessment packages at the Queensland Fingerprint Bureau, that develop reliable comparison and identification skills, to perform duty in today's changing forensic workplace and beyond.

10:00 – 11:00am - Ballroom B

That Looks Odd…Dealing with a Staged Crime Scene

Patrick Warrick, CLPE, CSCSA
Forensic Scientist Technical Leader, Minnesota Bureau of Criminal Apprehension, Bemidji, Minnesota

This case study of a homicide in Minnesota will present several aspects of the crime scene that were confusing at times and left the crime scene team questioning what was authentic and what was staged.

10:00 – 11:00am - Ballroom D

FBI NGI Automation of Major Case Print Matching is coming to an AFIS near you

Rob Horton
Director of Communications, MorphoTrak Inc.

FBI NGI now features search of latents against Major Case friction ridge not captured with traditional tenprint or palmprint scans (aka "supplemental " or "complete friction ridge" exemplars). These exemplars are now available for search in NGI as well as in next generation state & local AFIS systems. This lecture outlines evolution of friction ridge areas supported in AFIS, the import and search of Major Case Prints, as well as challenges in capturing these impressions.

10:00am – Noon - Ballroom C

Firearms Evidence Today

Dr. James E. Hamby
Laboratory Director, International Forensic Science Laboratory and Training Centre, City of Indianapolis, Indiana

This presentation will cover the role of the firearms examiner in forensic science and include past history, current research and various legal challenges.

10:30 – 11:00am - Ballroom E

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

Michael Perkins, CSCSA, CLPE, CFPH, CBPE
Crime Scene Analyst Supervisor, Las Vegas Metropolitan Police Department, Nevada

During photographic documentation of three dimensional crime scene impressions, one of the challenges presented is achieving accurate 1:1 sizing of the resulting comparison images. This becomes critical with deeper impressions, such as those in snow. The ability to rely on accurate photographic sizing methods increases in importance when casts of the impressions do not produce satisfactory comparative results. The method presented here typically produces accurate measurements within 1-3 millimeters of a full length footwear impression. It is also non-invasive to the fragile detail present in these evidentiary items. The present method utilized for photographic documentation is to recess the scale into the substrate to a depth approximating the maximum depth of the impression. This has several limitations, which will be discussed. The technique presented resolves these issues. This lecture includes a demonstration of this process, and is intended for attendees of all levels of crime scene experience.

10:30am – Noon - Ballroom A

I Kid You Not! They Actually Said That on the Witness Stand!

Ron Smith, CLPE, CSCSA
President, Ron Smith & Associates, Inc., Collinsville, Mississippi

Wow, what a topic for this year's IAI conference in Providence! The majority of agencies, including larger laboratories, simply do not place enough importance on teaching their employees how to properly testify in court. They seem surprised when one of their forensic specialists screws up terribly on the witness stand and no one wants to claim responsibility for the failure. This scenario can be avoided with the development of an internal expert witness testimony program by gradually building the new examiner from the very first week of their employment. Those of you who think that a couple of moot courts will suffice as a training program can go set in someone else's lecture. You won't be able to handle the heat that Ron will be bringing to the lecture hall this year: no holds barred, no subject off limits, no pat on the back for a half-baked training program. You can't stop him and you can't fire him, but if you have the guts to attend, you will probably thank him when the smoke settles.

11:00am – Noon - Ballroom B

Veterinary Forensics: It's Significance to Crime

Dr. Ernest Rogers
Forensic Veterinarian, NJSPCA Humane Police, Animal Forensic Investigations LLC,
Maplewood, New Jersey

This presentation will cover the basic activities of a forensic veterinarian, the review of forensics in veterinary medicine, the development of various state laws and the review of the human animal relationship and the McDonald triad.

11:00am – Noon - Ballroom D

Interconnection and Interoperability of Multiple AFIS Sites to Promote Regional Security and Crime-Fighting

Steve Nash, CSCSA
Manager of Business Development, 3M Cogent, Pasadena, California
Dr. Behnam (Ben) Bavarian
Principal Consultant, AFIS and Biometrics Consulting Inc., Newport Beach, California

With open borders – encouraging commerce and travel across Countries, across the State lines, and from County to County jurisdictions, everyone knows that "Crime Travels". Our challenge has been how to interconnect and interoperate our AFIS sites to fight back. In this lecture, we will cover the lessons learned for an actual project involving 12, and possibly more, Countries in a region which are upgrading and installing new AFIS operations. The key requirement for these deployments is the seamless and easy to do interoperability between the AFIS sites. The lecture will cover a few important aspects of such deployments:

- Commercial-off-the-shelf (COTS) AFIS procurement
- File conversion
- Standards, Standards, Standards!
- Finally, do something that others have done successfully

11:00am – Noon - Ballroom E

A Review of the Updated SWGTREAD Conclusions Standard

Dr. Christine L. Snyder, CSCSA, CFWE
Crime Scene Analyst, Seminole County Sheriff's Office, Sanford, Florida

This presentation will review the newly proposed conclusions drafted by SWGTREAD (Scientific Working Group for Shoeprint and Tire Tread Examiners). The new conclusions will be discussed in detail, which will allow for an open forum of discussion from the attendees in an attempt to gain insight into the attendees' opinions. The opinions will be noted and taken into consideration by SWGTREAD at their future meeting to edit and propose new standards to the impression evidence community. It is the members of SWGTREAD's goal to reach as many examiner's as possible to gather as much feedback needed to publish an updated Conclusions Standard that will ultimately be accepted by the footwear and tire track discipline.

1:00 – 1:30pm - Ballroom C

A Rapid UPLC/MS/MS Method for the Analysis of Smokeless Powders and Organic Gunshot Residue

Jennifer Thomas
Graduate Student, Florida International University, Miami, Florida

This presentation will cover the forensic importance of analyzing smokeless powders and organic gunshot residue, new ways of extracting, separating, and detecting these samples, and the application of the developed methods to unburned smokeless powders, spent cartridges, and live-fire residue samples collected off of the hands of shooters.

1:00 – 2:00pm - Ballroom A

Recent Trends in Latent Print Testimony

Christine Davis and Melissa Gische
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

As new research becomes available and limitations of the discipline are better understood, latent print testimony has had to evolve. This presentation will highlight some of the recent trends in latent print testimony to include topics such as error rate, absolute certainty, "to the exclusion of all others", and bias.

1:00 – 2:00pm - Ballroom B

Crime Scene 360 - Panoramas

Tony Nguyen, CFPH, CCSI
Crime Scene Investigator, Pomona Police Department, California

Ever wish you can return to scene of the crime? The use or panoramic photography along with virtual tour techniques will provide the current and cold case detectives/ investigators an opportunity to get a "second" look at the entire crime scene in high resolution—long after it has been dismantled. Three types of panoramic photography techniques will be highlighted with examples. Various camera lenses and imaging software will be detailed in the creation of a compelling virtual crime scene "walk thru." All can be accomplished without expensive crime scene scanner hardware.

1:00 – 2:30pm - Ballroom E

Cross Train in Footwear Evidence!

Lesley Hammer, CFWE, CSCSA
Forensic Examiner, Hammer Forensics, Anchorage, Alaska

If you are interested in some day conducting casework in footwear and tire impression evidence, this lecture is for you. We will discuss the basic principles, how the evidence is examined, and what type of training and experience is recommended. This lecture will provide the information you need to get started on a path toward adding this discipline to your areas of expertise.

1:30 – 2:30pm - Ballroom D

Merging the Forensic Scientist, Biometric Data Scientist, and Big Data Analytics in the Age of the Cloud

Richard Huber
Director of Software Engineering and Lead Architect, MorphoTrust USA

Biometric systems continue to evolve and provide new and deeper understanding into the relationships of data within single-vendor systems. Those systems, however, are typically isolated from other biometric and non-biometric data and cannot share fundamental algorithmic components, limiting discoveries related to mixed algorithmic approaches, data recombination, and focused gallery search. The age of Big Data and the Cloud is pushing vendors towards common shared elastic service architectures, data mining, and interoperability, which can give rise to a new kind of Forensic Scientist.

1:30 – 3:00pm - Ballroom C

Empirical Crime Scene Behaviors of Crime Scene Stagers and Famous Cases

Dr. Laura Pettler CSCSA
Carolina Forensics, LLC, Waxhaw, North Carolina

Because crime scene related media might influence an increase of staged crime scenes in the United States, it is critical for forensic professionals to learn what is empirically known about crime scene staging in order to apply that empirical knowledge in the field towards developing strong, prosecutable cases. Empirical research has shown that crime scene staging exists and that there are patterns of behavior commonly exhibited by crime scene stagers. Therefore, the framework of this lecture combines what is empirically known about crime scene stagers from the peer-reviewed published literature with intricate analysis and synthesis of famous crime-scene-staging-related cases with special focus on serial crime scene staging and staged crime scenes in intimate partner homicide cases.

2:00 – 2:30pm - Ballroom A

An Update from the IAI Special Committee on Latent Print Probability Modeling: Training and Evaluation

Moderator: **Steven Meagher**
CEO, Dactyl ID, LLC., Fredericksburg, Virginia

Panel: **Peter T. Higgins**
Consultant, Washington D.C.

Eric Ray, CLPE
Criminalist, Arizona Department of Public Safety Crime Laboratory, Phoenix

As a result of IAI Resolution 2010-18, President Leben has established a Special Committee to establish a strategic plan on how the IAI will meet the intent of the Resolution. The Committee Chair and Co-Chairs will present the Strategic Plan and provide an update on its status.

2:00 – 3:00pm - Ballroom B

Complex Crime Scenes: Deputy/Officer Involved Shootings

Sarah Watson
Supervising Forensic Identification Specialist, Los Angeles County Sheriff's Department, California

Deputy involved shootings are complex and many factors are competing for the CSI's attention. This presentation shows the important factors in large complex crime scenes. Proceed in your crime scene investigation and allow your evidence to speak for itself. Answer the questions from command staff regarding risk management, policy, training, etc.

3:00 – 4:00pm - Ballroom A

Erroneous Exclusions: Policy, Ethics and Law

Carey Hall, CLPE
Forensic Scientist, Minnesota Bureau of Criminal Apprehension, St. Paul

This lecture will provide a summary of research that suggests examiners are 7 times more likely to make an erroneous exclusion than an erroneous identification. Discussion will also include various policy options designed to reduce erroneous exclusions that have been suggested. There will be a special focus on the ethical and legal implications of using these policies.

3:00 – 4:00pm - Ballroom D

Training for Extended Feature Set and Markup Guideline

Melissa K. Taylor
Management and Program Analyst, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

This session will describe and demonstrate an automated training tool for examiners on how to markup a latent image in accordance with the Extended Feature Set (EFS) specifications of the ANSI/NIST-ITL 1-2011. These specifications support interoperability with NGI and between LITS compatible AFIS systems. The training tool incorporates the definitions of the features of the ANSI/NIST standard, specifies a standard set of definitions and best practices for the markup of vendor-neutral fingerprint and palmprint features, and provides an interactive capability for the examiner to learn the EFS markup process

3:00 – 4:00pm - Ballroom E

Optimizing Techniques for Photographing and Casting Snow Impression Evidence

James R. Wolfe
Forensic Scientist, Adjunct Faculty, University of Alaska, Anchorage, Alaska

This presentation will review techniques for photographing and casting snow impressions found at the crime scene, looking at which techniques are best suited for different snow, weather and lighting conditions. The use of powders, sprays and oblique light to enhance contrast on different types of snow for photography will be examined. Dental stone, sulfur cement and snow print plaster casting of snow impressions will be compared, showing how the type of snow and weather conditions may determine which casting technique to use.

3:00 – 4:00pm - South County - Omni Hotel 3rd Floor

Help! My Division's Fallen and We Can't Get Up…a Round Table Discussion

Chair: **Dr. Jean Curtit**
Quality Manager, American Systems, Chantilly, Virginia

The purpose of the round table discussion is to help those struggling state divisions build membership and plan successful money making conferences. This meeting will only be open to Division Secretaries and/or State Regional Representatives.

3:30 – 4:30pm - Ballroom C

Developing a Bloodstain Pattern Analysis SOP and Training Program for Your Agency

Al Brown, CCSA
Special Agent, Crime Scene/Latent Print Unit, South Carolina Law Enforcement Division (SLED), Columbia

This presentation will cover how to develop and prepare a Standard Operating Procedure (SOP) and a training program specifically designed for bloodstain pattern analysis.

3:30 – 5:00pm - Ballroom B

Veterinary Forensics: Case Reviews

Dr. Ernest Rogers
Forensic Veterinarian, NJSPCA Humane Police, Animal Forensic Investigations LLC,
Maplewood, New Jersey

This presentation will cover details of multiple case scenarios that relate directly to crimes against animals.

4:00 – 4:30pm - Ballroom E

Processing the Gelatin Lifter Directly: The Use of Wetwop to Enhance Footwear Imprints on "Blank" Gelatin Lifters

Emily Ross, CCSI
Criminalist II, Boston Police Crime Laboratory, Massachusetts

There have been instances when a visible footwear imprint has been collected at a crime scene using a gelatin lifter and after lifting, the gelatin lifter appears blank. This presentation will discuss the technique of using Wetwop, a premixed powder suspension solution, directly on the "blank" gelatin lifter in hopes of developing the footwear imprint on the lifter.

4:00 – 5:00pm - Ballroom A

Latent Print Suitability and Standards for Conclusions

David Johnson, CLPE
Forensic Scientist II, Las Vegas Metropolitan Police Department, Nevada

This presentation will explore the many factors used in making "of value" or suitability judgments. As well as cover one possible set policies and procedures used to help determine which latent prints are of value for comparison and how to document and report the resulting conclusions. It will focus on the inconclusive results that will occur when using the "of value for comparison" vs. the "of value for identification" threshold.

4:00 – 5:00pm - Ballroom D

AFIS Interoperability – the History of AFIS, the Evolution of the Standards, and Real-life Interoperable AFIS Implementations

Rob Horton
Director of Communications, MorphoTrak Inc.

This presentation shows the history of AFIS evolution with a focus on interoperability issues between dissimilar AFIS systems with a focus on latent interoperability as opposed to TenPrint. The lecture will explore the issues, highlight case studies where interoperability is in action today, and discuss the new EFS (Extended Feature Set) markup that promises to expand interoperability.

4:30 – 5:00pm - Ballroom C

The Backspatter Phenomena

Philippe Esperanca, CBPE
Forensic Manager/Bloodstain Pattern Examiner, Genetic Institute of Nantes Atlantic, France
Aurélien Rubio
Master Degree Student, Nancy University, France

It is well known that gunshot wounding can produce fine droplets of blood in a direction against the line of fire. We name them "backspatters" and we use them to determine the location of the shooting event and their presence help to identify the weapon used and the shooter. Looking at publications and lectures, backspatter has been applied to identify stain patterns showing various sizes, shapes and distribution, perhaps related to the different type of gun but making these identifications still doubtful. Nowadays there is not a description allowing to identify objectively backspatter on crime scene and this even more difficult without knowing that there is a weapon use. Despite the large number of studies conducted, including those of Dr. B. Karger (Germany – 1995/1996) and Dr. M. Fackler (USA – 1992), we decided to focus first on the phenomenon of a gunshot wound to see the dynamic of the back spatters, to be able to understand it to be able in a second time to find characteristics allowing to identify objectively backspatters. The aim of this lecture is show you our conclusion about the dynamic of the backspatters resulting from a gunshot head (first step of our study) by showing it and trying to give you an explanation.

4:30 – 5:00pm - Ballroom E

The Value of the Tire Track Evidence with Respect to the Vehicle Class, Condition, Age, and Cost

Ioan Truta, CLPE, CFPH, CSCSA, CFWE
Criminalist IV, Latent Print Section, Boston Police Department, Massachusetts

This presentation will cover the summary of a research done in a survey of 284 vehicles parked in the City of Boston tow lot. Information about each tire size and tread design were observed and collected with the basic information regarding the vehicle class, condition, age and cost for a potential value of the tire track evidence limited to the tread pattern.

1 TEAM +
100s of VENDORS =
SAVINGS and SELECTION
on all your Law Enforcement Supplies

Purchase products from **multiple vendors with one purchase** from us! Crime scene supplies, evidence collection tools, all forensics equipment - if you need it we can get it and **SAVE** you up to **25% OFF** the original list price! **GREAT DEALS** on everything you need for your agency headquarters, patrol car, office, detention facility, or crime scene - from Bluestar to badges, Nikon to NIK, and more!

National Law Enforcement Supply

Contact your *personal team* of Law Enforcement Specialists today!

21 Aviation Road, Albany, NY 12205
Phone: 518.724.6464 or 866.972.6464 • Fax: 866.682.0940
E-mail: nles@nlescorp.com • Web: www.nlescorp.com

7:00am – 3:00pm - Field Exercise
W61 $50 (Basic Workshop)

Forensic Archaeology/Scenes Involving Scattered Surface Skeletal Remains

Karen Cooper
Retired Crime Laboratory Analyst Supervisor, Florida Department of Law Enforcement, Ft. Myers, Florida

This eight-hour field exercise will consist of the identification, documentation and collection of scattered skeletal surface remains. There will be two such sites available; each limited to 7 students. This will offer the participants an opportunity to practice techniques illustrated and demonstrated in Monday's lecture. Equipment and supplies for the site processing will be provided, however the students are encouraged to bring cameras and video equipment if they wish. Transportation to the field site and lunch will be provided for each student. In order to participate in this workshop, the student must attend the lecture on Monday afternoon. Location and time of pickup will be announced at the conclusion of the lecture. **This workshop will not be repeated.**

8:00 – 10:00am - Room #554A
W69 $30 (Intermediate Workshop)

Creating and Using Courtroom Demonstratives

Jonathyn Priest, CBPE
Forensic Analyst, Bevel, Gardner and Associates, Denver, Colorado
Iris Dailey, CBPE, CSCSA
Forensic Analyst, Bevel, Gardner and Associates, Retired Crime Scene Agent, Oklahoma State Bureau of Investigation, Tulsa

The final stop for many investigations involving a Bloodstain Pattern Analysis or Crime Scene Reconstruction is the Courtroom. It is here that the analyst tells their story of how they reached their conclusions and what these conclusions mean. This workshop is designed to assist a Bloodstain Pattern Analyst or Crime Scene Reconstructionist with identifying and creating helpful Courtroom demonstratives that will be beneficial for a jury in understanding the conclusions in a report. Demonstrative format design includes the use of PowerPoint, bloodstain patterns and their associated documentation methods, trajectory demonstrations, and computer generated recreations. An understanding of crime scene reconstruction and bloodstain pattern analysis is suggested for this workshop. **This workshop will not be repeated.**

8:00 – 10:00am - Room #550AB
W123 $30 (Basic Workshop)

Evidence Detection with a Forensic Light Source

Jon Goldey and Walter Hiller
Forensic Instrument Specialists, SPEX Forensics, Edison, New Jersey

Forensic Light Sources are important tools to aid in evidence detection both at the crime scene and in the laboratory. When utilized to their fullest potential, many different types of evidence can be enhanced and more easily located for later collection. In this workshop, you will have the opportunity to try several different types of light sources. You will be able to locate numerous types of evidence, such as: hairs, fibers, footwear impressions, biological evidence, latent prints, and many others. This workshop is designed for the examiner with no light source experience to one who might want a refresher. There will be a brief lecture on how the light sources work, then hands on stations with different types of light sources. Please feel free to bring your own, and assistance will be provided using your own device. **This workshop will not be repeated.**

8:00 – 10:30am - Room #554B
W108 $35 (Advanced Workshop)

Measuring the Accuracy of Impact Bloodstain Patterns

Michael J. Van Stratton, CBPE, CLPE
Laboratory Director, Kansas Bureau of Investigation, Topeka

The National Academy of Science (NAS) report, "Strengthening Forensic Science in the United States: A Path Forward" was critical of bloodstain pattern analysis (BPA) in many aspects, including the understanding of mathematical concepts and error rates related to the measurement and determinations associated with impact bloodstain patterns. Since the NAS report, there have been two scientific papers published associated with impact patterns and increasing accuracy in determining the area of origin. This workshop will utilize the theories addressed in these papers to determine if in fact the accuracy can be increased in establishing the area of impact.

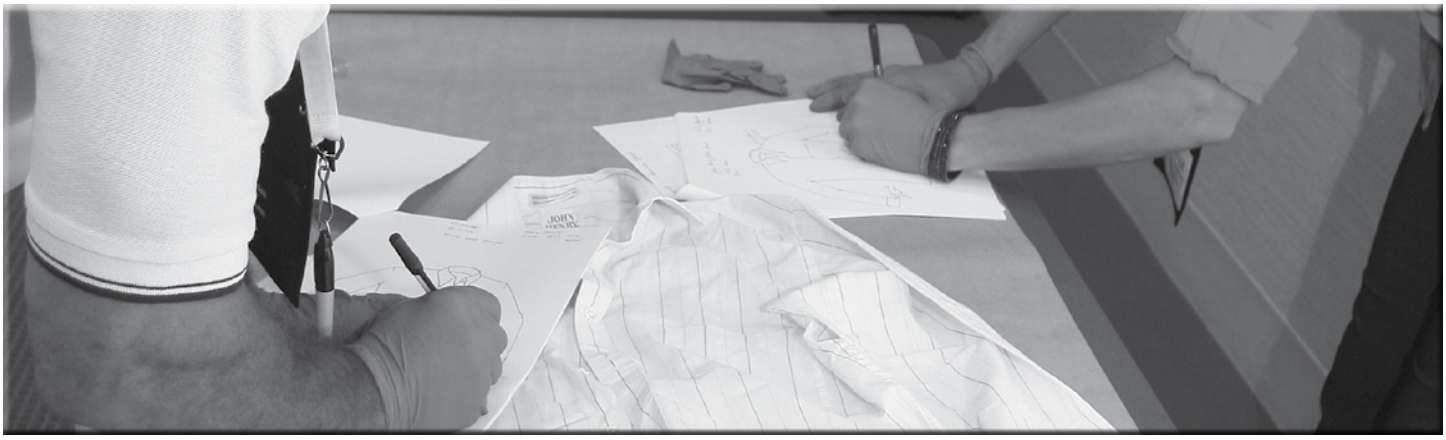
This class is intended for those individuals who have completed a 40 hour basic class in BPA. They must be familiar with measuring bloodstains for angle of impact, and determining area of convergence and area of origin. Attendees to this workshop should bring with them a calculator and any other devices they currently use to measure bloodstains when determining angle of impact. **This workshop will not be repeated.**

8:00 – 11:00am - Room #552A
W8 $40 (Advanced Workshop)

Forensic Application Using High Dynamic Range (HDR) Photography

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana
Tammy S. Barette
Associate Professor, Keystone College, La Plume, Pennsylvania

Forensic Photography has been evolving ever since the very first forensic photograph was taken over 100 years ago. The evolution has continued from film to almost entirely digital photography in forensics. With this age of digital photography investigators now have an advantage over film with the ability to capture forensic images and being able to view them right after an image has been taken. Now the photographer can see if the image captured has the needed detail to make an excellent forensic image. With the use of computers and digital cameras investigators are able to adjust the overall tonal range of an image using the HDR technique. Reproducing the full range of tones or brightness values seen by the human eye is one of the most fundamental challenges in photography. This workshop will delve into the use of HDR Photography Technique in Forensic Investigations and for the preservation of Evidence. Each student will receive an evaluation copy of Photomatix Pro 4 Software. The student is required to bring for this workshop a digital camera with settings to bracket images, tripod and cable release. **This workshop will not be repeated.**



8:00am – Noon - Room #556A
W18 $40 (Intermediate Workshop)

Comparison of Plantar Friction Ridge Impressions

Jon T. Stimac, CLPE
Instructor, Ron Smith & Associates, Inc., Sunriver, Oregon

Due to their infrequent submission into forensic laboratories, friction ridge impressions recovered at the scene of a crime that originate from the foot/sole (plantar) can challenge even the most tenured comparison analyst. Additionally, it is very likely that if you have never received formal training specific to analyzing and comparing plantar impressions, you have probably misinterpreted a plantar impression as coming from a palm or a finger! Even if the interpretation, analysis and comparison are not problematic, what are the subsequent legal aspects? This 4-hour workshop is designed to provide the participant with the biological fundamentals, source recognition, legal admissibility scenarios and a vigorous practical comparison experience with plantar friction ridge impressions.

Numerous practical exercises, supplemented by lectures and discussion are among the techniques used to provide the attendee with a tangible comparison experience with plantar impressions. The attendee will leave the workshop with valued experience and an increased knowledge of associated philosophies and methodologies. **This workshop will not be repeated.**

8:00am – Noon - Room #551B
W31 $40 (Advanced Workshop)

Determination of Simultaneous Impressions

Sandra Siegel, CLPE
Latent Print Supervisor, Forensic Division, Austin Police Department, Texas

This workshop is also offered as W30, Wednesday. The learning objectives are provided under W30.

8:00am – Noon - Room #553A
W36 $30 (Basic Workshop)

ISO/IEC 17020 Accreditation for Crime Scene Units

Beth Carbonella
Senior Accreditation Officer, American Association for Laboratory Accreditation, Frederick, Maryland
Karin Athanas
Senior Accreditation Officer, Forensic Accreditation Program Coordinator, American Association for Laboratory Accreditation, Frederick, Maryland

The accreditation of Crime Scene Units within the United States was a recommendation made in the NAS report and recent movement in Congress and by the Subcommittee on Forensic Sciences show support for such accreditation. This course is a comprehensive look at ISO/IEC 17020 and its documentation and internal auditing requirements. In this course you will gain critical insight into the interpretation of the requirements of this standard and you will also receive a detailed review of the accreditation process.

This course also gives attendees the knowledge needed to establish an internal audit program as required by ISO/IEC 17020, and to initiate the sequence of activities involved in scheduling, planning, conducting, reporting on and closing out internal audits. Participants will be able to employ effective techniques of auditing and the ability to develop the auditing procedures, scheduling and recording systems needed to sustain the program. While knowledge of the international standard ISO/IEC 17020 is beneficial, attendees need not have previous knowledge of these standards. This workshop is considered a group interaction workshop, not hands-on. **This workshop will not be repeated.**

8:00am – Noon - Room #555A
W38 $40 (Intermediate Workshop)

Light and Photography

David J. Doglietto, CSCSA
Senior Investigator, California Department of Corrections and Rehabilitation, CTF-Soledad, State Prison, California
Edward "Ted" McDonald
Senior Instructor, Department of Homeland Security, Federal Law Enforcement Training Center, Glynco, Georgia

Chances are that your crime scene will not occur at high noon on a gloriously sunny day. Let's face it; you're going to need to either be creative with the light that is available to you or you're just going to have to bring your own. This workshop is designed with the crime scene or laboratory technician in mind. We will explore the relationship between light and the camera, the different lighting options available to the photographer, and the proper application of these options in creating images that will be useful to subsequent courtroom proceedings. An emphasis will be given to laboratory macro-photography using different lighting techniques to capture that perfect image.

This workshop is designed for the intermediate student who has a working knowledge of their camera and the ability to change camera settings. Don't forget to bring your cameras, tripods and flashes! **This workshop will not be repeated.**

8:00am – Noon - Room #551A
W56 $40 (Basic Workshop)

What Do All Those Buttons and Dials Do? DSLR: Initial Set-up for Forensics

Jeff Scozzafava
Detective, County Prosecutor's Office, Somerset, New Jersey

This workshop is intended for individuals who document crime scenes and evidence. This hands-on workshop will provide lecture and practical experience developing the attendee's proficiency in DSLR use. This workshop will focus on initial set-up of a DSLR camera based on accepted guidelines and "your agencies" SOP. Don't have one? Come to this workshop! Attendees should bring a DSLR camera to the workshop and if available a tripod for long exposure exercises and laptop to review and archive their images. **This workshop will not be repeated.**

8:00am – Noon - Room #552B
W94 $30 (Intermediate Workshop)

Reducing Erroneous Exclusions: The Workshop!

Eric Ray, CLPE
Criminalist, Arizona Department of Public Safety Crime Laboratory, Phoenix
Penny Dechant, CLPE
Criminalist/Latent Print Technical Leader, Arizona Department of Public Safety Crime Laboratory, Phoenix

This workshop is also offered as W93, Tuesday. The learning objectives are listed under W93.

8:00am – Noon - Room #557
W97 $70 (Intermediate Workshop)

Digital Imaging: Age Progression of Adults Using Adobe Photoshop

Stephen Mancusi, CFA, Chairman of the Forensic Art Certification Board
Retired Detective and Forensic Artist for NYPD - ForArtist LLC, New York

Age progression is an important resource for Law Enforcement to update images of fugitives. As years pass the faces change significantly. Adobe Photoshop allows the Forensic Artist to manipulate the faces and come up with an image of how the individual may appear today. This workshop will go through the step-by-step process of how to age progress a face using the tools in Adobe Photoshop. Each participant will be provided images to manipulate and apply the effects of aging. At the conclusion of the workshop you will, hopefully, walk away with some new tips and tricks in Photoshop and a better understanding how to apply these to the process of age progression. Previous knowledge and experience with using Adobe Photoshop is strongly recommended for this workshop.
This workshop will not be repeated.

8:00am – 5:00pm - Room #553B
W87 $40 (Basic Workshop)

Moot Court for the Tenprint Examiner

Kevin Burke, CTPE, CLPE, CSCSA
Andover Police Department, Massachusetts (Retired)
Michael Gorden, CTPE
Supervisory Fingerprint Examiner, Federal Bureau of Investigations, Clarksburg, West Virginia

The Tenprint examiners will receive a lecture on the history of prosecution in the U.S. court system and then will be asked to participate in a "Moot Court", as the prosecution and the defense council will question the examiner as to their findings of a fictitious case. Successful completion of "Moot Court" can be used as an accepted portion for the examiners Tenprint Certification requirement. **This workshop will not be repeated.**

8:00am – 5:00pm - Room #555B
W121 $50 (Intermediate Workshop)

Staged Crime Scenes: Crime Scene Clues to Suspect Misdirection of the Investigation

Grant D. Graham Sr., CBPE, CSCSA
Forensic Supervisor, Fayetteville Police Department, Fayetteville, North Carolina

In the course of their career, most detectives and forensic practitioners will come into contact with a staged crime scene; a scene altered by the offender to either mislead a police investigation or for other reasons understood only by the offender. Staged scenes are possible in nearly every type of criminal offense raging from property crimes to violent crimes.

To better understand the dynamics and general nature of "staging" this workshop introduces three new categories of staged crime scenes based on intent of the offender's scene alteration. The thrust of this workshop is to understand that the offender's staging actions can be identified through common findings or "red flags" that are often found when scenes are altered.

This workshop applies to crime scene and criminal investigators, medical examiner investigators and others involved in the investigation of crime. It provides case examples and explains "red flags" commonly encountered when confronted with a staged scene. The workshop culminates with case studies for students to work through and identify the various "red flags" in real cases. **This workshop will not be repeated.**

10:30am – 12:30pm - Room #554A
W110 $30 (Intermediate Workshop)

Bloodstain Pattern Reconstruction with Lasers

H.W. "Rus" Ruslander, CSCSA, CLPE, CBPE, D-ABMDI
Supervisor of Forensic Investigations, Palm Beach County, Florida Medical Examiner's Office
Dr. Laura Pettler, CSCSA
Owner, Carolina Forensics LLC, Waxhaw, North Carolina

Juries are often intrigued by evidence that resembles what they see depicted in Hollywood's fixation with CSI. Therefore, prosecutors must work towards meeting juror evidence expectations. This workshop will demonstrate how lasers might be used to investigate and reconstruct some bloodstain patterns in the field and/or as a courtroom demonstrative. The original concept of reconstructing bloodstain patterns with lasers was developed and published by Harold "Rus" Ruslander. This workshop combines Mr. Ruslander's original concept with a new addition concept for reconstructing bloodstain patterns with lasers. Students should have knowledge of basic bloodstain pattern interpretation skills (e.g., ability to calculate angle of impact, etc.). **This workshop will not be repeated.**

10:30am – 12:30pm - Room #550AB
W124 $30 (Basic Workshop)

The Proper Use of Reflected Ultraviolet Imaging Systems - RUVIS

Kenneth Martin, CLPE, CSCSA, CBPE, CFWE
Detective Lieutenant, Massachusetts State Police, Sudbury
George Setola
Director, SPEX Forensics, Edison, New Jersey

This workshop will discuss and illustrate the use of current RUVIS technologies in the detection of evidence at the crime scene and in the laboratory. Applications for RUVIS technology will be clearly defined and this technique will be demonstrated and practiced by the attendees. RUVIS will be compared and contrasted to current forensic (alternate) light source technologies and techniques. The goal is to achieve a basic understanding of, and begin to attain proficiency in the use of this technology and how to improve the possible results of that use. Those attendees who have RUVIS devices are invited to bring them. **This workshop will not be repeated.**

12:30 – 2:30pm - Room #552A
W9 $30 (Intermediate Workshop)

Using Polyvinyl Siloxanes for the Recovery of Impression Evidence

King C. Brown, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida

This workshop with provide the student with the basic application, mixing, and the recovery of not only impression evidence, but dental impressions, dried bloody fingerprints, latent fingerprints, deceased fingerprints and fingerprint lifts from difficult surfaces. These lifts can be scanned directly into AFIS. Students will have the opportunity to make lifts during this workshop. **This workshop will not be repeated.**

12:30 – 2:30pm - Room #554B
W70 $30 (Basic Workshop)

The Red-Brown Stain in your Crime Scene….Is it Blood? Is it Human?

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida

Presumptive field tests for blood can provide useful information for the investigative team regarding the details of the crime scene. Students in this workshop will obtain a basic knowledge for presumptive field testing based on the fact that not all presumptive field tests are rated equal in terms of sensitivity or specificity. This workshop has been specifically designed to educate the students on what tests are sensitive and specific for blood, and which substances provide false positives when utilizing various presumptive field tests. This workshop will help the crime scene technician to develop confidence when dealing with potential blood evidence in the scene, and develop the knowledge and skills to deal with difficult questions pertaining to presumptive blood testing while in the hot seat in depositions and in the court room. **This workshop will not be repeated.**

1:00 – 3:00pm - Room #554A
W113 $30 (Intermediate Workshop)

The Use of Limiting Angles in Blood Pattern Analysis

Philippe Esperança, CBPE
Forensic Manager/Bloodstain Pattern Examiner for the International Criminal Court and for French Courts, Nantes, France

What is the meaning of this area without spatters linked to a thickness in the wall? Are they related? This kind of absence of spatters named void or Limiting angles are useful to locate the blood source (victim) when a violent bloody event occurred. Well documented, the void related to the limiting angles gives really good and useful information about the location of the injury causing the spatters and the void studied. This workshop will present the characteristics of the voids due to limiting angles, case examples and the process of their use in Bloodstain Pattern Analysis. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #556A
W13 $60 (Intermediate Workshop)

Friction Ridge Sufficiency: The Threshold?

Julie Brownfield, CLPE
Forensic Lead Specialist, Forensic Unit, Spokane County Sheriff's Office, Washington

This workshop is also offered as W11 Monday and W12 Wednesday. The learning objectives are provided under W11.

1:00 – 5:00pm - Room #552B
W28 $40 (Basic Workshop)

Developing, Documenting and Lifting Latent Prints on Regular, Unusual and Textured Surfaces

Dick Warrington
Consultant/Instructor, Lynn Peavey Company, Lenexa, Kansas
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

This hands-on class is designed to give experience to officers by using various powders and other means in developing latent prints. Techniques for documenting the location and orientation of the using stick on markers, scales, grease pencils and dry erase markers will presented and used. Tape and other techniques for collecting prints such as Accutrans® Extruder Gun, Wet Print®, Goo-Print Powder®, Polyethylene Tape & Diff-Lift® Tape will be demonstrated and available for use. 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 lift latent prints off almost any such as paper, feathers, wet, textured, multi-contoured, multi-contoured textured and unusual surface that a print has been developed on. Numerous substrates will be used to lift latent prints off.

The following techniques will be done in this 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 stick on, grease, and dry erase markers with your prints.
- Lifting latent prints off multi-contoured surfaces. This procedure will be done using polyethylene tape to lift the prints.
- Using Accutrans to lift and off textured surfaces and techniques for using to obtain known prints from deceased persons (no deceased persons will be used in this segment).
- Lifting prints off wet surfaces will be done by using Wet Print. Each attendee will develop and lift latent prints off a wet surface while the item is still wet. Additionally, the effects prolonged exposure to water can have on the presence of a latent will be explored.
- Developing and lifting latent prints off a paper towel.
- Attendees will develop a latent print on a paper towel using a magnetic applicator and black powder. Then lift the latent print off the paper towel using Diff-Lift Tape standard.
- Developing and lifting latent prints off a feather. Attendees will develop a latent print on a feather using a fiber brush and black powder, then lift the latent print off the feather using standard lifting tape.
- Developing latent prints on the adhesive side of tape. Attendees will develop a latent print on the adhesive side of tape using Goo Print Powder.

This workshop is also offered as W29 on Friday.

1:00 – 5:00pm - Room #555A
W39 $40 (Intermediate Workshop)

The Forensic Composite: Start to Finish

Detective Paul Moody, CFA
Forensic Imaging Specialist, Palm Beach County Sheriff's Office, West Palm Beach, Florida

This is an active participation workshop and will take the participant through the entire process of rendering a forensic composite from a victim/witness interview. A third party will be present to play the part of the witness and participants will follow along as we conduct the interview, gather a detailed description and render the drawing to the witness' satisfaction. All materials will be supplied to participants. Participants will gather a general understanding of the composite process and how to generate a final product that is beneficial to the case. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #551B
W45 $60 (Intermediate Workshop)

Creases and 3rd Level Details Workshop

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne

This workshop is also offered as W44 Tuesday and W46 Friday. The learning objectives are listed under W44.

1:00 – 5:00pm - Room #557
W52 $60 (Basic Workshop)

Universal Latent Workstation (ULW) Software – The Basics

Marian M. Price and Andy Roush
Training Instructors, Federal Bureau of Investigation/Criminal Justice Information Services Division, Clarksburg, West Virginia

This workshop will focus on the new features and functionality of the Universal Latent Workstation (ULW) software. The latest release of the ULW software offers users a variety of case management and processing tools and will enable latent examiners to search the FBI's Biometric Repository by finger, palm, or supplemental images. This session will primarily focus on the use of the software as it relates to latent fingerprint transactions. Some of the information covered in this session includes: managing transactions; encoding minutiae points; adjusting file penetration; designating repositories for searches; and conducting comparisons of fingerprints with possible candidates returned from the IAFIS. This workshop is designed for Latent Print Examiners who are new to the ULW software, are utilizing an older version of the ULW software, and enter latent prints in the ULW for search through the FBI's Biometric Repository. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #551A
W57 $40 (Intermediate Workshop)

What Do All Those Buttons and Dials Do? DSLR: Depth of Field and Exposure Compensation

Jeff Scozzafava
Detective, County Prosecutor's Office, Somerset, New Jersey

This workshop is intended for individuals who document crime scenes and evidence. This hands-on workshop will provide lecture and practical experience developing the attendee's proficiency in DSLR use. This workshop will focus on obtaining quality images of scenes and evidence items when exposure and/or depth of field issues are a priority. Attendees should bring a DSLR camera to the workshop and if available a tripod for long exposure exercises and laptop to review and archive their images. **This workshop will not be repeated.**

1:00 – 5:00pm - Room #553A
W115 $40 (Basic Workshop)

Tool Marks and Fracture Match Imaging

Richard T. McEvoy, Jr., CFPH
President, Forensic Imaging, Inc., Victor, New York
Charla Janney
President, Charla Janney and Associates, Inc.

Being able to graphically demonstrate a fracture match for evidence in court is often critical to a case. This workshop will address the techniques needed for quality imaging of fracture match evidence and making measurements from these images. The program will demonstrate and address different lighting techniques, lens choices, and Photoshop techniques for high quality imagery, measurements and overlay work for presentations. The workshop will consist of a one hour lecture and will have three hours of hands-on imaging exercises. Attendees must supply their own camera and lens capable of doing macro work as well as a tripod (a limited number of Quadrapods will be available). A flash capable of being used off camera should, also, be brought. Attendees should have a good understanding of how to operate their cameras. Attendees are welcome (and encouraged) to bring their own laptop computers to class for the exercises. **This workshop will not be repeated.**

1:30 – 4:30pm - Room #550AB
W54 $40 (Intermediate Workshop)

Uncommon Methods for Common Forensic Evidence

Kjell Carlsson
Retired Forensic Engineer, Stockholm Police Crime Laboratory, Stockholm, Sweden
Jens Carlsson
Forensic Engineer, Stockholm Police Crime Laboratory, Stockholm, Sweden

In this workshop you will be introduced to the practical use of different techniques used in Sweden and how they were applied in real cases. We will address both detection and recovery of the impression evidence, and the conclusions made from the comparison. Each student will have a chance to practice the techniques on different types of evidence.

Snow impressions

We will cast impressions in snow with a new method called "Dry Casting Technique". We use a new type of plaster with extreme short setting time. To increase the contrast in the impression we brush a new type of powder on to the surface before photographing or casting. The result is mostly with a higher contrast and a larger number of details, especially on wet transparent snow. All photographed three-dimensional impressions from the crime scenes should not be compared with a two-dimensional test print from a suspected shoe or tire. The correct method is to compare with a three-dimensional test impression. We will show a technique to make these types of test impressions and the best way to photograph it.

Invisible Marks in Plastic Bags

The comparison of plastic bags is one of the most common evidence in drug cases. If you find drugs packed in a plastic bag and later you will find a roll bags, of the same type, in a suspected person's home. We will show different methods to prove that the plastic bag with the drugs is from the found roll. Two polarizing filter sheets and under-light will make the invisible manufacturing marks in plastic bags visible and give you a chance to link them to a specific roll. We will discuss the level of conclusions made from this type of comparisons.

Shoeprints and Latent Fingerprints

We will try different lighting techniques. With projected light you will get the best contrast on a shoeprint lifted with electrostatic technique. A thin shoeprint on a piece of glass needs perhaps under light with black background (Dark Field Lighting) for the best result. A method by using projected light and a semitransparent mirror placed between the camera and the fingerprint (episcopic technique) can sometimes be the only way to get identification with so called "impossible" prints. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #552A
W10 $30 (Intermediate Workshop)

Discovery and Recovery of Metallic Evidence with Metal Detectors

King C. Brown, MS, CLPE, CFPH, CSCSA
Crime Scene Supervisor, West Palm Beach Police Department, Florida
M. Dawn Watkins, MS, CLPE, CFPH, CSCSA
Latent Fingerprint Examiner, Palm Beach Gardens Police Department, Florida
Tammy S. Barette
Associate Professor, Keystone College, La Plume, Pennsylvania

Have you ever had to use a metal detector and never even turned one on before? Have you ever tried to recover metallic evidence with a metal detector you have never really practiced with? Have you ever had testify in court about your knowledge and expertise with the use of a metal detector? How does a metal detector work? What types of metals does it detect?

This workshop will give you some fantastic information on the use of a metal detector and provide you with hands-on practice application and techniques to help you recover those difficult to find forensic evidence, such as shell casings and projectiles. Class is for beginners to advance. Metal Detectors Provided. **This workshop will not be repeated.**

3:00 – 5:00pm - Room #554B
W111 $30 (Intermediate Workshop)

Recognizing and Documenting Bloodstain Pattern Evidence

Jonathyn W. Priest
Forensic Analyst, Bevel, Gardner & Associates

For many law enforcement agencies, processing bloodstain scenes often falls to the general assignment crime scene detective or technician. Having personnel who are trained and experienced in bloodstain pattern analysis available to assist at a bloodstain scene is not always possible so proper documentation of bloodstains at the crime scene becomes an important part of the investigation.

This workshop is designed for crime scene technicians and others associated with crime scene investigations, as well as those who have training and experience in bloodstain pattern documentation desiring a review. The workshop will assist the participants with recognition of bloodstain patterns and provide a means for the documentation of those bloodstains. This documentation method can be useful for the bloodstain pattern analysts or a future evaluation. Previous training is beneficial however; attendees need not have training in bloodstain evidence to participate in this workshop. **This workshop will not be repeated.**

8:00 – 9:00am - Ballroom A

You Never Leave the Same Print Once

Ioan Truta, CLPE, CFPH, CSCSA, CFWE
Criminalist IV, Latent Print Section, Boston Police Department
Kristyn Ferber
Graduate Student – Master of Science program in Biomedical Forensic Sciences, Boston University

This presentation will cover the summary of a research done to support the statements of the latent print examiners, such as: "No two prints from the same source will be exactly identical; There is no such thing as a perfect or exact match between two independent prints or recordings from the same source; If two prints are exactly identical one of them is a reproduction of the other and it is believed to be a fabrication or forgery".

8:00 – 9:30am - Ballroom B

"Never Give Up"

Lyla Thompson, CLPE
Latent Print Examiner, Johnson County Police Department, Mission, Kansas
Cynthia Fuller, CTPE
Fingerprint Examiner, Federal Bureau of Investigation, Clarksburg, West Virginia
Nancy Clark, CTPE
Forensic Identification Specialist I, Los Angeles County Sheriff Department, California
Eva Hess, CTPE
Tenprint Examiner, AFIS/Tenprint Unit, King County Sheriff's Office, Seattle, Washington

This lecture will motivate examiners that have failed the Certification Test and are now discouraged. If you made a wrong ID, ran out of time, or encountered some serious challenges that you weren't prepared for, this lecture is going to fan the flame inside of you. Real stories of examiners that passed the test after second attempt will motivate you, and we are going to share tips to help you get prepared to re-test, and get back in the game.

8:00 – 9:30am - Ballroom C

Courtroom Testimony for Bloodstain Pattern Analysis

Iris Dalley, CSCSA
Bevel, Gardner & Associates, Inc.; Retired Crime Scene Agent, Oklahoma State Bureau of Investigation
Michael Perkins, CSCSA, CLPE, CFPH, CBPE
Crime Scene Analyst Supervisor, Las Vegas Metropolitan Police Department, Nevada
Tom "Grif" Griffin, CSCSA, CBPE
Bevel, Gardner & Associates, Inc., (Retired) Criminal Investigator, Colorado Bureau of Investigation

This presentation will begin with a brief review of basic courtroom procedures related to expert testimony as a bloodstain pattern analyst. That will be followed by a panel discussion which will include many of the questions that may be expected during testimony. There will be an opportunity for attendees to participate in the discussions through questions and comments.

8:00 – 10:00am - Room #553A

I Had a Case

Moderators: **Suzanne Lowe Birdwell**
Forensic Artist, Texas Department of Public Safety / Texas Rangers' Evidential Art and Facial Identification, Austin
Stephen Mancusi, CFA
Forensic Artist- ForArtist LLC, Retired Detective and Forensic Artist for the New York Police Department, Peekskill

This is an informal discussion allowing Forensic Artists the opportunity to present interesting cases before their peers and other interested personnel. The session is an excellent networking opportunity and all are encouraged to attend. PowerPoint will be available. Members of the Forensic Art Certification Committee will be present to answer any certification related questions.

8:00 – 10:00am - Ballroom E

Case Studies in Footwear, Tire and Barefoot Evidence

Moderator: **Michael Gorn, CCSI**
Forensic Supervisor, Sarasota County Sheriff's Office, Florida

This session will include a variety of case studies on footwear, tire and barefoot evidence. Presentations will be conducted by several examiners and demonstrate how these evidence types were collected and utilized from the crime scene to the courtroom.

Hit and Run Case with Tire Tracks on a Pair of Jeans

Dr. Christine L. Snyder, CSCSA, CFWE
Crime Scene Analyst, Seminole County Sheriff's Office, Sanford, Florida

This presentation will discuss a hit and run case involving a tire comparison. The tire comparison involved a vehicle tire and a tire impression on jeans. Photographs of the impression and tire will be shown and the results of the conclusion will be discussed.

8:00 – 10:30am - Ballroom D

Reducing the Size of Friction Ridge Images

Moderator: **Shahram Orandi**
Supervisory Computer Scientist, Image Group of the Information Technology Laboratory, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

Panel: **John Libert**
Physical Scientist, Image Group of the Information Technology Laboratory, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

Stephen Wood
Mathematician, Image Group of the Information Technology Laboratory, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland

Panel presentation on effects of compression, down-sampling, and other topics related to reducing the digital size of friction-ridge images. Greyscale 500ppi rolled NTN fingerprint images exceed 0.5 megabytes; 1000ppi exceed 2 megabytes. NIST has recently published NIST Interagency Reports NISTIRs 7778, 7779, 7781, and 7839 reporting pertinent research and results. The panel will discuss these, together with related late-breaking findings. Shahram Orandi will lead the panel, which will include John Libert and Stephen Wood.

9:00 – 9:30am - Ballroom A

Obtaining Prints from Deceased Bodies Immersed in Water

Kathy Egli
Oregon State Police, Forensic Services Division, Portland, Oregon

When a deceased subject has been in water for some time, the friction ridges become flat and are no longer three dimensional. Conventional methods of inks, powders and photography do not yield results that are viable for comparison and ultimate identification. The application of heat and moisture (boiling the fingers/hands) on friction ridge skin restores the three-dimensional features. Once this has been accomplished, conventional methods can be applied and yield legible and identifiable fingerprints.

9:30 – 10:00am - Ballroom A

Telecommuting for Latent Print Practitioners

Cindy K. Hull, CLPE
Latent Print Supervisor, Contra Costa County Sheriff's Office, Martinez, California

This presentation will demonstrate how an electronically supervised telecommuting workflow will meet legal criteria and laboratory requirements to improve operations. This presentation will cover the pros and cons of such an operation in hopes to offer logistical solutions impacting law enforcement agencies.

9:30 – 10:00am - Ballroom C

Mathematics and Physics for Bloodstain Pattern Analysis

Brian Yamashita
Research Scientist, Royal Canadian Mounted Police, Ottawa, Ontario, Canada

Certain aspects of bloodstain pattern analysis might be better understood by analysts if some of the fundamental background science was known. This lecture will briefly describe some of the basic Physics and Mathematics that might be useful for an analyst to learn. In a small way, this addresses some of the criticism in the NAS Report, since it documents the underlying science supporting some parts of the discipline.

10:00 – 11:00am - Ballroom B

Tenprint Open Forum

Mona Lisa R. Maynard, CTPE
Senior Fingerprint Examiner, Ohio Bureau of Criminal Identification and Investigation, London, Ohio

Who's Who of the IAI Tenprint program as well as other invited speakers in one place, at one time, to discuss issues arising in the tenprint discipline. Discussion items will include training, certification, funding, tenprint to latent cross-training, as well as the NAS report and SWGFAST's effect on the tenprint community. Bring your questions and be prepared to share your own insight and experiences.

10:30 – 11:00am - Ballroom A

Latent Print Basic Shape Search Techniques

Mack Brazelle, CLPE, CCSI
Fingerprint Specialist, Treasury Inspector General for Tax Administration, Forensic Science Laboratory, Beltsville, Maryland

This lecture will introduce a practical approach to latent print analysis called "Basic Shape Search". This technique is intended to reduce comparison time. Originally designed to help examiners finish the IAI latent print certification test on time, latent print examiners with large case loads and/or large suspect pools should also find this lecture helpful.

10:30 – 11:00am - Ballroom C

Using ISO for Bloodstain Pattern Analysis Methodology

Philippe Esperanca, CBPE
Forensic Manager/Bloodstain Pattern Examiner, Genetic Institute of Nantes Atlantic, France

All experts want to demonstrate that his conclusions of his expertise follow a strong, independent and coherent argumentation following a scientific methodology. With this goal and following the recommendations of the NAS report, I established Bloodstain Pattern Analysis procedures following the ISO standards. Still following the NAS recommendation, a model of report had been developed showing the procedure followed, the analyses done with their results and the conclusion reached. This presentation will show you the Bloodstain Pattern Analysis procedures developed in my lab and how the BPA results are transcribed in my reports.

10:30 – 11:00am - Ballroom E

High Resolution 3D Tire and Footprint Impression Acquisition Device

Dr. Mihran Tuceryan
Professor, Department of Computer and Information Science, Indiana University Purdue University Indianapolis (IUPUI), Indianapolis, Indiana

This presentation will introduce the design of a prototype device with which 3D images of tire track and footprint impressions at crime scenes can be captured with high fidelity, while capturing high resolution 2D color texture images simultaneously. The resulting device is portable, easy to use, is non-destructive of the evidence. The method includes a calibration method integrated into the on-site scanning process, thus avoiding problems with pre-calibrated configurations becoming stale during transportation and setup.

11:00am – Noon - Ballroom A

Reactions of Latent Prints Exposed to Blood

Nicole Praska
Preservation Assistant, University of Minnesota, Minneapolis, Minnesota

Are you sure that was a bloody fingerprint? This presentation will explore the question of whether latent prints exposed to blood can be mistaken for genuine bloody fingerprints after processing with blood reagents. We will examine the research on this issue and consider solutions to avoid confusion and misinterpretation when discussing or examining evidence of this nature.

11:00am – Noon - Ballroom B

The Erroneous Identification of Lana Canen

Kathleen Bright-Birnbaum, CLPE
Owner, Desert Forensics, Tucson, Arizona

This presentation is about a case of murder and the erroneous latent print identification which sentenced Lana Canen to 55 years in prison. The examiner, with only Ten-Print training and experience, without following proper methodology, without verification and having overstated his qualifications in court, changed her life forever! This lecture will present the examiner's original trial testimony and exhibits and the post-conviction release hearing that overturned Canen's murder conviction eight years later.

11:00am – Noon - Ballroom C

Scientific Working Group on Bloodstain Pattern Analysis (SWGSTAIN): Open Meeting

Moderator: **Tom "Grif" Griffin, CSCSA, CBPE**
Bevel, Gardner & Associates, Inc., (Retired) Criminal Investigator, Colorado Bureau of Investigation
Panel: **SWGSTAIN Members**

Members of the Scientific Working Group on Bloodstain Pattern Analysis (SWGSTAIN) will discuss issues relating to existing guidelines published by the working group, current documents in progress, and to solicit input on concerns relating to bloodstain pattern analysis.

11:00am – Noon - Ballroom D

Automation of Crime Scene Latent Print Images to Achieve Higher Efficiency

Mike French, CLPE
Forensic Expert in Biometrics, MorphoTrak Inc.

At most agencies latent print images collected at crime scenes go into a manual queue to await processing by crime lab experts when lab backlogs allow. However advances in technology can automate the initial processing of these latent images with a preliminary automated search to identify potential suspects and eliminate victim prints independent of the crime lab's backlog. This technology is intended to increase the speed and efficiency of both the investigator and the expert.

11:00am – Noon - Ballroom E

A Porcine Model for Ante Mortem and Post Mortem "Toe-in" and "Sole-down" Footwear Impact Injuries

John C. Norman, CFWE
Senior Forensic Analyst, Ontario Provincial Police, Orillia, Canada

Homicide investigations often include the analysis of injuries to the deceased and the appearance of toe-in and sole-down impact injuries on skin caused by footwear are seen frequently in forensic contexts. This presentation discusses an experimental research on the impact of such injuries.

ForensicPieces.com

Learn from the Forensic Authority

Forensic Lab Analysis & Case Review - Training Classes

Call for Forensic Analysis and Case Review

- Death Investigations
- Crime Scene & Shooting Reconstruction
- Bloodstain Pattern Analysis
- Cold Case Review
- Expert Testimony
- Many More Disciplines

Host or Sign Up for Our Training Classes

- Basic & Advanced Crime Scene for Law Enforcement
- Basic & Advanced Bloodstain Pattern Analysis
- Child & Infant Death Investigations
- Crime Scene & Shooting Reconstruction
- Skeletal Remains Recovery
- IAI Crime Scene Certification Test Preparation
- And More...Check Website for Listings!

(Group Rates Available for Exclusive and Customized Training)

Jan Johnson, IAI Certified Senior Crime Scene Analyst,
President of Forensic Pieces with Over 45 Years of Forensic Experience

3 W. Garden Street, Suite 618, Pensacola, FL 32502

For Scheduling & Further Information, Call 850.332.0141 or Email info@forensicpieces.com

www.forensicpieces.com

Mini-CrimeScope® Advance

Smaller, Lighter, Brighter

Quite possibly the brightest multiple wavelength Forensic Light Source available. It represents the latest in bulb based Forensic Light Source technology. It is the brightest light source we have ever produced.

Utilizing a hybrid gas discharge lamp providing exceptional output, the Mini-CrimeScope® Advance is the most efficient bulb based Forensic Light Source.

Now available with 15 wavelengths contained in one filterwheel at the working end of the light guide, continuing a long tradition of unmatched versatility.

A new rigid padded case that can be converted into a backpack makes the unit even easier to transport to crime scenes.

Visit our website to read more about the Next Generation of the Premier Forensic Light Source.

SPEX FORENSICS

www.spexforensics.com/advance

732-623-8335

TRITECHFORENSICS

identify. collect. preserve.

Your investigations partner for thirty years.

STOP BY BOOTH 525/624 FOR PRODUCT DEMOS, FREEBIES, AND MORE!

CAMERAS • INVESTIGATION SUPPLIES • DIGITAL FORENSICS

TRITECHFORENSICS.COM • TRITECH@TRITECHUSA.COM • 800.438.7884

QueTel

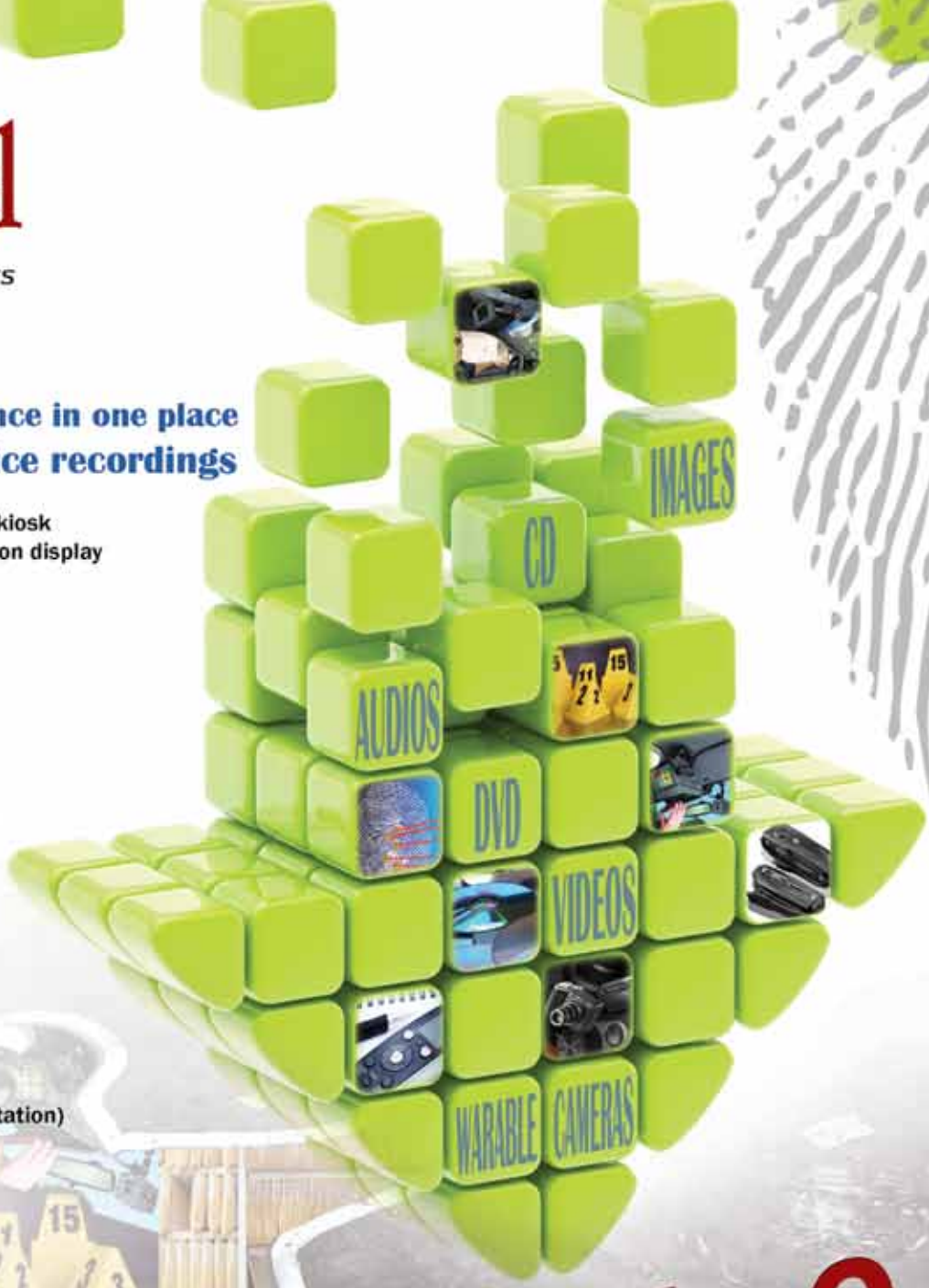
Tracking what matters

View all your digital evidence in one place
Images, videos, and voice recordings

Easy upload from anywhere; no costly kiosk
Automatic authentication at upload & on display
Capture metadata from source
Secure storage of files
Selective access restriction
Easy to search and display files
Print reports and download
Complete chain of custody
Bullet proof security
Plays standard video and audio files
Monitor all log on and user activity
100% browser application
No troublesome client installs

Optional features

Built in calibration and 1:1 printing
Print or upload latents to AFIS
Built in enhancement capabilities
Seamless integration with Photoshop
Friction Ridge Studio (ACE-V documentation)
Side-by-side image comparison
Burn directly to CD/DVD
Archive and restore
System notifications module
Interfaces to other video systems
Ad hoc management report writer
Integrate with Active Directory



Digital TraQ

Digital TraQ is the digital evidence management component of The TraQ Suite, the back office productivity solution for law enforcement.
Other components manage physical evidence, lab requests, documents, quartermaster equipment, uniforms, supplies, and impounded vehicles.

Tima for Art Design

QueTel Corporation • 800 354 6777, ext 1 • www.quetel.com • sales@quetel.com

8:00 – 10:00am - Room #550AB
W55 $30 (Intermediate Workshop)

Casting Techniques for Multiple Purposes Using Mikrosil Casting Material

Kjell Carlsson
Retired Forensic Engineer, Stockholm Police Crime Laboratory, Stockholm, Sweden
Jens Carlsson
Forensic Engineer, Stockholm Police Crime Laboratory, Stockholm, Sweden

This workshop will demonstrate methods of casting tool marks, latent prints, fire pin impressions, extractor and ejector and other striation from casings, using Mikrosil casting material. The properties of Mikrosil are important in cases of shallow marks with small details requiring large magnification. Brown and Gray Mikrosil is the best for casting marks for the microscopic comparison. We will show you how to make a so called "double casting" which is necessary in the tool mark comparison process.

White and Black Mikrosil are designed for securing and lifting latent fingerprint from objects with a textured surface. If you are using a normal lifting tape on these types of surfaces you will find it difficult to lift the whole print and the result will be a print with missing details. By using a casting technique these problems will not be an issue. We will show a technique of casting CNA-developed fingerprints with black Mikrosil and also the photographing process for this type of prints in reflected light. Each student will get a chance to practice all different casting methods and will be given a Mikrosil casting kit. **Friday is the only day this workshop is offered.**

8:00 – 11:00am - Room #555B
W116 $30 (Basic Workshop)

Documentation of Shooting Incidents

Cory Latham CSCSA, CBPA
Senior Special Agent, Kansas Bureau of Investigation, Great Bend
Eric Moore CCSA, CBPA, CLPE
Forensic Scientist, Kansas Bureau of Investigation, Great Bend

Crime scene investigators often encounter violent scenes, such as firearm related homicides and officer-involved shootings. Successful reconstruction of these events; whether done by the on scene investigator or by another expert after the fact depends in large part on the recognition of relevant evidence and the level of documentation afforded to that scene. This workshop is intended to give the officer or crime scene investigator a basic understanding of the shooting incident reconstruction process, and the skills necessary to properly document a shooting incident. **Friday is the only day this workshop is offered.**

8:00 – 11:00am - Room #554A
W120 $30 (Intermediate Workshop)

Who Shot What, Where, and When…When, Where, and How?

Jan Johnson, CSCSA
Forensic Specialist, Forensic Pieces Inc., Pensacola, Florida
Dr. Laura Pettler, CSCSA
Owner, Carolina Forensics, LLC, Waxhaw, North Carolina

This workshop is also offered as W119, Monday. Everything listed as the learning objectives under W119 will be covered except for hands-on laser trajectory.

8:00am – Noon - Room #556A
W17 $50 (Intermediate Workshop)

Distortion: Analysis and Discussion (Effect and Cause)

Sandra D. Siegel, CLPE
Latent Print Examiner, Forensic Division, Austin Police Department, Texas

This workshop is also offered as W16 on Tuesday. The learning objectives are provided under W16.

8:00am – Noon - Room #552B
W29 $40 (Basic Workshop)

Developing, Documenting and Lifting Latent Prints on Regular, Unusual and Textured Surfaces

Dick Warrington
Consultant / Instructor, Lynn Peavey Company, Lenexa, Kansas
Owen M. McDonnell Jr., CLPE, CSCSA, CTPE
Lieutenant, Crime Scene Investigations Division, Caddo Sheriff's Office, Shreveport, Louisiana

This workshop is also offered as W28, Thursday. The learning objectives are provided under W28.

8:00am – Noon - Room #551B
W46 $60 (Intermediate Workshop)

Creases and 3rd Level Details Workshop

John R. Vanderkolk
Laboratory Manager, Indiana State Police Laboratory, Fort Wayne

This workshop is also offered as W44 Tuesday and W45 Thursday. The learning objectives are listed under W44.

8:00am – Noon - Room #557
W53 $60 (Intermediate Workshop)

Universal Latent Workstation (ULW) Software – Intermediate/Advanced

Marian M. Price and Andy Roush
Training Instructors, Federal Bureau of Investigation/Criminal Justice Information Services Division, Clarksburg, West Virginia

This workshop will focus on the new features and functionality of the Universal Latent Workstation (ULW) software. The ULW software will enable latent examiners to search the FBI's Biometric Repository by finger, palm, or supplemental images. This session will primarily focus on the use of the software as it relates to latent palm print and supplemental transactions. Some of the information covered in this session includes: encoding minutiae points; adjusting file penetration; designating repositories for searches; and conducting comparisons. This workshop is designed for Latent Print Examiners who are experienced with the ULW software (versions 6.0 and newer), and enter latent prints in the ULW for search through the FBI's Biometric Repository. **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #551A
W58 $40 (Advanced Workshop)

DSLR: Low Light Photography and Infrared Imaging

Jeff Scozzafava
Detective, County Prosecutor's Office, Somerset, New Jersey

This workshop is intended for individuals who document crime scenes and evidence. This hands-on workshop will provide lecture and practical experience developing the attendee's proficiency in DSLR use. This workshop will have two sections: obtaining acceptable quality images in low light utilizing long exposure and an in depth introduction to infrared photography. Attendees will have the opportunity to obtain forensic IR images utilizing provided dedicated infrared DSLR cameras. Attendees should bring a DSLR camera to the workshop and if available a tripod for long exposure exercises and laptop to review and archive their images. **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #552A
W60 $50 (Intermediate Workshop)

Demystifying Error Rates Workshop

Dr. Glenn Langenburg, CLPE
Forensic Scientists, Minnesota Bureau of Criminal Apprehension, St. Paul

This workshop will focus on the proper computation of error rates and related statistics in decision making (i.e. sensitivity, specificity, false discovery rates, etc.). Students will get a brief overview of the meaning and importance of these statistics. They will then perform multiple exercises, increasing in depth and complexity, to practice computing these statistics. The mathematics in this workshop are NOT DIFFICULT and involve basic arithmetic. The material and focus of the course will aid the student in understanding and applying the SWGFAST standard "Standard for the Definition and Measurement of Rates of Errors and Inappropriate Decisions in Friction Ridge Examination (DRAFT), 2011". Finally, students will be provided with appropriate ways to address and answer questions about error rates in court. The course is INTERMEDIATE level and students will need a calculator (smart phone calculators are fine). Although the focus of the workshop is on issues in friction ridge examination, the course material is applicable to any comparative forensic science discipline. **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #555A
W62 $45 (Intermediate Workshop)

Demystifying Palm Prints – "The Next Generation"

Ron Smith, CLPE, CSCSA
President, Ron Smith & Associates, Inc., Collinsville, Mississippi
Jamie Bush CLPE, CSCSA
Regional Laboratory Manager, Mississippi Crime Laboratory, Meridian

This team approach lecture/workshop will encompass the major high points of Ron Smith's internationally recognized three-day palm print seminar. The purpose of this workshop is to substantially improve the ability of the latent print examiner to conduct latent print comparisons in a more time and cost efficient manner. It is designed to benefit examiners and crime scene specialists at all expertise levels from the new trainee to the latent print section supervisor. This is accomplished by teaching the students how to recognize the numerous "orientation clues" that normally appear in palm prints. Practical exercises will be conducted on the overhead screen so fingerprint magnifiers are not required for participation in the workshop. Both instructors will be involved in the lecture material as well as the practical exercises. As always, the work will be intense but not as intense as the fun! **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #556B
W86 $30 (Advanced Workshop)

Advanced Tenprint Comparison Techniques

Kenneth Blue, CTPE
Law Enforcement Information Manager, Tennessee Bureau of Investigations, Nashville
Kevin Burke, CTPE, CLPE, CSCSA
Friction Ridge Examiner, Andover Police Department, Massachusetts (Retired)

This workshop will have a combination of lecture and hands-on practical's. The students will be given multiple "clues" to enhance their comparison pace and several practical "tests" to hone their comparative skills. This will be valuable to those preparing for the Certification test. This workshop will be even beneficial to the basic friction ridge examiners. New latent examiners will also find this workshop helpful in preparing for their comparative test as well. **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #553B
W103 $50 (Advanced Workshop)

Latent Print Testimony 301 Workshop

Melissa R. Gische and Christine E. Davis
Physical Scientists/Forensic Examiners, Federal Bureau of Investigation, Quantico, Virginia

As the scientific reliability of friction ridge evidence continues to be challenged, latent print examiners need to be prepared to respond during trial testimony. Recent reports from the NAS and NIST have identified perceived weaknesses in the latent print discipline and have generated challenges in the courtroom. As new research becomes available and limitations of the discipline are better understood, latent print testimony has had to evolve. Through presentations and group discussions, participants will learn to defend the scientific reliability of latent print evidence and formulate responses to defense-related arguments. This 4-hour workshop is designed for experienced latent print examiners or those with a more extensive knowledge of current topics impacting the latent print discipline and is part three of a three part series (Latent Print Testimony 101, 201, and 301). The workshops are designed to build upon one another; however 101 and 102 are not perquisites to attend this workshop. This workshop is considered a group interaction workshop, not hands-on. **Friday is the only day this workshop is offered.**

8:00am – Noon - Room #554B
W122 $30 (Basic Workshop)

Latent Print Comparison 101 for CSI's

Michael Campbell, CSCSA
Training Coordinator, Ron Smith and Associates, Inc., Pewaukee, Wisconsin

Trying to connect a suspect to a crime or eliminating them from further consideration is the reason we process so many crime scenes. Latent prints do that job very well because of their unique ability to be searched through an AFIS system against millions of possibilities, which can then allow the examiner to quickly identify potential suspects. In many cases where you have no other worthwhile leads, those latent prints can provide a definitive answer very efficiently. But not all latent prints are created equal and as a crime scene tech, investigator or supervisor it could be less frustrating if you knew more about the prints you recover and submit.

If you have ever felt that the prints you have worked so hard to collect don't receive proper consideration and are unfairly labeled "No Value" come and see for yourself what needs to be found in those little pieces of print. While this workshop will not make the participant a fingerprint examiner, it will give you a much better understanding of what an examiner needs to see in the prints that are submitted and how the attendees can improve their chances of a match by understanding this evidence better. Participants do not need to have previous training in fingerprint identification to benefit from this workshop.

This workshop is designed for crime scene technicians, detectives/investigators, their supervisors, medical examiner investigators and others associated with crime scene investigations, as was well as those who are new Tenprint or Latent print examiners and those who want a "refresher." This workshop will assist the participants with the recognition of their patterns and other "class characteristics and learn new and proper terminology and get a grasp of what a "print of value is" what "AFIS quality" means and many other facets of this important field. **Friday is the only day this workshop is offered.**

"Success through Education"

CALIFORNIA STATE DIVISION

Peter Williams CSD-IAI President

40-hour Training Seminar

April 28th to May 2nd, 2014

Riverside Marriott • 3400 Market St. • Riverside, CA

California State Division would like to extend warmest regards to the conference delegates

Co-Host Division of the IAI Centennial Conference - 2015

For CSD-IAI membership and seminar inquiries, please contact:

Russ Silcock, Secretary-Treasurer
P.O. Box 10
Roseville, CA 95678-0010

IAI Charter No. 1

A PROUD PAST - A BRIGHT FUTURE
I.A. C.I.
CENTENNIAL
1915 2015
IAI

www.csdiai.net

Need to Get Connected?

VISIT THE 3M COGENT CYBER CAFE

LOCATED OUTSIDE THE REGISTRATION AREA

Sponsored by

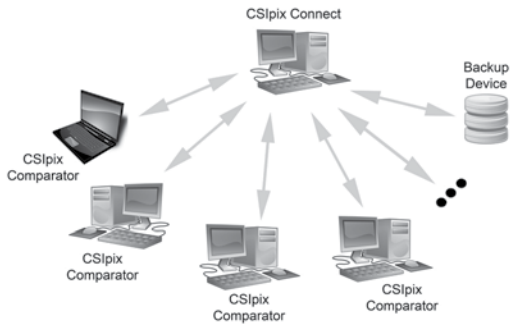
COGENT

a 3M Company

3M

NEW CSIpix® Connect

Connect your team to a secure database using CSIpix® Comparator (included on everyone's computer!)
See a demo at our Booth #709 at IAI 2013



- CSIpix® Comparator included on everyone's computer! (Discounts for current Comparator users)
- Connect the forensics team to Connect database – users log in with CSIpix® Comparator
- Assign individual CSIpix® Comparator users to only the Case Files they need to access
- Save all work done using CSIpix® Comparator back to secure Connect database
- Simple and easy to use "button style" menu for managing Case Files, Users and Backups
- Audit history of who accessed what file for how long
- Set alerts to notify administrator and/or users if a file has been processed by a certain date
- Create & Open NIST Files using the built-in NIST File editor

The Wisconsin Association for Identification

Extends Best Wishes to the International Association for Identification on the 98th Annual International Educational Conference

Please visit thewai.org website for
information on our upcoming 48th Annual Educational Conference
March 11-14, 2014.

www.thewai.org

Minnesota Division IAI

Celebrating 50 years...

2014

Proud to be a Sapphire Partner

See you in Minneapolis 2014!

BIOGRAPHIES

A

Abbott, Lynn – is a faculty member at Virginia Tech in the Bradley Department of Electrical and Computer Engineering. He has more than 25 years of experience in the areas of computer vision and pattern recognition. In the biometrics field, he and his colleagues have recently developed novel approaches for extracting friction-ridge information from gray-scale images, for improved localization of minutiae, and for applying data-mining approaches to the detection of features that are statistically rare. Other research interests include manufacturing automation, range estimation, and autonomous vehicle navigation. Dr. Abbott received a B.S. degree from Rutgers University, M.S. from Stanford University, and Ph.D. from the University of Illinois, all in Electrical Engineering.

Antunes, Joana – is a PhD. student in Biochemistry at Florida International University. Her research topic is on DNA methylation and its use in Forensic Sciences to discriminate body fluid types. She is supported by a research grant from the National Institute of Justice and working under the supervision of Dr. Bruce McCord. Joana is from Portugal where she got her undergraduate degree in Biochemistry. Her research was conducted in Endocrinology, Immunology, that led to the research for her Master's thesis, and Experimental Evolution. This experience was achieved in multicultural laboratories located in The Netherlands, San Francisco and Portugal. Her current interest lies in Forensic Sciences that allows the direct application of the scientific method and critical thinking to law enforcement.

Athanas, Karin - is a Senior Accreditation Officer at the American Association for Laboratory Accreditation (A2LA). She supports the day-to-day operations of accreditation, by assisting clients in obtaining and maintaining accreditation. She has been employed as an Accreditation Officer for A2LA since December, 2008. Ms. Athanas currently is the contact person for the A2LA forensic accreditation program and serves as the recording secretary for the Materials Testing Advisory Committee and the Forensic Examination Advisory Committee. Prior to joining A2LA, Ms. Athanas received her Masters in Forensic Science degree with a specialization in Crime Scene Investigation from the George Washington University, Washington, D.C. in May 2005 and her Bachelor of Science in Biology from the Arizona State University, Tempe, Arizona in 2002.

B

Bailey, Gregory B. - is an active member of the IAI and serves on the Firearm Toolmark committee, the JFI Editorial Board, and the International Aspects Committee. He is Secretary Treasurer and Conference Planner for the IAI Michigan Ontario Division and has ten (10) years' experience as a crime scene investigator, 26 years of service on DART (Disaster Assistance Recovery Team), and nine (9) years' experience as an IBIS Technician. He lectures in Emergency Management at the Detroit Medical Center, serves as a Provisional Assessor of Crime Scene and IBIS units, and has done IBIS unit assessments for the Standards Council of Canada. He is currently writing a book on Automated Ballistics Systems worldwide.

Baldwin, Kristilyn - is a Certified Crime Scene Analyst, and has been working in crime scene processing, scene management and forensic photography since 2006. Kristilyn also teaches Police Photography at Chandler-Gilbert Community College, and provides photography training within her department.

Ballou, Susan M. - is the program manager for Forensic Science in the Law Enforcement Standards Office (OLES) within the Office of Special Programs (OSP) at the National Institute of Standards and Technology (NIST). Since 2000, she has managed this program, which targets the needs of the forensic science practitioner by identifying and funding research at NIST in such areas as latent print analysis, burn patterns, computer forensics, and material standards. Her forensic crime laboratory experience spans over 27 years and includes working on case samples in the areas of toxicology, illicit drugs, serology, hairs, fibers, and DNA. She is a member of several forensic science associations. She holds fellow status with the American Academy of Forensic Science (AAFS), was past chair of the criminalistics section, had the opportunity to represent this section on the AAFS Board of Directors, and is a recipient of the AAFS Criminalistics Section's Mary E. Cowan Outstanding Service Award. She accepted the offer to join the Forensic Sciences Foundation Board of Trustees And chairs its Student Travel Grant Award Subcommittee. Ms. Ballou currently serves as the IAI liaison to NIST OLES to coordinate initiatives between NIST and IAI members. She holds a B.S. in Criminal Justice from the University of New Haven and a master's degree in Biotechnology from Johns Hopkins University and maintains Diplomate Certification with the American Board of Criminalistics, the certifying agency for forensic scientists.

BIOGRAPHIES

Banks, David – is a Forensic Identification Officer with Halton Regional Police Service in Ontario, Canada. He was approximately 15 years of experience in crime scene examination and photography. Detective Banks also a pilot in the UAV project team and has flown numerous missions. Several presentations have been conducted on the subject to groups and media outlets. He is actively conducting research on police UAV aerial photography with The University of Toronto.

Barette, Tammy S. - is Associate Professor and director of the Forensic Biology program at Keystone College, Pennsylvania. She received her Ph.D. in anthropology from The Ohio State University and has 15 years of experience in human skeletal recovery and analysis. Tammy has been teaching classes in forensic science, biology, human anatomy, and anthropology for 15 years at several colleges, universities, and professional organizations and is a Deputy Coroner in Lackawanna County. Tammy is a member of the Ohio State Bar and is currently a member of the IAI Science & Practice Crime Scene Investigation Sub-Committee and a member of the IAI Membership Committee on Student Issues.

Bavarian, Dr. Behnam "Ben" - is one of the pioneers and industry leading authority in the field of Fingerprint Biometric Identification with over 26 years of management, product development, and deployment experience in industry and academics. Currently he is one of the principal consultants of AFIS and Biometrics Consulting Inc., a firm which provides subject matter expertise consultancy and management services in the Biometrics Identification Industry. In the last 21 years, Dr. Bavarian led the development of three Automated Fingerprint Identification Systems products generations with over 150 large scale deployments. Prior to ABC Inc. he was the Vice President of Motorola Biometrics, where he led the business turnaround and fourfold increase in Sales. Before moving to industry in 1992, Dr. Bavarian was a professor in the Department of Electrical and Computer Engineering at the University of California, Irvine for eight years, where he conducted original research and published over 100 technical papers in the systems and computers and received several awards for outstanding research and distinguished teaching. Dr. Bavarian received his Ph.D. in Electrical and Computer Engineering from The Ohio State University, Columbus Ohio in 1984.

Bean, Greg - has been in law enforcement for 28 years, including 18 in investigations. Currently a detective and forensic artist with the Bellevue Police Department, his assignments have included CSI, Criminal Intelligence, Sex Offender Tracking and Investigations, Crime Analysis, Russian Organized Crime and Domestic Terrorism Task Forces, etc. Additionally, Detective Bean has more than 360 hours training as a forensic artist and has assisted with investigations for numerous police agencies in the greater Seattle area. Motivated by comments from fellow detectives around the county that lacked access to forensic art services, Detective Bean created and founded IDFA (Investigation Digital Forensic Art), and partnered with LeadsOnline to provide professional forensic art services to police departments around the nation.

Birch, Ivan - is a Consultant Expert Witness in forensic gait analysis with Sheffield Teaching Hospitals NHS Foundation Trust, and Academic Lead - Interdisciplinary for the Higher Education Academy in the UK. Ivan graduated in 1978 with a BSc Joint Honours in Science from the University of Salford, gained an MSc in Human Biology from the University of Loughborough in 1980, and was awarded a PhD in Biomechanics by the University of Brighton in 2007. He has extensive experience of teaching biomechanics, anatomy, physiology and research methods, and is a Professional Member of the Forensic Science Society, Fellow of the Higher Education Academy and Emeritus Professor of Human Sciences. He has more than 30 years' experience of gait analysis.

Black, John – is a Senior Consultant and Facility Manager for Ron Smith & Associates, Inc. in Largo, Florida. He holds a Bachelor of Science degree in Forensic Chemistry from Ohio University. John has been employed in forensic science since 1991. Prior to his current position, he worked for the South Carolina Law Enforcement Division and the U.S. Drug Enforcement Administration. John has conducted over 100 training classes throughout the United States, as well as in Africa, Belgium and the United Kingdom. He is recognized by the IAI as a Certified Latent Print Examiner, Certified Footwear Examiner and Certified Senior Crime Scene Analyst. He was awarded Distinguished Member status with the IAI in 2007.

BIOGRAPHIES

Blue, Kenneth E. - is employed by the Tennessee Bureau of Investigation, Nashville, Tennessee as the Law Enforcement Information Manager of the Law Enforcement Support Unit. Kenneth is a graduate of Jackson State University, Jackson, Mississippi, with a B.S. in Criminal Justice. He has over 18 years of experience in the recording, classifying and comparing of fingerprints associated with various suspects and crime scenes. Kenneth also conducts fingerprint training in the State of Tennessee where he served as supervisor of the Fingerprint Training Unit and has instructed agencies throughout Tennessee in recording legible fingerprints and fingerprint comparisons. He continues to compare and classify fingerprints in his daily routine. He is certified as Ten Print Examiner, serves on the Board of Directors of the International Association for Identification, present President of the Tennessee Division of the International Association for Identification, member of the AFIS Interoperability Task Force and past member of SWGFAST.

Bodziak, William J., AB, M.S.F.S. - served as a Special Agent with the FBI from 1970 through the end of 1998. For 24 of those years he was assigned to the FBI Laboratory where he conducted forensic examinations of questioned document, footwear and tire impression evidence. He contributed to numerous major investigations including the OJ Simpson and Oklahoma Bombing cases. He has authored the textbooks Footwear Impression Evidence and Tire Tread and Tire Track Evidence and has provided instruction on footwear and tire evidence both domestically and internationally since 1983. Mr. Bodziak currently operates Bodziak Forensics in Palm Coast, Florida.

Brandelli, Donna - is the forensics supervisor for the Torrance Police Department's forensic unit. She has more than 22 years in law enforcement in the Los Angeles area. She spent twelve years working as a crime scene investigator and latent print examiner for the Los Angeles County Sheriff's Department Crime lab. In 2010, she accepted a position with the Torrance police to establish a civilianized forensic unit, and help design and plan a new forensic laboratory from the ground up. She has presented programs to public safety agencies and universities around the country on topics in crime scene preservation, latent prints, and forensic science. She has taught police science and forensic science classes as an adjunct professor at various universities.

Brazelle, Mack - is a Fingerprint Specialist with the Treasury Inspector General for Tax Administration (TIGTA) Forensic Science Laboratory located in Beltsville, Maryland. Mack became a Certified Latent Print Examiner with the IAI in 2007 and a Certified Crime Scene Investigator in 2013. He is a Certified Criminal Justice Instructor with the N.C. Department of Justice. He served as an adjunct instructor for the N.C. Justice Academy teaching both Fingerprint Classification and Comparison and Advanced Fingerprint Identification.

Bright-Birnbaum, Kathleen - is a Certified Latent Print Examiner and the owner of Desert Forensics, a company specializing in forensic consulting and instruction. Ms. Bright-Birnbaum retired after thirty-two years of service with the Pima County Sheriff's Department's Forensic Unit but continues to serve the department part-time as a Latent Print Examiner, Automated Fingerprint Identification System (AFIS) site manager, and Forensic Artist. Ms. Bright-Birnbaum has been teaching Fingerprint Courses since 1980 and travels regularly to South Africa to present both her Advanced and Expert Ridgeology Science Workshops to the South African Police Service. She has been published in the Journal of Forensic Identification and Servamus Security Magazine, and has been on the Editorial Review Board for the Journal of Forensic Identification since 2001.

Brooks, Roger – FFS, is a detective with the Danbury Police Department, Danbury Connecticut. He has been an officer for 33 years and has served as a member of the Crime Scene Unit since 1984. He was certified by the IAI as a Senior Crime Scene Analyst and Bloodstain Pattern Examiner. He is a POST Certified Instructor. He has taught classes and lectured in those areas and in photography. Prior to his employment with the City of Danbury he was a professional photographer with 20 years of employment in Portrait and Commercial Studios and as a news photographer.

BIOGRAPHIES

Brown, Al - is a Special Agent with the South Carolina Law Enforcement Division (SLED) assigned to the Crime Scene/ Latent Print Unit. He has more than 13 years of experience in crime scene investigation and 5 years in bloodstain pattern analysis. Prior to his current assignment at SLED, Al served as a Crime Scene Specialist/ Shift Supervisor for the City of Durham NC Police Department. He as also worked as a defense investigator in the private sector. Al earned his Bachelors of Science degree in Criminology/ Criminal Justice from the University of South Carolina and earned certificates in Basic and Advanced Forensic Science from the American Institute of Applied Science. He has served as an instructor with the North Carolina Justice Academy and the South Carolina Criminal Justice Academy. Al began teaching classes related to crime scene processing and bloodstain pattern analysis in 2005. Al is certified by the IAI as a Crime Scene Analyst (CCSA) and Crime Scene Investigator (CCSI).

Brown, King Charles - holds a Masters degree in Criminal Justice, and is an IAI Certified Senior Crime Scene Analyst, Certified Forensic Photographer & Certified Latent Print Examiner. He is the Crime Scene Supervisor for the West Palm Beach (Florida) Police Department, Chairman of the Forensic Photography Certification Board for the State of Florida, Crime Scene Investigation Chair for the IAI Standing Subcommittee, Recipient of the Good of the Association Award and has been in the field of Forensic Science for over 25 years. Mr. Brown is an Adjunct Professor at Brevard Community College in the Crime Scene Technology Associates Degree Program, IPTM-University of North Florida, Orlando and an instructor for The Taylor Group teaching Crime Scene Photography, Basic & Advanced Crime Scene Search & Recovery and Advanced Latent Fingerprints. King has also been a lecturer at the IAI Training Conferences since 1996.

Brownfield, Julie – has been a latent print examiner since 1985. She currently is a Forensic Lead Specialist with the Spokane County Sheriff's Office where she trains specialists on latent comparisons, crime scene processing and documentation, AFIS and forensic photography. Julie has been certified as a Latent Print Examiner by the IAI since 1998. She is the President of the Pacific NW Division of the IAI and a life active member of the International IAI. She has been teaching Forensic Identification and Forensic Photography at Eastern Washington University for the last thirteen years. She also is a certified instructor for the Washington State Criminal Justice Training Commission in fingerprint techniques, crime scene processing and forensic photography.

Buba, Melody A. - is employed by the Federal Bureau of Investigation as an Electronics Technician in the Intrusion Detection Group specializing in the area of Digital Closed Circuit Television (DCCTV). Prior to joining the Intrusion group, Ms. Buba worked as a Forensic Video Examiner in the Forensic Audio, Video and Image Analysis Unit for eight years. Prior to her employment with the FBI, Ms. Buba worked as a Forensic Video Examiner at both the Commonwealth of Virginia State Crime Laboratory and the Defense Computer Forensic Laboratory. She has a Bachelor of Science degree in Law Enforcement and Forensic Science from the University of New Haven, Connecticut. Ms. Buba is the current Chair of the Scientific Working Group on Imaging Technology (SWGIT) and is an active member of the IAI, AAFS and NATIA.

Burke, Kevin J. - is recently retired police officer for the Town of Andover, Massachusetts. A position he has held for the past 37 years and has worked for Ron Smith Associates in the Houston Police Department Project, and in Largo Florida on the Latent Print Data Base Project. A graduate of Northeastern University, Boston, with a B.S. in Criminal Justice, Kevin has also graduated from the Massachusetts State Police Academy, 61st M.P.O.T.C. He has over 30 years of experience in the recording, processing, photographing, lifting, examining and comparing of fingerprints associated with various suspects and crime scenes. He has participated in all aspects of criminal investigation, crime scene processing, evidence collection and preservation and its analysis. He is currently an IAI Certified Ten Print Examiner, Certified Latent Print Examiner and an IAI Certified Senior Crime Scene Analyst. He is a recognized fingerprint expert in Massachusetts Federal, State and District Courts.

Burrow, John Gordon - is a registered and accredited Forensic Podiatrist in the UK and undertakes work for various police forces as well as defence solicitors throughout the UK. He is currently studying barefoot print collection and analysis systems for a Professional Doctorate award with Glasgow Caledonian University and is a Consultant Expert Witness with Sheffield Teaching Hospitals NHS Foundation Trust and Senior Lecturer in Podiatry at Glasgow Caledonian University, Scotland

BIOGRAPHIES

Buscaglia, Dr. JoAnn - is currently a Research Chemist in the Counterterrorism & Forensic Science Research Unit. JoAnn received her PhD from the City University of New York in 1999 and a B.S. and M.S. in Forensic Science from John Jay College of Criminal Justice. Prior to joining the FBI Laboratory in 1998, JoAnn worked for 10 years in academia and both private and public sector forensic science laboratories as a consultant. JoAnn's research is primarily focused in the areas of elemental analysis of trace evidence and statistical interpretation of forensic data. JoAnn has also been involved with research to support the scientific basis for forensic disciplines such as handwriting, fingerprints, shoeprints, and trace evidence for approximately 8 years.

Busey, Dr. Thomas - is Professor of Psychological and Brain Sciences at Indiana University, Bloomington, IN. He has worked on latent prints since 2002, collaborating with John Vanderkolk. With support from two NIJ grants, he has addressed questions on the nature of information used when conducting identifications using behavioral methodology and eye tracking.

C

Campbell, Michael J. - is a 28-year veteran of the City of Milwaukee Police Department having retired as the Commanding Officer of their 55 member Identification Division. Upon retirement Mike accepted a position as the Training Coordinator for Ron Smith and Associates, Inc. a forensic training and consulting company based in Collinsville, MS. who now helps provide a variety of forensic classes throughout the US and other countries for RS&A. He has represented the forensic community on numerous committees, panels and boards and taught hundreds of classes, workshops and in-service programs over the last 20 years.

Campbell, Scott – is an instructor for Ron Smith & Associates, Inc. He is a retired Identification Supervisor from the Milwaukee Wisconsin Police Department with over 34 years of experience in patrol, SWAT, crime scene evidence and currently as an instructor. As a supervisor he was the training coordinator for the Identification Division. He is a Certified Senior Crime Scene Analyst and Certified Law Enforcement Instructor. Scott also provides training for the University of Arkansas - Criminal Justice Institute, North East Multi-Regional Training, Milwaukee Area Technical College, and has provided crime scene training and lectures in 19 states.

Carbonella, Elizabeth - is a Senior Accreditation Officer for the American Association for Laboratory Accreditation (A2LA). She supports the day-to-day operations of accreditation, by assisting clients in obtaining and maintaining accreditation and is a lead instructor in ISO/IEC 17020 assessment and accreditation. She has been employed as an Accreditation Officer with A2LA since November 2006. Ms. Carbonella received a B.A. degree in Mathematics with a minor in secondary education from Eastern University in St. Davids, PA. Ms. Carbonella passed the A2LA Assessor Orientation Course in March of 2007. She was signed off as a staff approved quality system assessor in November of 2007. She currently represents A2LA on ASTM committee E01, E28 and F16.

Carlsson, Jens – is a forensic engineer with more than 17 years of experience in fingerprint identification. In 1999 he successfully completed New Scotland Yard's Advanced Fingerprint Course and is a certified fingerprint expert by the Nordic Fingerprint Certification Board. He is currently with the Stockholm Police Crime Laboratory, Sweden.

Carlsson, Kjell – has worked for the Stockholm Crime Laboratory for the past thirty-years and before that, ten-years for the Swedish National Forensic Laboratory. His basic education is Mechanical Engineer Degree. He is a specialist in the examination of tool marks, shoeprints, plastic bags, fingerprints and forensic photography. He also works part-time for the Swedish Police Academy with teaching crime scene investigators. Some of Kjell's international works has been teaching in several developing programs in the Baltic States, South Africa and the Beijing Police Academy. For the past twenty-years Kjell has presented workshops and training at the IAI conferences. Kjell developed methods and products such as, Snow print Wax, Mikrosil, a Vacuum Box, a Versa Light Box and Wet Wop (Wet Powder).

BIOGRAPHIES

Cerchiai, Brian – is currently employed by the Miami-Dade Police Department as a Latent Print Examiner. He received his Bachelor of Science degree in Sociology with an Undergraduate Certificate in Demographics from Florida State University in 1997. He is a Certified General Instructor through the Florida Department of Law Enforcement and has instructed Basic Fingerprint Classification & Comparison, Advanced Fingerprint Science Workshop for Tenprint Examiners, Basic Evaluation & Comparison of Latent Prints, and Latent Fingerprint Evidence Processing Workshops. Brian has also been an instructor for the Criminal Investigations Program at Everest Institute. Is the current Chair of the FDIAI Tenprint Identification Committee, serves on the FDIAI Tenprint Certification Committee, and serves on the IAI Latent Fingerprint Identification Committee.

Chu, Dr. Wei – is a guest researcher at the National Institute of Standards and Technology (NIST). He obtained his Ph.D. in Mechanical Engineering in 2004 from Harbin Institute of Technology, China. He has more than 10 years of experience in research of image and signal processing technology. He has been working at NIST for 5 years in the field of firearm and toolmark identification research and has more than 20 publications. The projects he participated include development of NIST SRM 2460/2461 standard bullets/standard cartridge cases; National Ballistics Imaging Comparison (NBIC); establishment of the "National Ballistics Evidence Search Engine (NBESE)".

Chun-Chieh, Chen - is a visiting scholar at the Henry Lee Institute of Forensic Science, where he conducted research on latent fingerprint development. He works as a Crime Scene and Latent Fingerprint Examiner at the Changhua County Police Bureau in Changhua City, Taiwan.

Clark, Nancy - is a Forensic Identification Specialist I with Los Angeles County Sheriff Department. She has more than 10 years of experience in the Forensic Field. Nancy has been teaching classes in Ten Print examination for more than 5 years and has taught at professional organizations throughout the US and Central America. Nancy is currently the Chairperson of the IAI Ten Print Subcommittee and is certified by the IAI as a Ten Print Examiner.

Clarke, Kelly A. – is a Physical Scientist/Forensic Examiner with the Terrorist Explosive Device Analytical Center Latent Fingerprint Unit (TLFU) at the Federal Bureau of Investigation Laboratory in Quantico, VA. She received two Bachelor of Arts degrees in Biological Sciences and Law and Society from University of California, Santa Barbara in Santa Barbara, California and her Master of Forensic Science degree in Forensic Science from The George Washington University. Kelly's current duties include case work, agent training, and work on latent print admissibility issues as a member of the Fingerprint Legal Advisory Group.

Condoleon, Peter - is the Senior Sergeant Officer in Charge of the Training and Research Section at the Queensland Fingerprint Bureau. Peter has had over 24 years continuous experience in comparison and identification of fingerprints, and conducting fingerprint examinations at major crime scenes. He was the former chair (2007-2012) of the Australian Fingerprint Scientific Working Group (SWG). Peter's vast experience includes organising and facilitating training for fingerprint technicians and scenes of crime officers, examining trainees in both theoretical and practical assessments and presenting lectures in the Science of Fingerprints. Peter has performed the role of an assessor for the Australasian Forensic Field Sciences Accreditation Board (AFFSAB) on numerous occasions. He has also assisted the National Association of Testing Authorities (NATA) Australia as a Technical Assessor. Peter is the Queensland certified workplace coordinator of a national training package; Diploma of Public Safety (Forensic Investigation).

Cooper, Karen - was employed with the Florida Department of Law Enforcement from May 1980 through July 2013. She was certified by the FDLE to perform independent casework in crime scene analysis and was involved in crime scene work throughout her career. She supervised the Latent Print/AFIS, Crime Scene and Photography Sections in the Fort Myers Crime Laboratory. She is a graduate of Florida State University with a Bachelor of Science degree in Biology. Karen has provided instruction to many law enforcement agencies in the areas of collection and preservation of physical evidence, all aspects of crime scene processing and forensic archaeology. She has conducted workshops for the IAI, FDIAI, GDIAI and the NSDIAI in forensic archaeology and is currently an adjunct instructor for the Institute for Police Technology and Management.

BIOGRAPHIES

D

Dadmun, Mark D. - has been a Professor of Chemistry at the University of Tennessee for eighteen years. Mark is a polymer scientists who is working to understand the molecular level processes that occur in, and parameters that control, the polymerization of cyanoacrylates during the fuming of latent fingerprints. He has used traditional polymer chemistry techniques to examine the growth of polymer chains that occur during the fuming process to provide insight into the molecular level processes that transpire and impact the quality of the resultant print. To aid forensic scientists, this fundamental understanding is then used to develop methods and protocols to improve the quality of aged prints.

Dalley, Iris - was a Criminalist in Forensic Serology and Crime Scene Processing/Reconstruction, Supervisor of the OSBI Eastern Regional Biology Laboratory, and one of the first OSBI Investigative Division's Crime Scene Agents. Dalley is a partner in Bevel, Gardner and Associates. Dalley has a B.S./Biology and a M.A/Secondary Sciences, and has taught Bloodstain Pattern Analysis, Crime Scene Investigation and Reconstruction, Shooting Incident Reconstruction, and Scene Documentation and Forensic Animation. She is a Certified Senior Crime Scene Analyst and a Certified Crime Scene Reconstructionist. Dalley is a member and past president of the IABPA, Charter Member of the Association for Crime Scene Reconstruction, and a member of the IAI Crime Scene Certification Board.

Dalrymple, Brian - began his career in 1971 in identification with the Ontario, Canada Provincial Police, Forensic Identification Services. In 1977 he co-developed the technique of evidence detection with argon lasers through inherent fluorescence and became the first in the world to operate an argon laser for the detection of evidence in criminal investigations. The extensions of this technology are now in global use and have provided crucial evidence in hundreds of major investigations. In 1991, as Associate Section Head, he introduced the first Computer Evidence Enhancement System to Canada, and later became the first Canadian to tender expert evidence in this discipline. In 1992 he was promoted to Manager, Forensic Identification Services, a position he held until his retirement in 1999. He initiated and co-wrote the Body Examination Protocol for the Province of Ontario, Canada. Brian Dalrymple has taught extensively in North America and the Middle East. He is the recipient of the John Dondero Award (1980, IAI), the Award of Merit (1980, Institute of Applied Science), the Foster Award (1982, the Canadian Identification Society) and the Lewis Minshall Award (1984, Fingerprint Society). Brian has also been awarded numerous performance citations, including three Commissioner's Commendations. He has published extensively in the disciplines of luminescence detection, photography of evidence, and digital enhancement of evidence and served as a contributing author in the Encyclopedia of Forensic Sciences (Academic Press – 2000). Brian Dalrymple is currently an instructor at the Ontario Police College, and provides forensic consulting for police agencies, private sector and attorneys. He has joined the Ron Smith & Associates, Inc. team of forensic experts as a consultant and staff instructor.

Davis, Christine E. – is a Physical Scientist/Forensic Examiner with the Latent Print Operations Unit at the Federal Bureau of Investigation Laboratory in Quantico, VA. She received her Bachelor of Arts degrees in Chemistry from the College of Saint Rose in Albany, New York and her Master of Forensic Sciences degree in Forensic Chemistry from The George Washington University in Washington, DC. Christine's current duties include case work and agent training.

Dechant, Penny - has been employed as a Criminalist with the Arizona Department of Public Safety, assigned to the Latent Print Unit, since 2004. She earned a BS in Chemistry from Northern Arizona University in 1995. Penny worked as a Crime Scene Specialist for the Scottsdale Police Department from 2000 to 2004. Penny is a member of the IAI, SWAFS, and is a CLPE. Currently, Penny is the Technical Leader for the Latent Print Unit at AZDPS and serves as the 2nd Vice President for the Arizona Identification Council.

Deshpande, Kaustubh - is the Product Manager for the Livescan Software and Face Recognition Solutions. In his role, he is responsible for providing technical, market and business direction for the Booking Stations and the Face Biometric Products. Kaustubh joins MorphoTrak from L-1 Identity Solutions and has been working in the biometrics field for 10 years. He holds a M.B.A from New York University, a M.S.E.E degree from West Virginia University and is a certified PMP.

Doglietto, Dave - is a twenty-plus year veteran of the California Department of Corrections & Rehabilitation. He is currently assigned as the supervising investigator at the Correctional Training Facility, Soledad State Prison. He has been the lead investigator at the Security & Investigations Unit since 1998, responsible for investigating all major crimes involving the inmate population, whether at the facility or in the community. He is a Certified Senior Crime Scene Analyst, an Adjunct Instructor at Hartnell Community College in Salinas, California and a California POST certified instructor.

Doretti, Brett - is a Lead Forensic Specialist with the Orange County Sheriff's Department/OC Crime Lab. He was a professional photographer for twelve years before joining the Sheriff's Identification Bureau in 1998. Brett specializes in crime scene investigation, latent print processing, shoeprint and tire track examination, and is a member of the clandestine laboratory task force. He is an adjunct professor with Golden West College in Huntington Beach, CA, and an instructor for California State University Long Beach Center for Criminal Justice, teaching classes in Crime Scene Investigation and Forensic Photography. Brett is an IAI Certified Forensic Photographer and currently serves as the Chair of the Science and Practices Sub-committee on Forensic Photography and Electronic Digital Imaging for the IAI.

Dow, Larry - is an Applications Engineer for Foster and Freeman. He has a BS in Biology and a Masters in Secondary Science Education. He was the President of ODV, Inc. manufacturing narcotic field identification kits and selling and lecturing on forensic light sources for 17 years. Larry has taught several thousand officers how to identify control substances using field kits. He has also taught light source use and theory since 1992. Thousands have benefited from his ability to present light source physics in an easy to understand format. Larry is recognized as an expert witness and an accomplished lecturer. He is currently teaching digital enhancement techniques using Image Pro-plus and Foster and Freeman's DCS4 system.

Downham, Rory - obtained a degree (BSc, dual hons.) in Chemistry and Physical Geography from Keele University, UK in 2004. He spent two years in industry before joining the Home Office Centre for Applied Science and Technology (formerly HOSDB) in 2008, becoming part of the Fingerprint and Footwear Forensics project team. He has been actively involved in fingermark development research which has lead to national guidelines in the UK, but additional responsibilities have included support to counter drugs technologies research. He is currently a co-author on the 3rd Edition Manual of Fingerprint Development Techniques.

Downing, Edward T. - is presently employed as a Criminalist II, Latent Print Examiner for the Rhode Island State Crime Laboratory at Kingston, Rhode Island. He has over 29 years of experience in latent print development and comparisons.

Doyne, William G. – is currently employed as a DA Civilian at the US Army Criminal Investigations Laboratory and serving as the Latent Print Branch Technical Leader. Mr. Doyne is certified as an IAI Latent Fingerprint Examiner and Footwear Examiner. Mr. Doyne has a significant amount of experience working not only US Title 10 criminal cases but also expeditionary forensics. He assisted setting up the Iraqi AFIS in Bagdad, Iraq, served as the USACIL Reach Back Operations Chief and Program Manager and set up and managed the first USACIL Joint Expeditionary Forensic Facility in Kandahar Afghanistan. He has a Bachelor of Science degree in engineering from the US Military Academy, a Master of Arts in Chemistry from Villanova University, and a Public Education Certification from Wilson College. Mr. Doyne is a retired US Army Colonel with over 30 years' service as an infantry officer.

Duncan, Christopher D. – Chris began his law enforcement career in 1987 with the Alexandria (VA) Sheriff's Office and has been with the Houston (TX) Police Department since 1992. Chris became a crime scene investigator assigned to the Homicide Division in 1997 and has never looked back. He has a B.A. in History from George Mason University and a M.A. in Criminology from the University of Houston. He is certified by the IAI as a Forensic Photographer, Bloodstain Pattern Analyst, and as a Senior Crime Scene Analyst. Chris is the author of numerous journal articles and Advanced Crime Scene Photography, published by CRC Press. In addition to his duties as a crime scene investigator, he also is an instructor at the Houston Police Academy and teaches with the Texas Engineering Extension Service through Texas A&M University.

BIOGRAPHIES

E

Eggers, Christen - is the lead investigator for the unidentified program as well as a certified Medicolegal Death Investigator for the Maricopa County Medical Examiner's Office. She was worked for the medical examiner's office for 10 years and has been specifically working with the unidentified cases for nearly 4 years. Christen also teaches criminal justice courses at Everest College in Phoenix. Christen is a member of several forensic academies including the American Academy of Forensic Sciences.

Egi, Kathy – has thirty-seven yeas in Forensics which is comprised of fingerprint identification, latent prints and crime scenes. She worked for the FBI, Lakewood Police Department and is currently with Oregon State Police for past sixteen years. She served on the Rocky Mountain Division of the IAI (RMD-IAI) Disaster Team for 17 years and has served as Editor for RMD-IAI for five-years and currently serves on the Disaster Mortuary Response Team (DMORT). While serving on the disaster teams, Ms. Egi responded to a plane crash, two train wrecks, 9/11 and Katrina. She is also involved with most of the recovered unknown bodies in Oregon to determine their identity.

Esperança, Philippe - started his career in Forensic Sciences in 1990 being the scientific support for the creation of the Forensic Entomology Department of the French Gendarmerie Forensic Institute. The same Institute asked Philippe to create a Bloodstain Pattern Analysis Service in 1999. The discovery of this discipline over self-conducted practices and trainings in Canada was a great time to Philippe. In the same time, he obtained a General Forensic MS. He developed the French BPA procedures and he has educated the French Gendarmerie Criminal Scene Investigators about BPA until he left the French Gendarmerie in 2008. His first BPA expertise was in 1999 with a butchering and just after with a triple homicide. He contributed to the development of the Bluestar chemical product in 2000-2001. He became the first qualified BPA expert for the French criminal court in 2002 with the murder of a judge in the Reunion Island. Since 2008, he works in a private forensic laboratory for the French magistrates. He is Bloodstain Pattern Expert for the International Criminal Court and also for France. He has also been appointed as a Bloodstain Pattern Expert for cases outside France (Belgium, US, Morocco). He gives lectures in front of many different people including university students. Philippe is an IABPA member since 2000, a SWGSTAIN member since 2006 and an IAI member since 2010. He obtained the IAI BPE certification in 2012. His goals are to have good time and for BPA, to develop objective methods for the identification of the Bloodstain Patterns.

Everist, Steve – is a latent print examiner with King County Regional AFIS in Seattle, Washington. He has over 17 years of experience in friction ridge comparative analysis. Steve served on the International Association for Identification (IAI) Latent Print Identification Committee and is both an IAI Certified Latent Print Examiner and an IAI Certified Crime Scene Analyst. Steve holds a Bachelor of Arts degree in Society and Justice from the University of Washington. He has provided training in digital imaging and creating digital charts for courtroom testimony to agencies throughout the United States.

F

Farrell, Kathleen - is the Lead Fingerprint Specialist with the Treasury Inspector General for Tax Administration (TIGTA) Forensic Science Laboratory located in Beltsville, Maryland. Kathleen has been a latent print examiner for over fifteen years and received her certification as a Latent Print Examiner in 2003. Kathleen has served as an adjunct instructor for a community college where she taught Fingerprint Classification and Comparison.

Ferber, Krityn – earned a B.S. in Biology from Houghton College and a M.S. in Biomedical Forensic Sciences from Boston University, School of Medicine. She was employed in the position of QC Analyst DNA Section at the Massachusetts State Police Forensic Technology Center in Maynard. Kristyn's thesis was entitled: "Quantifying the Uniqueness of Fingerprints from the Same Source".

Fitzpatrick, Frank - is the retired Laboratory Director of the Orange County (CA) Sheriff's Department Forensic Science Services Division. He is past board member and Chair of ASCLD/Laboratory Accreditation Board and presently lead assessor for ANSI-ASQ National Accreditation Board/Forensic Quality Services. He is a member of SWGFAST and served on the International Panel on the Madrid case for the FBI. He is a trained ISO 17020 and 17025 lead auditor and lecturer in accreditation and audit principles.

Fontaine, Elizabeth K. – is a Physical Scientist/Forensic Examiner with the Latent Print Operations Unit at the Federal Bureau of Investigation Laboratory in Quantico, VA. She has qualified as an expert witness in the discipline of latent prints and testified in federal and state court. Liz received a Bachelor of Science degree in Microbiology from the University of Rhode Island and a Master of Science degree in Pharmacy and Pharmaceutical Sciences from the University of Florida.

Ford II, Gary L. – is currently a Team Leader and Training Coordinator at the US Army Criminal Investigation Laboratory. Mr. Ford is certified by the US Army and the International Association for Identification as a Latent Print and Footwear Examiner. He holds a Bachelor of Science degree in Cell and Molecular Biology from Missouri State University. Gary has more than 13 years of experience in the science of latent impression examination and has instructed at academic and federal organizations around the world. He currently serves as the Chairman of the IAI General Forensics Subcommittee.

French, Mike - advises and validates new applications and products for forensic, defense intelligence and civil applications, conducts expert training, and supports AFIS research and development at MorphoTrak. Mike has over 15 years' experience in forensic/biometric identification. As a latent print examiner he served as latent print unit technical lead and trainer for crime scene processing, laboratory development, and evidence examination. Mike's specialties include crime scene investigation, evidence imaging, latent print development and matching, and biometric system testing. Mike has a bachelor's degree from Central Washington University and serves on the Journal of Forensic Identification Editorial Review Board and the IAI latent print identification subcommittee. Mike is an IAI Certified Latent Print Examiner, and a Certified Biometric Professional by the IEEE.

Freitas, Rui - is a Forensic Identification Officer with Halton Regional Police Service in Ontario, Canada. He has approximately 15 years of experience in crime scene examination and photography. Detective Freitas also a pilot in the UAV project team and has flown numerous missions. Several presentations have been conducted on the subject to groups and media outlets. He is actively conducting research on police UAV aerial photography with The University of Toronto.

Frowner, Crystal - has been a part of the law enforcement community for more than 7 years. She began her career as a Ten Print Examiner with the Kansas City Missouri Police Department and is currently working in the Latent Print Section as an Forensic Specialist II. She has been an active member of the IAI and currently serves as a member of the IAI Ten Print Board.

Fuller, Cynthia - is a Forensic Quality Improvement Tenprint Area Manager and Quality Improvement Supervisory Fingerprint Examiner assigned to the Federal Bureau of Investigation's (FBI), Criminal Justice Information Services (CJIS) Division, Biometric Services Section (BSS) Quality Improvement Unit (QIU). She has more than 36 years and 9 months of services and experiences in the Tenprint Forensic Field of study, research, and on the job performance with the FBI, since April 25,1976 - Present.

G

Gabel, Jessica – is an Associate Professor of Law at Georgia State University College of Law. Professor Gabel teaches courses on Forensic Evidence; Forensic Medicine, Bankruptcy and Contracts. Her research focuses on fraud and ethics across multiple fields: law, business and science. She has written articles on wrongful convictions, forensic science, genetic testing, forensic DNA identification, trial and jury tactics, and bioethics. She received her JD magna cum laude from the University of Miami School of Law and her bachelor of science, summa cum laude, from the University of Central Florida. Prior to joining Georgia State University College of Law, she clerked for Judge Peter T. Fay of the United States Court of Appeals for the Eleventh Circuit. She then practiced law with Covington & Burling LLP in San Francisco focusing on bankruptcy and white collar criminal defense. Professor Gabel is also a frequent contributor of opinion pieces for various publications, and consults on bankruptcy, legal ethics, and criminal matters. She has engaged in numerous pro bono criminal defense representations. Recently, she successfully appealed a wrongful conviction and death sentence in Mississippi, resulting in her client's freedom.

BIOGRAPHIES

Gallant, Michelle - is a Physical Scientist/Forensic Examiner with the Latent Print Unit of the Federal Bureau of Investigation Laboratory in Quantico, VA. Michelle received her Bachelor of Arts degree in Psychology with a minor in pre-medical studies from the University of Maine and her Master of Forensic Sciences degree in Crime Scene Investigation from the George Washington University. Michelle's current duties include case work, agent training, and research.

Giacometti, Eleanor - has been a Forensic Scientist specializing in latent fingerprints with the Illinois State Police for over seven years. She holds Master's level degrees in both Forensic Science (University of Illinois, Chicago) and Biochemical Engineering (University College London, England), and has lectured on this topic internationally.

Gische, Melissa R. - is a Physical Scientist/Forensic Examiner with the Latent Print Operations Unit at the Federal Bureau of Investigation Laboratory in Quantico, VA. She has qualified as an expert witness in the discipline of latent prints and testified in federal and state court. Melissa is the chair of the Scientific Working Group on Friction Ridge Analysis, Study, and Technology (SWGFAST) and is a member of various latent print working groups and committees. Melissa received a Bachelor of Science degree in Psychobiology from the University of California, Los Angeles and a Master of Forensic Sciences degree in Forensic Science from The George Washington University.

Goldey, Jon - is an employee of the SPEX Forensics Division of Horiba Instruments Incorporated of Edison, New Jersey, USA. He has been with the company since 2002. Jon has worked with law enforcement agencies since 1994 and has trained many departments, at all levels of government, in the use of Forensic Light Sources, Digital Enhancement Software, RUVIS, and AFIS. Jon has held lectures on the subjects of Forensic Light Sources, RUVIS and Digital Image Processing/Enhancements at the IAI, regional IAI meetings and International conferences. Jon has acquired an extensive sales and public speaking background throughout his career and is a graduate from the University of South Florida with a BA in Sociology.

Gorden, Michael – is currently employed by the Federal Bureau of Investigation (FBI) as a Supervisory Fingerprint Examiner. He received his Bachelor of Science degree in Criminal Justice from Florida International University in 1996. Michael has been a Certified Tenprint Examiner through the International Association for Identification (IAI) since 2006 and is currently a Board of Director for the IAI. He is a member of the Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST). Michael is also the President of the Chesapeake Bay Division of the IAI (CBDIAI). He is a Certified Instructor with the FBI and a Certified General Instructor through the Florida Department of Law Enforcement.

Gorn, Michael - is currently the Supervisor of the Forensic Unit for the Sarasota Co. Sheriff's Office in Florida. He previously worked for the Boston Police Department Crime Laboratory and LGC Forensics in the United Kingdom. Michael holds a Master of Science degree in Forensic Science with a concentration in Criminalistics and a Bachelor of Science degree in Biology. He is certified in crime scene investigation through the IAI and is a Fellow of the American Board of Criminalistics. Michael is also a member of the Scientific Working Group for Shoeprint and Tire Tread Evidence (SWGTREAD) and the Technical Working Group on General Forensics as well as the chair of the IAI Footwear and Tire Track Examination sub-committee.

Graham, Grant - is the Forensic Supervisor for the Fayetteville Police Department. He has testified as an expert in crime scene investigation, bloodstain pattern analysis and shooting incident reconstruction. He has ten years of experience as a senior crime scene investigator for the Mississippi Crime Laboratory and Mississippi Bureau of Investigation, and was the crime scene investigation and forensic aspects of death investigation instructor for the Mississippi Certified Investigator Program. Grant has a Masters of Forensic Sciences; is a Certified Bloodstain Pattern Examiner, a Certified Senior Crime Scene Analyst, is Secretary of the IAI Bloodstain Pattern Examiner Certification Board and served for over 20 years with the Air Force Security Police.

Gray, M. Leanne - is a CLPE and a CFWE, specializing in both fingerprint and footwear examinations. She has worked at the state level in a crime laboratory for the past 27 years. As part of her private business, Gray developed these workshops, detailing a thorough explanation as to how to document the ACE-V methodology in bench notes. She has taught a version of this workshop to over 650 students, for the IAI as well as the USSS and DEA in addition to some state-level IAI divisions, private vendor conferences as well as to city police departments. She has published articles in the Journal of Forensic Identification as well as Fingerprint Whorld. She is the author of the chapter on Quality Assurance in the Sourcebook, a guide for fingerprint examiners.

BIOGRAPHIES

Griffin, Tom "Grif" – has been a member of the IAI since 1988 and the Rocky Mountain Division since 1978. He is a partner in Bevel, Gardner & Associates, Inc. He retired from government service after 31 years in law enforcement. The last 27 of those years was as a criminal investigator/laboratory agent with the Colorado Bureau of Investigation. His areas of expertise include crime scene investigation, bloodstain pattern analysis, crime scene reconstruction and forensic chemistry. He is the current president of NecroSearch, International. Grif is IAI certified as a Senior Crime Scene Analyst, a Bloodstain Pattern Examiner/Analyst, and Crime Scene Reconstructionist. He is currently a member of the IAI Bloodstain Pattern Certification Board.

Grivet, James - has an engineering and business background. Previous to joining the Safran Group in 2006 he worked for a number of start-up companies as a strategy development consultant for more than 10 years. In 2010 James started a new project in Safran Morpho; the development of DNA biometrics for use in the field. From the experience of two years of close collaboration with police forces around the world he is convinced that the time is right to bring DNA to field use for law enforcement. James is leading the drive to bring this technology into field use, initially through pilot operations, and he is driving the necessary validation and acceptance of this technology in cooperation with leading national laboratories.

Gurvis, Jeff - is a practicing independent forensic scientist in the disciplines of bloodstain pattern analysis and latent print examination. He began his career at the Northern Illinois Police Crime Laboratory in 1997 where he served as a latent print examiner and crime scene coordinator. Since that time, Jeff has been an instructor for the FBI, National Forensic Academy, IAI, as well as independently in the field of bloodstain pattern analysis. He currently served on the IAI Bloodstain Pattern Analysis Certification Board and is a charter member of the Scientific Working Group on Bloodstain Pattern Analysis (SWGSTAIN).

Gwinnett, Dr. Claire - a senior lecturer and researcher in forensic science; specifically trace evidence and forensic database production, at Staffordshire University. She has carried out consultancy work with forensic practitioners in the development of a range of forensic databases including textile fibres, animal hair and bare footprints and has developed novel methods for generating forensic databases and assessing the quality of data collected. Dr Gwinnett has advised in the development of a new system for competency testing with the Forensic Science Society in the UK and is currently working with The Netherlands Forensic Institute in the testing of a new method, developed and patented at Staffordshire University, which will enhance forensic fibres work. Dr Gwinnett has also been a developer for the generation of forensic science education and training for the University of Mauritius and is currently the external examiner for the forensic science programme at the University of Technology in Jamaica. Dr Gwinnett has presented her research at national and international conferences for over 8 years and is currently contributing to the first UK forensic education textbook.

H

Hall, Carey - is a Forensic scientist working for the Minnesota Bureau of Criminal Apprehension. Carey has worked in latent print comparison for 5 years and is also an I.A.I. Certified Latent Print Examiner. She recently obtained her Master's degree in Legal Studies from Sandra Day O'Connor College of Law, at Arizona State University.

Hall, Molly M. – is a Latent Print Examiner for the United States Army Criminal Investigation Laboratory. She has approximately nine years of experience in the science of latent prints, to include footwear and tire impression evidence. Molly received her Bachelor of Science degree in Biomedical Science from Texas A&M University and holds IAI certifications in both latent print and footwear examination. Molly has been teaching classes in latent print development techniques for more than six years and has taught at numerous schools and Department of Defense agencies around the country. She is a new member of the Forensic Laboratory Analysis Committee.

Hamby, James - is the laboratory director (and firearms examiner) for the International Forensic Laboratory & Training Centre in Indianapolis, IN. He has more than 42 years as a firearm and toolmark examiner and has been actively involved in the Association of Firearm and Toolmark Examiners (AFTE) as well as being a life member of the International Association for Identification (IAI).

BIOGRAPHIES

Hammer, Lesley - is a Certified Footwear Examiner and a Certified Senior Crime Scene Analyst with the IAI, as well as a Certified Diplomate with the American Board of Criminalists. Ms. Hammer served the State of Alaska Crime Laboratory as a Forensic Scientist for 15 years conducting casework in, then supervising, the areas of crime scenes, footwear and tire examination and latent prints. She is currently a private footwear and tire track examiner. She holds a BA in Environmental Science and a MS in Forensics from the University of Strathclyde in Glasgow, Scotland. She is the recent past Chair of the Scientific Working Group on Shoe and Tire Tread Evidence (SWGTREAD) and has published footwear evidence articles.

Haught, Haria - began her law enforcement career with the Pinellas County Sheriff's Office in Florida. She is currently the Manager/Latent Print Examiner over the Biometric Identification Unit and serves as the Administrator of the Automated Fingerprint Identification System (AFIS) for the Hernando County Sheriff's Office in Florida. Ms. Haught has a BA in Criminal Justice with a concentration in Forensic Science from Saint Leo University, Florida. She is an IAI Certified Latent Print Examiner and is currently the President of the Florida Division of the IAI.

Hess, Eva - is a Tenprint Examiner for King County Sheriff's Office, AFIS Tenprint Unit. Eva has seven years of experience as a Tenprint Examiner and has taught several Tenprint Certification Preparation Courses, since becoming certified in 2010. Eva is currently serving on the Tenprint Identification Certification Board.

Hicklin, Austin - is a Fellow at Noblis, and has been involved in a broad range of biometrics/forensics projects for various U.S. Government agencies since 1995. He has been a principal or key investigator for a variety of studies, including evaluations of the accuracy of latent examiner conclusions, latent quality and quantity metrics, AFIS accuracy, biometric fusion, and slap fingerprint segmentation. He also designed and was the initial developer for the Universal Latent Workstation for the FBI. He is a member of SWGFAST. Mr. Hicklin has a MS in Computer Science from Virginia Tech, and a BA from the University of Virginia.

Hilderbrand, Dwane S. - subsequent to Dwane's studies in Police and Forensic Science, he earned a Bachelors Degree in Management from the University of Phoenix followed by a Master's Degree in Education from Northern Arizona University with and honors and distinction. He is one of the very few forensic professionals in the world who has earned professional certifications from the International Association for Identification as a "Certified Latent Print Examiner", "Certified Senior Crime Scene Analyst" and "Certified Footwear Examiner". Dwane has done extensive research on the topic of footwear and tire track evidence and has developed a methodology of teaching criminal justice professionals from all aspects of law enforcement on how to properly and effectively document, collect, preserve and compare track evidence. Dwane also has written and published two books entitled, "Footwear, The Missed Evidence-A field guide to the collection and preservation of footwear evidence" and various articles. Dwane is also a Distinguish member with the I.A.I. He understands the needs of crime scene investigators and examiners, and is able to assist them in reaching a common goal. He is able to supply the student with the necessary information in such a way that it is not only understandable but also enjoyable. Dwane was also selected, for two years, as the main instructor for the Footwear and Tire Track training program offered through the National Forensic Science Technology Center in Largo, Florida.

Hiller, Walter - is an employee of the SPEX Forensics Division of Horiba International Incorporated located in Edison, New Jersey since 2006. During this time, he has worked with and trained many Law Enforcement Departments, at all levels of government, in the use of Forensic Light Sources, RUVIS and Digital Image Processing/ Enhancement. Walter has held lectures on the subjects of Forensic Light Sources and RUVIS at both regional IAI meetings and the International conference. Walter has acquired an extensive sales and public speaking background throughout his career and is a graduate from Montclair State University.

Hollowich, Mike - joined 3M Cogent in 2001 and currently serves as Executive Vice President of Operations. Previously, he spent thirty-two years at TRW, where he served as Program Director for the UK National Automated Fingerprint Identification System (NAFIS) and also managed the NASA Spacelab Payload Integration Project. Mr. Hollowich has extensive experience in business development, program management, and system integration for large-scale information management systems.

Homer, Cindy - has been a forensic scientist, specializing in impression and pattern evidence, for the Maine State Police Crime Laboratory for over 11 years. She has a B.S. in chemistry and a M.S. in forensic science. She holds professional certification as a Fellow in General Criminalistics with the American Board of Criminalistics and is an IAI Certified Latent Print Examiner, a Certified Footwear Examiner and Certified Crime Scene Analyst. Cindy is an active member of the Scientific Working Group on Shoe Print and Tire Tread Evidence (SWGTREAD), an active member of the IAI, the New England Division of the IAI and the Canadian Identification Society. Cindy also teaches forensic science at the University of Maine's Augusta campus.

Horton, Robert - is the Director of Marketing & Communications for MorphoTrak. Robert is the company's representative on the AFIS & Biometric Identification System Committee at the International Association for Identification (IAI), and also was a member of the NIST working group that created the NIST Mobile ID Best Practices standards, and the NIJ/NIST AFIS Interoperability Working Group. Robert has been with MorphoTrak since July 2004. Prior to joining, Robert held senior management positions, responsible for product management at Western Digital, Phoenix Technologies, and Pacific Digital. Robert has Bachelor of Science degrees in both Biomedical Engineering and Electrical Engineering from Duke University, and a Masters in Business Administration (MBA) from the University of Redlands.

Howe, Jason - is a latent print examiner with the Roxboro Police Department. He has more than 12 years of experience in law enforcement and forensic investigations. Howe also teaches courses in latent evidence and fingerprint comparison at Piedmont Community College in North Carolina for the past four years. He is obtained his Masters of Science degree from Central Michigan University, and he is pursuing his Juris Doctor degree at North Carolina Central University School of Law. Howe is certified by the IAI as a Certified Latent Print Examiner.

Hull, Cindy – is the latent supervisor of the Contra Costa County Sheriff's office. She has more than 18 years of experience in friction ridge analysis. Cindy is currently the coordinator for the Northern California Forensic Study Group, the 2nd Vice President for the California State Division IAI, and is certified by the IAI as a Latent Print Examiner.

Huber, Richard - is the Director of Software Engineering and Lead Architect for the MorphoTrust USA ABIS SearchEngine and ABIS Foundation SDK. Richard was one of the inventors of the ABIS platform, in use by the US Department of Defense, Department of State, and numerous other national and state agencies. Richard has been innovating in the field of Distributed Biometric Systems for 12 years, spent 16 years in Computer Science, and holds a Bachelor of Science in Mathematics from Lafayette College.

Hutchens, Alison - is a supervisor for the Durham Police Department in Durham, North Carolina. She has more than 14 years of experience in forensic photography and crime scene processing. She has been training and teaching classes in photography, and crime scene processing and management for over 10 years. Alison has been a Certified Crime Scene Analyst since 2004.

J

James, Charles - spent the last three years introducing a technology framework to manage digital evidence from the crime scene to court. Charles has over 25 years of experience creating digital imaging software products, and was instrumental in supporting FujiFilm to move the photo-finishing industry from analogue film to digital processing for companies such as Wal-Mart and Walgreens.

Johnson, David - is as Forensic Scientist II in the Latent Print Detail working for the Las Vegas Metropolitan Police Department since 2007. David earned a Bachelor of Science degree in Biology from the University of California, Riverside in 2003 and recently achieved certification as a Latent Print Examiner through the IAI in 2009. David has given several lectures and workshops in latent prints at local and national IAI conferences as well as teaching the Ridgeology Science Workshop to the South African Police Force.

Johnson, Jan – is a retired Forensic Specialist from the State of Florida with over forty five years in law enforcement. She began her career with the Federal Bureau of Investigation in Washington, D.C. for ten years which set in motion her journey as a Senior Crime Laboratory Analyst for the Florida Department of Law Enforcement. She spent the last three years of her State of Florida Career employed by the Escambia County Sheriff's Office as the supervisor of the Crime Scene and Latent Print Unit as well as in charge of the new laboratory in which she designed. She is past President and past Chairperson of the Board of Directors for the International Association of Identification. Jan is also involved with the Florida Division of the IAI, is past President and past Chairperson of the Board of Directors. She is currently IAI certified as a Senior Crime Scene Analyst and served as one of the original members on the Crime Scene Certification Board. She also has served on numerous committees with both the IAI and the FDIAI. Jan has taught numerous courses in the areas of Crime Scene related topics, Forensic Reconstruction, and Bloodstain Pattern Analysis in the United States and abroad to include South Africa, Bermuda, Costa Rica and Brazil. Jan is the President and owner of Forensic Pieces Incorporated, a forensic training and consultant business, located in Pensacola, Florida.

Johnson, L. Thomas - an Adjunct Professor, Marquette University, Milwaukee, Wisconsin, has over forty years' experience in forensic science as a retired associate medical examiner for Milwaukee County. He is a retired forensic consultant to the Wisconsin Department of Justice, crime laboratories, and for twenty-six years, a faculty member of the prestigious Division of Criminal Investigation, Death Investigation School He is certified by the IAI as a Senior Crime Scene Analyst, and certified as a law enforcement instructor by the Illinois Bureau of Law Enforcement Standards and Training. Tom is a member of the JFI editorial review board and the Science and Practice Committee. He is a past President of the IAI Wisconsin Division and a Life Active member. Forensicdoc@wi.rr.com e-publications@marquette.edu

K

Kagan, Bryan B - is a board certified podiatrist in private practice. He is a podiatric consultant at the Esplanade Senior Residence in White Plains, NY and at the Willow Towers Senior Residence in New Rochelle, NY. He is on staff at the White Plains Hospital and is a member of the American Podiatric Medical Association. He is also a member of the American Society of Forensic Podiatry and the International Association for Identification. He has lectured at the 39th Annual Pedorthic Symposium, has published in Biomechanics Magazine and has been featured in the Podiatry Management Magazine. His article, Hand/Foot Dominance and Foot Morphology will be published in 2013 in the Journal of Forensic Identification.

Kelly, Haydn - created a world first in presenting Forensic Gait Analysis evidence at The Old Bailey Central Court in 2000 as reported nationally and internationally in the media on 13/07/2000 & since recognized in Guinness world records (2009). Has since provided expert evidence on Forensic Gait Analysis in many areas and continues working with extending the uses of Gait recognition including the application of state of the art IT processing capabilities. www.gaitforensics.com Elected member of the board of the faculty of podiatric surgery (UK); certificated in expert witness accreditation from Cardiff University Law School; examiner for the MSc Forensic Medical Sciences at University of London and the Diploma in Forensic Human Identification awarded by the faculty of forensic & legal medicine, Royal College of Physicians. Founder, Forensic Podiatry Special Interest Group (UK) and chaired to 2012; clinical adviser to the parliamentary healthcare ombudsman.

Klug, David - is Director of Federal Business Development for MorphoTrak, Inc. David has 25 years of experience in forensic and biometric technology, having earned his Bachelor of Science in Criminalistics at the University of Illinois at Chicago and practiced as a forensic scientist at the Northern Illinois Police Crime Laboratory. He performed a national study of AFIS in the United States sponsored by the National Institute of Justice in the late 1980s, then earned his Master of Science in Criminalistics from the University of Illinois at Chicago College of Pharmacy. David has presented to the American Academy of Forensic Sciences, Forensic Science Society (UK), INTERPOL, International Association of Identification and other organizations.

Knaap (DM), Wade - is a Forensic Identification Specialist with the Toronto Police Service and the training coordinator within the Forensic Identification Services unit. In addition, Wade is an instructor at The University of Toronto Mississauga, teaching forensic identification courses in the Forensic Sciences Program. He is the serving President of The Canadian Identification Society and the Chair of the Ontario Police College Forensic Advisory Board. Wade has been published numerous times in the Journal of Forensic Identification regarding forensic identification concepts, and was a contributing author in the text Crime and Measurement: Methods in Forensic Investigation. He was the 2002-2003 recipient of the "Al Waxman Award" for Excellence in Forensic Identification and was honored as a Distinguished Member of the IAI in 2010.

Krishan, Kewal - is a forensic anthropologist and serves as Senior Assistant Professor at Panjab University, Chandigarh, India. His areas of interest include Forensic podiatry, Forensic anthropology, forensic osteology, stature estimation, sex determination etc. He is on the Editorial Board of more than 25 international journals of repute. His articles are published in the reputed journals of forensic and medical sciences like Forensic Science International, American Journal of Forensic Medicine and Pathology, American journal of Human Biology, Journal of Forensic and Legal Medicine, Journal of Forensic Sciences, Legal Medicine (Tokyo), Medical Hypotheses, Bioscience Hypotheses, Journal of Forensic Odonto-Stomatology, Journal of Renal Nutrition, International Journal of Legal Medicine etc. He is instrumental in reviewing a number of articles for 27 reputed international journals. He has recently been awarded Elsevier Top Cited Award for one of his important research in Journal of Forensic and Legal Medicine. He has been invited to write two articles for The Encyclopedia of Forensic Sciences 2nd Edition, Elsevier Science to be published in early 2013.

L

Langenburg, Glenn - is a certified latent print examiner at the Minnesota Bureau of Criminal Apprehension and also manages a consulting business (Elite Forensic Services, LLC). He has experience with crime scenes and bloodstain pattern evidence; he is certified as a general criminalist by the American Board of Criminalistics. Glenn has a Ph.D. in Forensic Science from the University of Lausanne in Switzerland. His thesis, "A Critical Analysis and Study of the ACE-V Process", focuses on decision-making and the application of ACE-V by fingerprint experts. Glenn has lectured and hosted workshops nationally and internationally at forensic science conferences in the United States, Canada, and Europe on topics including Daubert issues, research, probabilistic approach, error rates, and fingerprint methodology. He has published numerous research articles in peer reviewed journals. Finally, Glenn has the privilege of serving the fingerprint community as a member of SWGFAST (Scientific Working Group for Friction Ridge Analysis, Study, and Technology).

Laskowski, Gregory E. - is a retired Supervising Criminalist with the Kern County District Attorney Forensic Science Division in Bakersfield, California where he supervised the Major Crimes Unit. He has over thirty years of experience as a forensic scientist with both the Kern County Sheriff's Department and the Kern County District Attorney's Office. His university degrees include a BS degree in Biochemistry from the University of Southern California and a MPA degree from California State University Bakersfield. Currently, he is an Adjunct Professor of Forensic Science at California State University Bakersfield in addition to Oklahoma State University. He is the president of Criminalistics Services International, LLC a forensic science education and consulting firm. In addition, Gregory has lectured on forensic science techniques and case histories in the former Soviet Union, the FBI Academy in Quantico Virginia, and for various professional societies and associations. He has published papers in Journal of Forensic Sciences, The Journal of Identification, and Association of Firearm and Tool Mark Examiners Journal. His memberships in professional associations include: Fellow of the Criminalistics section of the American Academy of Forensic Sciences; Distinguished Member of the Association of Firearms and Toolmark Examiners; Member of the International Association for Identification, where he serves on the Standing Committee Chairman for Forensic Laboratory Analysis as well as a member the Firearms and Toolmarks subcommittee; Member of the California Association of Criminalists; and Member of the California Association Of Crime Lab Directors, where he serves on the Sexual Assault Evidence Kit Standardization Committee. He is also a certified inspector for the Forensic Science Education Program Evaluation Commission FEPAC. Gregory also consults for the for following television shows CSI: and CSI: Miami, Law and Order Numbers, Killer Instinct, Vanished, Bones ,Rizzoli and Isles and The Mob Doctor. He is also the subject of three Court TV's television series Forensic Files episodes.

Latham, Cory - began his career with the Kansas Bureau of Investigation in 1997, working as a Forensic Scientist in the Biology/DNA Section. In 2001 he transferred to the position of Special Agent and was assigned to the Field Division. In 2010, Agent Latham was selected as Team Leader for the KBI's Crime Scene Response Team. Agent Latham holds a B.S. in Biology from Kansas State University. He is a graduate of the 26th session of the National Forensic Academy and holds two certifications through the International Association for Identification (IAI): Certified Senior Crime Scene Analyst and Certified Bloodstain Pattern Analyst. He currently serves as Treasurer for the Association for Crime Scene Reconstruction (ACSR), as a Board Member for the Kansas Division of the IAI (KDIAI) and Chairman of the Crime Scene Certification committee for the KDIAI.

Latham, Holly – is a forensic scientist with the Kansas Bureau of Investigation. She is a latent print examiner and is active in crime scene investigation and bloodstain pattern analysis. Holly is a Certified Latent Print Examiner and a Certified Bloodstain Pattern Analyst with the IAI. Holly has provided training and instructed in both the field of latent fingerprints and bloodstain pattern analysis. Holly received her Bachelor of Science Degree in Microbiology from Kansas State University and her Master's Degree in Criminal Justice from Fort Hays State University. She has been the Secretary/Treasurer of the Kansas Division of the IAI and is currently Chairman of the board. Holly is also the chair of the Bloodstain Pattern Analysis Subcommittee with the IAI.

Lavach, Beth - is the founder and President of E.L.S. and Associates. She has a lengthy and wide range of experience in the areas of government operations, legislative and regulatory development and implementation, and public-private sector initiatives. Ms. Lavach is a graduate of Western Connecticut State University with a B. A. in Political Science and received her Master of Arts degree in International Studies from the Claremont Graduate School. She is a frequent speaker before national associations, providing insight on trends in government policy and funding for defense, homeland security, energy, biometrics and biotechnology issues.

Leben, Deborah A. - began her career at the United States Secret Service Forensic Services Division in Washington D.C. as a Fingerprint Specialist and has been active within the discipline for over 20 years. She is current the Laboratory Director in the Forensic Services Division. Ms. Leben has served on the Board of Directors, in Vice Presidential positions (1-3) and as President in the Chesapeake Bay Division of the International Association and followed the same succession within the International Association for Identification. She is currently the President of the IAI. Ms. Leben graduated with a Master in Forensic Science from the George Washington University and a Master in Technology Management from the George Mason University.

Lee, Dr. Henry C. - is one of the world's foremost forensic scientists. He has been a prominent player in many of the most challenging cases of the last 50 years and has worked with law enforcement agencies in helping to solve more than 8000 cases. Dr. Lee is the Founder of the Henry Lee Forensic Science Institute and a Distinguished Professor of the University of New Haven. He was the Chief Criminalist and Director or the Connecticut Forensic Science Laboratory from 1978 to 2000, and Commissioner of the Department of Public Safety for Connecticut from 1998 to 2000.

Libert, John – is a physical scientist in the Image Group of the Information Technology Laboratory within the National Institute of Standards and Technology. He has worked at NIST since 1997, with a recent focus on the analysis of the underlying signal characteristics of friction-ridge images and on the development of tools to measure these characteristics.

M

Mallot, Ann - is a forensic photographer and video analyst with the Kansas City Police Department Crime Lab in Kansas City, MO. She currently serves as Chair of the Forensic Photography Certification Board and is a member of SWG-IT. She has a degree in photography from Central Missouri State University and has previously presented at IAI Education Conferences and at Missouri IAI conferences.

BIOGRAPHIES

Mancusi, Stephen - was the senior artist and first grade detective for the New York City Police Department for 26+ years. He is the author of the book "The Police Composite Sketch". His expertise encompasses all the forensic art disciplines. He has conducted composite sketching sessions with countless victims/witnesses for all types of crimes resulting in the identification of many criminal suspects. He is the chair of the Forensic Art Certification Board. A professional illustrator, Stephen is skilled in digital graphics and a variety of traditional artistic media for a wide range of subject matter. His work has been displayed in the Metropolitan Museum of Art. He has trained many artists throughout the world. You can view his work at www.forartist.com.

Martin, Kenneth F. - currently holds the rank of Detective Lieutenant with the Massachusetts State Police and is the Commanding Officer of the Crime Scene Services Section. He has a B.A. in Biology; a B.S. in Criminal Justice; a M.S. in Criminal Justice. He is a past president of the International Association for Identification and presently serves on the IAI's Board of Directors and as the IAI's representative to the Consortium of Forensic Sciences. He is a Certified Latent Print Examiner, Certified Bloodstain Pattern Examiner, Certified Footwear Examiner, and a Certified Senior Crime Scene Analyst.

Mason, Patricia A. - has dedicated 21 years of government service to the Federal Bureau of Investigation, Criminal Justice Service Division (FBI/CJIS). She is a Certified Criminal History Record Instructor assigned to the Training and Records Testimony Team (TRTT) within the Biometric Services Section (BSS). Patricia has worked in various criminal history functions and has also been a fingerprint examiner for 8 years of her career. Mrs. Mason holds a Bachelor of Science Degree in Management and Business Administration. Patricia has trained FBI employees as well as agencies at the local, state, and federal levels in criminal history record information and provided fingerprint instruction.

Maynard, Mona Lisa R. - began her career in 1989 at Louisiana State Police Headquarters as a fingerprint technician. After 4 ½ years, she accepted a position with the Ohio Bureau of Criminal Identification and Investigation (BCI) in London, Ohio. At Ohio BCI, she has served as a Fingerprint Examiner, Senior Fingerprint Examiner and an Identification Supervisor. She currently conducts tenprint examinations as well as providing training in tenprint classification and advance comparison for the law enforcement and forensic community. Ms. Maynard is a member of the International Association for Identification (IAI) where she has served in numerous positions including Chairperson of the Tenprint Certification Board, Chairperson of the Tenprint Identification Subcommittee, Resolution Committee Secretary and as a Member of the Board of Directors. She is also past president of the Ohio Identification Officers Association. She is an IAI certified Tenprint Examiner and currently serves as Co-Chair of the Tenprint Identification Sub-Committee.

McDonald, Edward "Ted" - is a senior instructor at the Federal Law Enforcement Training Center, Department of Homeland Security, Glynco, Georgia where he is responsible for basic and advanced instruction in the topical areas of crime scene investigation, fingerprints and is the program coordinator for the Advanced Forensic Techniques in Crime Scene Investigation training programs. Prior to his employment with DHS, Ted served 17 years with the Glynn County, Georgia, Police Department with the majority of his service being assigned to the criminal investigations division where he specialized as a crime scene technician and latent print examiner. Ted left the department as a lieutenant supervising the CID and held intermediate peace officer, identification technician and instructor certifications through the Georgia P.O.S.T. Ted received a B.S. in Criminal Justice from Armstrong Atlantic State University and is a graduate of the 209th session of the FBI National Academy.

McDonnell, Owen, MFSA - serves as Lieutenant / supervisor of the Caddo Sheriff's Office Crime Scene Investigations Division in Shreveport, LA and has over twenty-five (25) years in the field of Crime Scene Investigations and Latent Print Examinations. He holds an A.S. in Law Enforcement Technology from Bossier Parish Community College, a B.S. in Business Administration, and a Master in Forensic Science Administration from Oklahoma State University and is a member of the LA Division, MS Division and FL Divisions of IAI. McDonnell has provided training in basic crime scene, advanced crime scene and fingerprint development and comparison techniques to numerous law enforcement agencies in Louisiana and other states as well as conducting workshops at IAI and Division Conferences. His expertise in crime scene investigation has resulted in him being invited to lecture at several colleges and universities in his state. He is the past president of the Louisiana Division of the International Association for Identification and currently serves as their Regional Representative and as Chairman of their Latent Print Certification Committee. He has obtained I.A.I. certification as a Senior Crime Scene Analyst, Ten Print Fingerprint Examiner and Latent Print Examiner and currently is a member of the Crime Scene Sub-committee of the International Association for Identification.

McEvoy, Richard T. - Dick, as he prefers to be called, was formerly with the Georgia Bureau of Investigation before joining Kodak as the head of their forensic training programs. He left Kodak in 1993 to form the company "Forensic Imaging, Inc.". He provides imaging training and consulting nationally and internationally at all levels of governments. Dick is an I.A.I. Certified Forensic Photographer, serves on the I.A.I. forensic imaging subcommittee and is a member of various other forensic organizations. More information on him and his company is available at the web-site: http://www.forensicimaging.com

Meagher, Stephen - is currently a member of the IAI Board of Directors. He is the sole proprietor of Dactyl ID, LLC, as a consultant on latent print matters. He is retired from the FBI Laboratory.

Medeiros, Maryann Pacholski - a certified safety professional, has been with OSHA for twenty years and has been the compliance assistance specialist for OSHA's Providence Area Office since June, 2000. Her position is designed to assist and educate the public about OSHA issues. Ms. Medeiros serves in the OSHA Region I VPP Program as an industrial hygienist and team leader. She has a B.S. in Biology from Providence College, Rhode Island and a M.P.H. in Environmental Health from Boston University School of Public Health, Boston, Massachusetts.

Meder, Michelle - is the Supervisory Management and Program Analyst assigned to the Federal Bureau of Investigation (FBI), Criminal Justice Information Services Division's Latent Investigative Services Program Office. Michelle manages latent fingerprint and palmprint services support by the current Integrated Automated Fingerprint Identification System. In addition, Michelle is also instrumental in the development of new latent services to be offered as part of the FBI's Next Generation Identification System.

Megna, Nick - began his career with the FBI in June of 1996. Mr. Megna has served as a functional expert during the implementation of the Integrated Automated Fingerprint Identification System (IAFIS) and has assisted several state and federal agencies in their transition to IAFIS services. He is currently assigned to the FBI's Next Generation Identification Program (NGI) and serves as the Services Evaluation and Analysis Unit Chief, responsible for pilot/ prototype development and data services as well as standards, technology, and collaboration support.

Misslin, Anthony - has been integrating mobile identification systems allowing law enforcement to identify subjects in the field since 1997. After 20 years of developing and managing advanced technology products for the US military, Tony joined what is now the MorphoTrak team to lead development of mobile systems. He led the team which deployed the first production wireless mobile identification systems in California and Minnesota. Since then, he has been instrumental in implementing mobile identification systems for local, regional, state, and Federal deployments. Since joining MorphoTrak, Mr. Misslin has assumed responsibility of Product Manager for Mobile Identification. Mr. Misslin was a contributing author of the NIST Mobile Identification Device Best Practices Recommendation.

Moran, Robert - was a key member of the team that developed the first digital RUVIS in 1987 and the LatentMaster Image Enhancement Software in 1987. Since then, he has traveled extensively around the world, learning about the techniques used by different countries and laboratories for processing latent fingerprints while demonstrating both RUVIS and digital image enhancement processes. As a recognized expert in these areas, he was the only American invited to participate in the second annual meeting of the European Fingerprint Working Group in Krakow, Poland. On numerous occasions, he has been called upon by police departments in Europe and the US to lift and process latent fingerprints for important criminal cases.

Moody, Paul - is the Forensic Imaging Specialist for Palm Beach County Sheriff's Office. After retiring from 25 years of service with the Illinois State Police, he relocated to Florida and has filled the position of Forensic Imaging Specialist for the last 5 years. His experience in the area of Forensic Art spans the last 12 years. Paul is certified by the IAI as a Forensic Artist, is a member of the Forensic Art Membership Sub-Committee, is the Forensic Art Chairperson for the Florida Division of the IAI, and is a member of the American Academy of Forensic Sciences.

Moore, Eric - has been employed with the Kansas Bureau of Investigation since 1999. His primary duties at the KBI are as a Forensic Scientist in the latent print section. Eric also is the Assistant Team Leader for the KBI's Crime Scene Response Team. Mr. Moore has a B.S. in Forensic Science from the University of Central Oklahoma. He is currently IAI certified in three areas; Certified Latent Print Examiner since 2003, Certified Crime Scene Analyst since 2006 and Certified Bloodstain Pattern Analyst since 2010. He is also a member of the Association for Crime Scene Reconstruction and the Kansas Division of the IAI.

Moore, Lorene - is the Latent Print Supervisor for King County Sheriff's Office in Seattle Washington, a position she has held since 2008. She has been employed on fingerprint duties since 1994. She has instructed on a wide range of forensic subjects, including recovery of latent fingerprints from skin, identification comparison techniques, fingerprint detection techniques and health & safety – personal protection. Lorene has served as a member of the IAI Safety Committee, treasurer of the Pacific Northwest Division IAI and member of the Latent Print Certification Committee. She is a member of the Fingerprint Society and the Canadian Identification Society.

Murry, Natalie - is Vice President and Lead Artist at IDFA. She was a police officer for ten years with the city of Kent in Washington State. Her forensic art experience includes composite facial images, postmortem drawings, age progressions, and skull-to-face reconstructions for police agencies in the Seattle area and the King County Medical Examiner's Office. Her training includes 320 hours of forensic art as well as a certification in scientific illustration and many hours of fine art training. She regularly gives presentations on forensic art to college law enforcement classes and teaches composite drawing at Scottsdale Artist's School.

N

Nash, Steve - possesses 33 years of experience in law enforcement and crime scene investigation, and significant expertise with biometrics and AFIS solutions. He served as project manager for the implementation of 3M Cogent's integrated AFIS, automated archive, LiveScan, and mobile identification solution for the Marin County Sheriff's Department, California, and was responsible for developing the system and managing the inked card conversion of both finger and palm print records. He also served as the CAL ID Ran Board manager. Mr. Nash has served as an instructor for local, state, and federal agencies in the study of crime scenes and the development and comparison of latent fingerprints. He is the past President of the International Association for Identification and the California State Division of the International Association for Identification. He has also co-authored two published guides on crime scene investigation. Currently, as Manager of Business Development and Customer Relations, he interacts regularly with 3M Cogent's biometric system customers at all levels of government to ensure premier quality of service delivery.

Neate, Esther - has worked as a professional photographer for over 20 years, Eighteen-years ago she commenced employment within a UK police force where she specialized in the photography and recovery of latent fingerprint impressions, footwear identification, crime scene investigation and fingerprint recovery with visual (forensic light sources) and chemical development techniques. She has been working and training internationally in the field of digital imaging since 1995 and has been featured on national television. She has also lectured and trained at numerous Forensic institutes, Police organizations, Universities and Forensic conferences all around the world.

Neumann, Cedric - was awarded a PhD in Forensic Science from the University of Lausanne, Switzerland, for his work on the multivariate analysis and interpretation of ink evidence. This work was implemented by the Department of Homeland Security at the United States Secret Service and inaugurated in 2009. In 2004, Cedric joined the Forensic Science Service (FSS) in the United Kingdom. As head of the R&D Statistics and Interpretation Research Group, he contributed to the development of the first validated and commercially available fingerprint statistical model. Cedric is currently an Assistant Professor of Statistics in the Forensic Science Program at The Pennsylvania State University. Cedric's main area of research focuses on the statistical interpretation of forensic evidence, more specifically fingerprint, shoeprint and traces. Cedric currently serves on the Scientific Working Group for Friction Ridge Analysis, Study and Technology (SWGFAST) and was a member of the Board of Directors of the IAI.

Neuner. John K. - currently serves as an Accreditation Program Manager for the ASCLD/LAB-International accreditation program. He is a graduate of Campbell University (North Carolina) and has been an active participant in the forensic science profession for over thirty-five years. John began his career in the ten-print operations at the Federal Bureau of Investigation (FBI) in Washington, D.C. After a short time at the FBI, he moved to the North Carolina State Bureau of Investigation (SBI), where he served nearly thirty years in the crime laboratory division – including experience in the latent print discipline and crime laboratory management. Since retiring from the North Carolina SBI in 2002, he has managed or helped to manage the ASCLD/LAB-International accreditation program. John has presented numerous assessor training courses, both nationally and internationally, and continues wherever possible to help educate the forensic science community on conformance with internationally accepted quality management practices and accreditation requirements.

Messick, Kirt - has been with the Phoenix Police Department for the last 22 years. He has been doing forensic art since 1995. Mr. Messick is proficient in the areas of composites, 2D-3D reconstruction, postmortems, age progressions and digitally generated forensic art. During his career, he has had the opportunity to work on several high profile cases including The Baseline Killer, The Serial Shooters and Jason Derek Brown, one of FBI's top 10. Mr. Messick has been perfecting the use of 3D digital software in the areas of age progressions and postmortems to better communicate unique identifiers to the public and aiding detectives in their investigations.

Neville, Wesley - has worked as a Visual Information Specialist at the FBI Laboratory since 2006, and is an instructor of the FBI's Forensic Facial Imaging Course. He holds a Bachelor's Degree in Criminal Justice, and is an IAI-Certified Forensic Artist. Prior to his employment with the FBI, Wes was a Lieutenant/Forensic Artist with the Florence County Sheriff's Office the South Carolina.

Nguyen, Tony – is a Crime Scene Investigator and a Latent Print Examiner with the Pomona Police Department in Southern California. He currently serves as a board member on the IAI Forensic Photography & Imaging Certification Board and as a 2nd Vice President for the Southern California Association of Fingerprint Officers (SCAFO). Tony is an IAI Certified Crime Scene Investigator and Certfied Forensic Photographer. He has a degree in Commercial Photography from the Art Institute of Seattle in 1989. He has been a professional photographer since 1990 and has had photography exhibitions throughout California, Washington, Vancouver (BC) and Victoria (BC).

Norman, John - has over 34 years of continuous service in forensic identification and has presented expert testimony over 150 times in the following disciplines, digital image enhancement, fingerprints, palm prints, barefoot, physical match, footwear and tire track evidence, in Great Britain, Canada and the United States. He started his career at New Scotland Yard, London England and transferred to the Greater Manchester Police and then to the Ontario Provincial Police, Canada in 1989 where he is employed as a Senior Forensic Analyst. He is a certified footwear examiner with the I.A.I. and Canadian Identification Society C.I.S. and is a past chair of the C.I.S. footwear certification board. He is a member of the I.A.I. footwear and tire track sub committee. He is an instructor at the Ontario Police College.

O

Olson, Angela - "Angie" works as a Crime Scene Investigator and Latent Print Examiner for the Douglas County Sheriff's Office in Omaha, NE. She started her career as a Property and Evidence technician for the Bellevue Police Department in Bellevue, NE in 2003. Angie then moved over to the Douglas County Sheriff's Office in 2007 as a Crime Scene Investigator. She has approximately 8 years experience in processing evidence for latent prints and has been conducting latent print comparisons for the last two years of her career. Along with her latent work, Angie continues to respond to various types of crime scenes. She has her Master's of Forensic Science from Nebraska Wesleyan University in Lincoln, NE. In addition to being a certified crime scene investigator, Angie is also working towards her certification as a latent print examiner.

Orandi, Shahram – is a supervisory computer scientist in the Image Group of the Information Technology Laboratory within the National Institute of Standards and Technology. He has worked at NIST since 2005; his team focuses on the nature of large-scale automated biometric identification systems and the problems associated with their use.

Osborn, Scott – is a Fingerprint Expert with the Forensic and Data Centres, Australian Federal Police. Scott has worked in the fingerprint discipline since 1998 conducting duties in all areas of fingerprint examination including Latent Print Analysis, Crime Scene Examination, Tenprint Analysis and Chemical Detection and Enhancement with the Fingerprint Laboratory. Having previously worked with the NSW Police Force as the Fingerprint Operations Training Coordinator, Scott developed and implemented numerous fingerprint training programs within this agency as well as being the program coordinator for several national fingerprint training programs that have been delivered throughout Australia. Scott is an accredited fingerprint expert with the Australasian Forensic Field Sciences Accreditation Board (AFFSAB), and sits as an external assessor for this board assessing new candidates requiring accreditation in the field of fingerprints.

P

Pacecho, Igor - received his bachelors of science degree in Biology in 1998 from Texas Tech University. He moved to Miami Florida in 2001 to attend Florida International University's Forensic Science Certificate Program. While attending FIU, Igor was hired in 2002 at the Miami-Dade Police Department Crime Scene Investigations Bureau Fingerprint Identification Section as a Fingerprint Analyst I in their MasterFile Unit. He finished his certificate program in Forensic Science at FIU in 2003 having taken post graduate classes in analytical chemistry, molecular biology, forensic chemistry, and forensic biology. He is now been employed as a fingerprint analyst for two years (at the end of 2004). Recently, he has been transferred laterally to the AFIS unit within the CSI Bureau's Fingerprint ID Section as a Fingerprint Analyst I AFIS administrator. In addition, he also has one year experience as editor of the South Florida Forensic Association newsletter.

Perkins, Michael S. - is a Crime Scene Analyst Supervisor with the Las Vegas Metropolitan Police Department in Nevada. He has twenty-five years of experience in crime scene investigation, and has taught classes in bloodstain documentation, FW/TT and digital crime scene photography. He has been on the LVMPD Search & Rescue Diving Team for several years. He is currently on the IAI's JFI editorial review board, as well as participating on state certification boards. He is certified by the IAI as a Senior Crime Scene Analyst, Latent Print Examiner, Bloodstain Pattern Analyst, Forensic Photographer, and Crime Scene Reconstructionist. Mike has been associated with SWGIT since 2012. He is on the Bloodstain Analyst Certification Board and the FW/TT Science and Practice Committee.

Perlmutter, Dawn - Director of Symbol & Ritual Intelligence, is considered one of the leading subject matter experts (SME) in the areas of symbols, unfamiliar customs, ritualistic crimes and religious violence. In her SME capacity, she routinely provides law enforcement investigators, defense and intelligence agencies with specialized information to assist in operations, investigation and analysis. Dawn Perlmutter is an Associate Fellow at the Middle East Forum and an adjunct Professor in the Forensic Department at Philadelphia College of Osteopathic Medicine. She has advised police departments and prosecutors offices on numerous cases of ritual homicide and presented expert witness testimony on ritualistic crimes. She is the author of two books and numerous publications on ritual violence. She holds a Doctor of Philosophy from New York University and a Masters Degree from The American University, Washington, D.C.

Pettler, Dr. Laura – is owner of Carolina Forensics was the Co-Founder and former Director of Prosecutorial District Twenty A of North Carolina's 2006-2010 Crime Scene Reconstruction and Behavioral Analysis Program and a Co-Founder of the 2009 Richmond Community College International Forensic Institute. Dr. Pettler works as a scholar-practitioner in the field and is involved in the development and presentation of undergraduate, graduate, and con-ed courses. Dr. Pettler holds a BS in Psychology, an MS in Criminal Justice, and a PhD in Public Safety; Dissertation: Crime Scene Behaviors of Crime Scene Stagers. Research interests include crime scene staging and crime scene reconstruction. Dr. Pettler is an active member of IAI and FDIAI and serves on the IAI's Bloodstain Pattern Analysis Subcommittee.

Potash, George – is a Patrolman assigned to the crime scene investigations unit of the Columbia Police Department in Columbia, South Carolina. He is a regular presenter for the SC Attorney General's Office VAWA program on topics related to evidence identification, documentation, and collection. He is a member of the Professional Photographers of South Carolina, and provides photographic documentation services to attorneys in civil cases.

Praska, Nicole – graduated from the University of Minnesota-Twin Cities in 2012 with a B.S. in Clinical Laboratory Science. Through an internship with the Minnesota Bureau of Criminal Apprehension in 2011, she began conducting research on latent prints exposed to blood and processed with blood reagents. Her findings on the subject have since been published as a paper, where she is the primary author, in Forensic Science International earlier this year.

Price, Marian M. - 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 to CJIS Division employees. 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.

Priest, Jonathyn - is a thirty-two year veteran of the Denver Police Department in Colorado. He has over twenty-seven years of experience investigating thousands of criminal incidents of violence as a detective, supervisor, and command officer. He is a Court recognized expert in Colorado and California District Courts and U.S. Federal Courts in bloodstain pattern interpretation, crime scene and shooting incident reconstruction, death investigation, and major case management. In addition to criminal testimony, he testifies and consults in civil cases in the area of death investigation and major case management. He has extensive background in the area of death investigation and officer-involved critical incident investigation. Jon developed the Denver Police Department's investigation protocol and training curriculum in the area of death investigation, officer-involved critical incidents, cold case investigations, and interview and interrogation.

Prince, Shannon E. - has been a Physical Scientist/Forensic Examiner with the FBI Laboratory Latent Print Operations Unit in Quantico, Virginia since March 2004. She has a Bachelor of Science in biology from Muskingham University and a Masters of Science degree in Criminal Justice, with a concentration in Criminalistics, from Xavier University. In April 2008, Shannon was named to the Indian Country Evidence Task Force, where she handles all latent print examinations for violent crime investigations in the Indian nations across the United States that are submitted to the FBI Laboratory. Shannon has taught latent print processing techniques, latent print and known print collection and preservation techniques to New Agents at the FBI Academy, basic crime scene techniques to Federal Agents and Tribal Officers, and latent print development techniques to international law enforcement. Shannon has instructed on the recovery of latent prints from human skin and the collection of known prints from deceased individuals to state, federal, and international law enforcement. She is a member of the FBI's Disaster Squad and Hazardous Evidence Analysis Team. She is a member of the IAI, Life Member of the CBD-IAI, and a member of the Native American Law Enforcement Association.

R

Radmer, Thomas W., DDS, M.S. - Assistant Clinical Professor and Program Director in Oral and Maxillofacial Surgery Marquette University, Milwaukee, Wisconsin (Retired) who has over 30 years experience in forensic science as a consultant to the Kenosha County (WI) medical examiner's office, and has served as Chairman of the Kenosha Police and Fire Commission in Kenosha WI. He is a former member of the Wisconsin Preliminary Review Committee for Attorneys. Tom is a member of the JFI editorial review board and a subcommittee member of the Science and Practice Committee. A researcher in applications and methodology for patterned evidence analysis, he is the author, or co-author of multiple peer reviewed publications and a frequent presenter at IAI Educational Conferences. Thomas.radmer@gmail.com e-publications@marquette.edu

Ramotowski, Robert - is currently employed as Chief Research Scientist with the Forensic Services Division of the United States Secret Service. He has worked for the U.S. Secret Service for more than 19 years. His job duties include the coordination of forensic research activities within the laboratory (as well as between other entities, including academia, industry, and other domestic and international law enforcement laboratories), particularly in the areas of latent print visualization, questioned document analysis, instrumental analysis, and ink and paper chemistry. He has published more than two dozen articles on latent print and document chemistry and given more than 50 lectures and workshops in more than a dozen countries. He was awarded Distinguished Member status from the International Association for Identification in 2008. In 2012, he was elected to the position of International Representative of the International Association for Identification.

Ray, Eric - has been employed as a Criminalist with the Arizona Department of Public Safety in the Latent Print Unit since 2007. He earned a BS in Biochemistry and Molecular & Cellular Biology from the University of Arizona in 2000. Eric is a CLPE and a member of the IAI. He is also on the Board of Directors and the Webmaster for the Arizona Identification Council.

Reel, Sarah – is a Consultant Forensic Podiatrist working for Sheffield Teaching Hospitals NHS Foundation Trust in the UK. She is a member of the IAI forensic podiatry sub-committee and is currently involved in footprint identification research as part of her PhD studies, focussing on reliability and validity concepts in forensic practice.

Roberts, Maria Antonia "Toni" - started working for the FBI Laboratory Latent Print Unit in 2003 as a physical scientist/forensic examiner before becoming Research Program Manager. She is a member of Scientific Working Group on Friction Ridge Analysis Study and Technology (SWGFAST), the Research, Development, Testing and Evaluation Interagency Working Group, the Expert Working Group on Human Factors and on the Research and Development Committee for the Chesapeake Bay Division IAI. She received a Bachelor of Science degree in Biology from the University of Maryland Baltimore County, Baltimore, MD and a Master of Science degree in Cellular Biology from Florida State University, Tallahassee, Florida.

Rogers, Dr. Ernest - graduated from Tuskegee University, School of Veterinary Medicine, in May 1991. As a post graduate veterinarian at the University of Illinois, he had the opportunity to teach courses, in animal handling and restraint, to Animal Control and Police Officers for the State of Illinois. In 1994, Dr. Rogers moved to Virginia Tech to start a Doctoral Program in Veterinary Medical Sciences. While at "Tech" he was a behavioral consultant to the Police working Dog Group of Southwest Virginia for over 4 years. His first forensic case happened on a Police "Ride-along "with Roanoke County Police in 1993, where he was recruited as an expert witness for the prosecution. Dr. Rogers was granted a Doctor of Philosophy in 2004 in the area of toxicology and pharmacology. After leaving Virginia Tech, Dr. Rogers then moved to New Jersey where he eventually purchased a veterinary practice and started consulting company. He has been working with various police agencies in New Jersey for over 10 years completing such tasks as projectile recovery, expert witness reports, forensic necropsies, crime scene evaluation, and courtroom expert testimony. Since 2007, Dr. Rogers has been the Consultant Forensic Veterinarian, to the New Jersey SPCA Humane Police. The NJSPCA Humane Police are in charge of enforcing Title 4 statutes related to animal cruelty. The "Animal Cops" are an enforcement agency with police powers of enforcement granted by the Attorney General of NJ. Ernest also works on cases outside of New Jersey. In other states he acts as an expert witness, and reviews the science and medical data presented as prosecution discovery, for defense attorneys. To date Dr. Rogers has been involved in over 40 cases. Ensuring that he can meet the tasks of a Forensic Veterinarian, Dr. Rogers has completed courses in Criminal Investigation, Criminal Law and Criminal Procedure. Dr. Rogers co-hosts a community television program "You and Your Pets", is an editor for the professional magazine, Veterinary Practice

Today, and is consultant to the American Veterinary Medicine Association. He is active in veterinary medicine and forensics. Current consultations include interactions with both prosecutors and defense attorneys, on cases involving crimes against animals, through his investigation company Animal Forensic Investigations LLC. Finally Ernest is an active veterinary practitioner in his general practice Maplewood Animal Hospital LLC.

Ross, Emily - has been employed with the Boston Police Crime Laboratory for over 6 years and is a criminalist performing casework in the trace evidence, impression evidence, general criminalistics and crime scene processing disciplines. In addition to her duties in the Crime Laboratory, Emily is an adjunct instructor in the chemistry department at Suffolk University. She is a Fellow of the ABC in Hairs and Fibers, a certified crime scene investigator by the IAI, and an associate member of AAFS and NEAFS. She has also previously published in the area of chemical enhancement of footwear imprints.

Ruslander, Harold W. "Rus" - is the Chief Investigator for the Palm Beach County, Florida Medical Examiner's Office and an FDLE Certified Law Enforcement Instructor. For 23 years, he served as a Prince George's County, Maryland Police Officer in patrol, special operations, administration, and investigations. Upon retiring, he became a crime scene investigator for the City of Lake Worth and then for the Palm Beach County Sheriff's Office. Mr. Ruslander has designed and taught numerous forensics courses throughout the US and published more than 20 forensic articles. He has been a Presenter for the IAI, FDIAI, The East Coast Armed Robbery Association, The Taylor Group, The Gold Coast Forensic Association, the Florida Chaplains Association, and the Florida Fire Marshals Association.

S

Scozzafava, Jeff - was a New Jersey State Trooper, serving over half of his career in the State Police's Crime Scene Investigation Unit. Jeff retired as a Detective Sergeant in 2007 and was immediately hired by the Somerset County Prosecutor's Office in northwestern New Jersey. The majority of his responsibility is as a Forensic Detective; he is also a Team Leader on the Arson Task Force, a Dive/Rescue Team member, and is a Team Leader on the NJ Division of Criminal Justice's Police Involved Shooting Response Team. He is a certified instructor and has provided crime scene forensic instruction for agencies such as the International Association for Identification, U.S. Department of Justice, John Jay College, the New Jersey State Police, the New Jersey Division of Criminal Justice, the Somerset County Prosecutor's Office and the Northeast Crime Scene Institute. Jeff has been recognized as an expert in NJ Superior Courts and U.S. Federal Court regarding bloodstain pattern analysis, fingerprint comparison and crime scene investigation. He is an executive board member of the IABPA and a member of the IAI.

Seferyn, Season E. - is a Parentage DNA Analyst at Marshall University Forensic Science Center. As a Parentage DNA Analyst, Season conducts complex analysis on criminal relationship cases involving body identification, incest, and other criminal relatedness issues. In addition, she has performed processing and serology reads for over one hundred rape cases. Season also teaches a bloodstain pattern analysis course for the Marshall University Forensic Science Program. Season has been working in the field for four years.

Setola, George - is Director of the SPEX Forensics Division of HJY Inc. of Edison NJ. He has been with the company for 20 years. In 1996, he participated in the creation of the Forensics Division and became Director in 2006. George has taught many departments at all levels of government in the use of forensic light sources and has held lectures on the subject at previous IAI Educational Conferences and at regional IAI meetings.

Scarborough, Steve - retired after 29 years as a Forensic Scientist (LPE) with LVMPD, having previous worked for the FBI for seven years. While with LVMPD he designed an Innovative AFIS System, and brought in digital imaging. He has lectured on AFIS, fingerprints and digital imaging and made presentations at IAI, SCAFO, and AAFS, and Myths and Magic of Forensic Digital Imaging at the CSDIAI. Steve has over 30 technical articles, in various magazines including Forensic Magazine, Law Enforcement Technology, Evidence & Technology, CSDIAI Digest and many in the IAI Journal (Film to Digital Conversion for Law Enforcement, Image Management, Fingerprint Processing with a Digital Brush, Digital Enhancement of Latent Prints, & Forensic Imaging & RAW Files). He is a regular contributor to the CPLEX website and wrote the "Daubert Card." Steve is proud to have been mentioned in the NAS report and was recognized by INTERPOL in Review Papers at the 14th International Forensic Science Symposium in Lyon, France for his contribution to Digital Imaging. Steve is a member of the Public Safety (Police) Writers Assoc. and has published a crime novel, Scrafitto. A story about an early IAI meeting in Long Beach, Ca. appears in an anthology, Felons, Flames and Ambulance Rides.

Schofield, Greg - is a Crime Scene Drafting Technician with the Toronto Police Service. With over 31 years' experience in crime scene mapping, he has been involved in over 1100 homicide investigations. In 2010 Greg led the project to acquire a laser scanning system for processing crime scenes in Toronto and has been actively involved in scene scanning since then. He is a graduate of the University of Toronto; holds a CFEI designation from the National Association of Fire Investigators and has lectured extensively on various aspects of crime scene mapping in the US, Canada and Europe.

Siegel, Sandra - joined the Texas Department of Public Safety in 1987 where she was trained in ten-prints. She started teaching 1997 and was responsible for teaching new employees the technical aspects of pattern interpretation, classification, identification and AFIS operations. In December 2002, she was promoted to a Latent Print Examiner with the Austin Police Department where she is currently employed conducting AFIS searches, bench work in Latent Prints. In 2012, Ms. Siegel was promoted to a supervisor over the latent print section. She teaches as a guest instructor at the Texas DPS Training Academy where she taught Latent Print Processing, but currently teaches Latent Print Comparisons and has taught at conferences held by other organizations. She is a member of the International Association for Identification, the Texas and Chesapeake Divisions of the IAI. With the TDIAI she was chair of the Education Committee and has served on the Resolution and Membership committees and obtained her IAI certification for Latent Prints in 1997. She is also the coordinator for the QUIP section for the JFI.

Sinclair, Rick – is a senior supervisory fingerprint expert with the New South Wales Police Force in Sydney, Australia. He has more than 19 years' experience in the science of fingerprint identification. Rick holds a Diploma of Forensic Investigation (Fingerprint Identification) from the Canberra Institute of Technology, and a Bachelor of Policing degree from Charles Sturt University in Australia. Rick has also been an active member of the IAI since 1994.

Singer, Andrew - is the Senior Product Manager of the Bode Technology Group with responsibilities of managing product lifecycle of products offered by Bode to the law enforcement and crime laboratory markets, including developing new product requirements and translating those requirements into new products and programs. Mr. Singer earned a MBA and a MS in biotechnology from Johns Hopkins University and a BS in chemical engineering from the University of Maryland.

Smith, Ron - is President of "Ron Smith & Associates, Inc.", a forensic science services company with laboratory facilities in Collinsville, Mississippi and Largo, Florida which specializes in case consultation, forensic training and forensic management services. He began his career with the Federal Bureau of Investigation in 1972, moving on to the Alabama Bureau of Investigation, and from 1978 to 2002 with the Mississippi Crime Laboratory, retiring as Associate Director. He has over thirty-nine years of experience in latent print, crime scene and laboratory management practices and is internationally certified as a latent print examiner and senior crime scene analyst. He has personally conducted forensic training seminars in over forty-five states, throughout Canada, England and Western Europe, as well as South America, the Caribbean Islands and New Zealand. Since entering into the private sector in 2002, he has developed a consulting group of nationally known experts specializing in a wide variety of forensic areas, who have rapidly become one of the nation's most widely used problem solving teams available to the criminal justice community. Utilizing the very best forensic experts across North America, RS & A is able to develop customized teams and unique solutions to forensic problems, wherever and whenever they occur. In July of 2001, Ron was awarded the "John A. Dondero Memorial Award", which is the highest award bestowed by the International Association for Identification.

Snyder, Christine L. - is a Crime Scene Analyst and Footwear/Tire Impression Examiner at the Seminole County Sheriff's Office in Sanford, Florida. She holds a Ph.D. in Interdisciplinary Ecology from the University of Florida, and a Master of Science in Biology and Bachelor of Science in Biology from Virginia Commonwealth University. Dr. Snyder is a Certified Senior Crime Scene Analyst and Certified Footwear Examiner. She is a member of the Crime Scene Certification Board with the IAI, the Crime Scene Certification Committee with the FDIAI, the Footwear & Tire Track Identification Committee with the FDIAI, and the Florida Emergency Mortuary Operations Response System (FEMORS). She is also a member of SWGTREAD and the chair of the Standards Committee.

Spriggs, Jill - as the Laboratory Director of the Sacramento County District Attorney's Office Laboratory of Forensic Services, Ms. Spriggs holds over 24 years of professional experience in the area of forensic science, specializing in DNA analysis. She oversees a full operation crime laboratory serving the citizens of Sacramento County. Ms. Spriggs often consults on cold cases and teaches classes for the California Department of Justice Advanced Training Center in the area of DNA and cold case investigation. She has also taught classes at University of California, Davis, California State University, Sacramento and at the University of New Haven-West Coast Campus in Sacramento, California. She holds a Bachelor of Science degree in Forensic Science and a Master's Degree in Business Administration. She also currently serves as the President of the American Society of Crime Laboratory Directors, Secretary for the Consortium of Forensic Science Organizations and as the Treasurer of California Association of Crime Lab Directors.

Stejskal, Susan M. LVT, PhD, DABT - is a board-certified toxicologist, licensed veterinary technician, and Special Deputy/Human Remains Detection (HRD) Dog Handler with the St. Joseph (MI) Sheriff's Department. Along with 25 years of educational and professional experience, she has conducted land and water searches throughout Michigan and the central midwestern United States with her detection dogs for over 10 years. Stejskal's work in toxicology and pathology and her experience as an HRD dog handler lead to the development of practical forensic science training for law enforcement K-9 handlers, detectives, and crime scene technicians. She provides this training for police agencies throughout the country. She is also author of the recently published "Death, Decomposition, and Detector Dogs: from Science to Scene" (CRC Press).

Stimac, Jon - is both a Certified Latent Print Examiner and a 'Distinguished Member' of the International Association for Identification (IAI), while also serving as Editor for their bimonthly publication, IDentification News. After receiving his Bachelor of Science degree in Criminalistics from Weber State University in 1993, Jon began his forensic science career with the Salt Lake City Police Department Crime Laboratory. Since 1996, he has worked in Oregon as a Forensic Scientist/Latent Print Examiner. Jon is a member of the NIJ sponsored Scientific Working Group on Friction Ridge Analysis (SWGFAST) and has had several research projects pertaining to latent friction ridge development published in the Journal of Forensic Identification, Fingerprint Whorld and Divisional IAI newsletters. More recently, he has instructed numerous comparison courses (Intermediate, Advanced and Plantar Comparison of Friction Ridge Impressions) to both latent print and tenprint analysts throughout the United States and from Argentina.

Swofford, Henry J. - is a graduate of Georgia State University with a Bachelor of Science degree in Biology with a minor in Chemistry. Swofford began his forensic career in 2003 as a Laboratory Technician at the headquarters crime laboratory of the Georgia Bureau of Investigation in Decatur, Georgia. In 2008 Swofford began his employment as a Latent Print Examiner with the United States Army Criminal Investigation Laboratory (USACIL). In 2010, Swofford became the Research Coordinator overseeing the technical and scientific developments within the Latent Print Branch and coordinating with researchers worldwide. Swofford has authored multiple articles and presented in various forensic disciplines. Swofford is a member of the Editorial Board for the Journal of Forensic Identification and serves on the International Association for Identification Forensic Identification Standards Committee. Swofford is an active member of the International Association for Identification, Canadian Identification Society, and the Georgia State Division of the International Association for Identification.

T

Taravella, Andrew D. - is a twenty year veteran of the Houston Police Department assigned for the last eleven years to the Homicide Division's Crime Scene Unit. Andrew has a bachelor's degree in Criminal Justice from Stephen F. Austin State University and is a former captain in the U.S. Army. Teaching general crime scene investigation related courses at the Houston Police Academy is included as part of Andrew's current instructional duties.

Taylor, Karen T. - is a forensic artist, portrait sculptor and facial identification specialist based in Austin, Texas. She worked for over eighteen years at the Texas Department of Public Safety and now has her own business, Facial Images. Author of Forensic Art and Illustration, the first in-depth textbook for her field, she taught forensic art for twenty-one years at the FBI Academy at Quantico. She currently teaches workshops at the Scottsdale Artists' School and at the Forensic Anthropology Center at Texas State University (FACTS). A Life Active member of the IAI, Karen serves on the Forensic Art Certification Board and was the first female recipient of the Dondero Award in 2002.

Taylor, Melissa - is a Management and Program Analyst with the Law Enforcement Standards Office (OLES) at the U.S. Department of Commerce's National Institute of Standards and Technology. She works within the OLES Forensic Science Program, focusing primarily on fingerprint-related research and integrating human factors principles into forensic sciences. Ms. Taylor currently serves as a member of the INTERPOL AFIS Expert Working Group, associate member of the International Association of Identification, and executive secretary of Subcommittee on Forensic Science's Latent Print AFIS Interoperability Task Force.

Thomas, Jennifer - is a doctoral candidate at Florida International University (FIU). In 2006, Jennifer earned her Bachelor of Science degree in Chemistry from the University of the Virgin Islands. Jennifer also interned at Bechtel SAIC, the University of Mississippi, and the Pacific Northwest National Laboratory as an undergraduate. At FIU, Jennifer has conducted extensive research developing new capillary electrophoresis methods for analyzing drugs used in sexual assaults. Her current focus is on creating methods for detecting organic compounds present in gunshot residue, a project funded by the National Institute of Justice. Jennifer has an article "Separation and Detection of Smokeless Powder Additives by Ultra Performance Liquid Chromatography with Tandem Mass Spectrometry" accepted for publication in the Journal of Forensic Sciences.

Thompson, Lyla - is currently the Section Supervisor of the Latent Print Section, Johnson County Sheriff's Office Criminalistics Laboratory, Olathe, Kansas. She has more than 37 years of experience as a latent print examiner employed by the Johnson County Sheriff's Office and with the Independence, Missouri Police Department. She has been a certified latent print examiner since 1982 and has served as a member, Secretary and Chair of the IAI's Latent Print Certification Board. She is currently serving as a Special Advisor on the Latent Print Certification Board.

Thompson, Robert M. - is a Program Manager with the Law Enforcement Standards Office (OLES) Forensic Science Programs in the National Institute for Standards and Technology (NIST) for over 4 years. He has over 33 years experience as a Forensic Scientist and Criminalist. He is certified in Criminalistics by the American Board of Criminalistics (ABC) and is Chairman – Association of Firearm and Toolmark Examiners (AFTE) Certification Program Committee. Mr. Thompson has a Bachelor's of Science in Forensic Science with Chemistry minor from the California State University in Sacramento, California. Prior to joining NIST, Mr. Thompson was a Senior Firearms and Toolmark Examiner for the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Forensic Science Laboratories for 14 years, and as a Forensic Scientist or Criminalist in crime laboratories with the Washoe County Sheriff's Department (Reno, Nevada), Oregon State Police, and the Genelex Corporation (Seattle, Washington). His court accepted expert testimony includes Firearms/Toolmark Identification, Proximity Testing, Serology and DNA analysis, Drug Analysis, Hair and Fiber Examination, Blood Spatter Reconstruction, Shoe Print Comparison, and Crime Scene/Shooting Reconstruction. Mr. Thompson has testified as an expert in numerous Federal and State courts and has professional affiliations with a number of regional, national, and international forensic societies. He is published in the Journal of Forensic Sciences, Forensic Science International, Journal for the Association of Firearm and Toolmark Examiners, Proceedings of SPIE – The International Society for Optical Engineering, Journal of Research –NIST, Inside ATF, Measurement Science and Technology, and the FBI Crime Laboratory Digest.

Thorsted, Michael – has spent the last eight years providing forensic products to crime scene investigators in the United States. The products have been used to locate and capture digital evidence from the crime scene and in the forensic labs, to be used in court. Michael has over 21 years of experience designing UV intensified products. Michael has experience in all aspects of UV, Visible and Near IR optics and imaging systems. In 1995 he was one of two engineers responsible for the design and development of the original portable RUVIS viewer. In 1996 the viewer design was provided to SPEX through a technology transfer and is now in use throughout the world. In 2012 in a move to bring the RUVIS viewer into the digital world, Michael created the world's first 16MP Digital RUVIS imaging and capture system. With a 1000 ppi resolution over a 3 ¼" x 4 ¾" area it has higher resolution than UV film.

Toalson, Britt - has been a Senior Forensic Photographer with the Seattle Police Department for the past 18 years and served 11 years in the US Army. He has provided lectures and workshops to numerous Government agencies, State laboratories and the IAI. Agencies include Law Enforcement, Health services, Fire Services, and the US Military. His lectures and workshops have ranged from a 30 min briefing to 40 hr workshops with audiences from five to one hundred and twenty individuals. He enjoys the challenge and opportunity of presenting to a group of individuals and seeing that "ah-ha" moment on their faces when an idea hits home.

BIOGRAPHIES

Trujillo, Gil - Is currently employed by the Los Angeles County Sheriff's Department as Supervisor in the Crime Scene Investigations/Latent Print Unit. He has worked for the Sheriff's Department for over thirty years, the first 20 as a studio forensic photographer, then ten years as a crime scene investigator. His current responsibilities include supervisor in charge of all crime scene field operations ranging from burglary calls to major crimes scenes. He is also responsible for the training programs that prepare incoming sworn and civilian personnel to handle the various crime scene environments that are encountered on a daily basis in the Los Angeles County Sheriff's Department jurisdictions.

Truta, Ioan - has been a Senior Criminalist with the Latent Print Section at Boston Police Department since 2005. He started his forensic career in 1996 in Romania and worked in the forensic field of crime scene investigation, forensic photography and pattern impressions identification (fingerprints, footwear imprints, tool marks and questioned documents). Starting spring of 2011 he is a Lecturer at Boston University School of Medicine teaching part of the Pattern Evidence Analysis course, for the Master of Science program in Biomedical Forensic Sciences. Ioan is a Certified Latent Print Examiner, Certified Forensic Photographer, Certified Senior Crime Scene Analyst, and Certified Footwear Examiner by IAI and he has also earned a bachelor degree from LAW School, in Bucharest, Romania.

Tuceryan, Mihran - received the B.S. degree from the Massachusetts Institute of Technology, Cambridge, in 1978 and the Ph.D. degree from the University of Illinois at Urbana-Champaign, in 1986. He is currently a Professor with the Department of Computer Science, Indiana University–Purdue University Indianapolis, Indianapolis, Indiana. His research interests include computer vision, visualization, pattern recognition, and their applications to real world problems such as augmented reality, video analysis for analyzing human activities, and forensic imaging applications.

U

Ulery, Brad - is a Senior Principal at Noblis, whose work in biometrics has included several technology evaluations and systems engineering projects. Recent publications include the Black Box Latent Print Examiner Study, Studies of Biometric Fusion (NISTIR 7346), Slap Fingerprint Segmentation Evaluation 2004 "SlapSeg04" (NISTIR 7209), and the Fingerprint Vendor Technology Evaluation 2003 "FpVTE" (NISTIR 7123). Mr. Ulery has a B.A. in Mathematics from Carleton College, an M.S. in Computer Science (Graphics) from UCLA, and was a PhD candidate in Software Engineering at the University of Maryland.

Underwood, Bethany R. – is a Physical Scientist/Forensic Examiner with the Terrorist Explosive Device Analytical Center Latent Fingerprint Unit (TLFU) at the Federal Bureau of Investigation Laboratory in Quantico, VA. She received her Bachelor of Arts degree in Pre-professional Biology from Warner University in Lake Wales, Florida and her Master of Sciences degree in Forensic Science/Forensic Toxicology from the University of Colorado. Beth's current duties include case work, agent training, and work on latent print admissibility issues as a member of the Fingerprint Legal Advisory Group.

V

Vanderkolk, John R. - is the manager at the Indiana State Police Laboratory, Fort Wayne. John, BA forensic studies and psychology, was trained in latent print, shoe/tire print, firearm/tool mark, and fracture examinations. He is a life and distinguished member of the IAI, a member of its Forensic Identification Standards Committee, Standardization II committee, editorial board of the Journal of Forensic Identification, SWGFAST and the Expert Working Group on Human Factors in Latent Print Analysis. Since 2002, John has been collaborating with Tom Busey of Indiana University studying cognitive differences between experts and novices in forensic comparative science. John also collaborates with Jeremy Blackwood of Marquette University on human knowing and believing, and Barbara Lograsso of the Ames Laboratory and Ashraf Bastawros of Iowa State University on the study of fractures. John participated in the US DOJ OIG review of the erroneous determination of Brandon Mayfield as the source of a latent print in the Madrid bombing case. Plus, he authored the Examination Process chapter of The Fingerprint Sourcebook and the textbook Forensic Comparative Science – Qualitative Quantitative Source Determination of Unique Impressions, Images, and Objects.

Van Stratton, Michael J. - is the Laboratory Director of the Kansas Bureau of Investigation. He has more than 28 years of experience in bloodstain pattern analysis and has been teaching basic and advanced courses in bloodstain pattern analysis for more than 22 years at forensic laboratories, universities and at educational conferences in the United States and Canada. Mike is currently the chair of the Bloodstain Pattern Examiner Certification Board for the International Association for Identification and is certified by the IAI as a Certified Bloodstain Pattern Analyst and Certified Latent Print Examiner. He was a member of SWGSTAIN, which is the Scientific Working Group on Bloodstain Pattern Analysis for 10 years.

Vernon OBE, Professor Wesley - is Head of Podiatry Services and Research Lead for the Community Services Directorate of Sheffield Teaching Hospitals, and Visiting Professor at Staffordshire and Huddersfield Universities. He has lead on various initiatives, which have contributed to changing practice in podiatry including the initiation and development of forensic podiatry in the UK. He was the first Accredited Forensic Practitioner with the Forensic Science Society, with whom he has worked closely to develop governance arrangements for the forensic podiatry discipline. He has researched forensic, workforce and developmental aspects of podiatry and has authored over 60 publications in his field including the first textbook on forensic podiatry. He currently chairs the forensic podiatry sub-committee within the International Association for Identification and the Healthy Footwear Guide scheme. In 2009, he was awarded an OBE for services to health care.

Villa, Sonya - is a Forensic Identification Specialist II with the Los Angeles County Sheriff's Department. She has worked in Law Enforcement for 18 years and has been assigned to the Sheriff's Crime Lab for 11 years as a Latent Print Examiner and Crime Scene Investigator. Sonya currently is a trainer in the Sheriff's Latent Print Comparison Training Program. She is an active member of the IAI.

Villarreal, Domingo – is the Chairman of the Crime Scene Certification Board, with over 20 years experience in crime scene processing. He is currently a retired Detective that was assigned to the Humble Police Forensic Lab, responsible of all major crime scenes. He is trained on DNA evidence, a Facial Forensic Artist, Forensic Photographer, and a Fingerprint Examiner. He has a Master Peace Officer Certification, and is a Certified Senior Crime Scene Analyst by the IAI. Domingo has given lectures and taught classes in Crime Scene Investigations for more than 15 years. He has taught at forensic universities, police academies and professional organizations in many different states and in Mexico, Venezuela, and Colombia.

Vorder Bruegge, Richard W. – is a Senior Photographic Technologist for the Federal Bureau of Investigation. Mr. Vorder Bruegge oversees the FBI science and technology developments in the imaging sciences. He chairs the Facial Identification Scientific Working Group and has publications in forensics and biometrics. A 2010 DNI Science and Technology Fellow, he is also an AAFS Fellow and has been a member of IAI for over a decade.

W

Walker, Jeremy – is the Deputy Head of NHS Podiatry Services in Sheffield UK. He has twenty-five years' experience as a podiatrist, and has undertaken forensic podiatry casework with Professor Vernon for the last thirteen years. He is a member of the IAI Forensic Podiatry Sub-Committee and a member of the Forensic Science Society.

Walton, Richard - Associate Professor (Criminal Justice) at Utah State University Eastern, Richard Walton has over thirty-five years of law enforcement experience as a deputy sheriff and district attorney's investigator in California. Dr. Walton is the author of "Cold Case Homicides: Practical Investigative Techniques (CRC Press, 2006), required reading for IAI certification for Crime Scene Reconstructionist, as well as numerous articles addressing cold case homicide investigation. An experienced cold case homicide investigator and consultant, Dr. Walton has presented to the California Chapter of the IAI, FBI National Academy, National Institute of Justice sponsored cold case seminars, and numerous state homicide investigator association and law enforcement venues. Dr. Walton is a member of the Vidocq Society and other professional organizations.

Warrick, Patrick - is a Latent Print Technical Leader and a Crime Scene Team Leader with the Minnesota Bureau of Criminal Apprehension. Patrick has over 20 years crime scene experience with the Minnesota BCA, the King County Sheriff's Office (Seattle) and the Santa Monica Police Department. He has authored two papers and is a frequent speaker for several different professional organizations, including the IAI and the American Academy of Forensic Sciences. Patrick is the Minnesota State Division Representative to the IAI and a Certified Latent Print Examiner and a Certified Senior Crime Scene Analyst.

Warrington, Richard - started in the field of law enforcement in August 1971. Warrington is a graduate of the Kansas Law Enforcement Training Center in Hutchinson, Kansas. After three months with the Shawnee County Sheriff's Department, he was promoted to sergeant. In May 1978, he organized the crime scene unit for the department and became the lead crime scene officer for the Major Case Squad until his retirement in 1996. Warrington is past president and a member of the Kansas IAI, Florida IAI, Gold Coast Forensic Group, International IAI, on the Board of Directors of the International Crime Scene Investigators Assoc., and Technical Advisory Board of SkillsUSA. Warrington has published articles in the "Journal of Forensic Identification," "Law Enforcement Technology Magazine" and recently, "Evidence Technology Magazine." In 1998, he became the author and publisher of the "Death Scene Check List Manual." He developed and patented the Blue Light Special in 1994. In 2001, Warrington developed the MicroBlue Portable Light Source. He is the developer of many products sold exclusively by the Lynn Peavey Co. Warrington currently teaches classes in "Gizmos & Gadgets," basic latent fingerprint processing, developing/lifting prints on textured surfaces and crime scene investigation. He has developed a Web site to help aid officers in the area of crime scene investigation called Gizmos & Gadgets (www.csigizmos.com). Since retiring in 1996, he is currently in research and development, as well as a crime scene consultant and training instructor for the Lynn Peavey Co.

Watkins, Dawn M. - holds a Masters degree in Criminal Justice, and is a Certified Latent Print Examiner, Certified Forensic Photographer and a Certified Senior Crime Scene Analyst with the IAI. Ms. Watkins is on the IAI Latent Print Identification Standing Committee and Recipient of the Good of the Association Award. She has been in the field of Forensics for over 35 years, formally with the Federal Bureau of Investigations, Washington DC. She is currently the Senior Latent Print Examiner/Crime Scene Investigator with the Palm Beach Gardens Police Department in Florida. Ms. Watkins serves on the Educational Board of the Gold Coast Forensic Association and is an instructor for IPTM-University of North Florida, Orlando & The Taylor Group teaching Advanced Latent Fingerprints. Dawn has been a lecturer at the IAI Training Conferences since 1996.

Watson, Sarah - is a Supervising Forensic Identification Specialist at the Los Angeles County Sheriff's Department's, Scientific Services Bureau. She has more than 10 years of experience in Latent Print Identification and Major Crime Scene Processing. She was a crime scene technician for five years in the unit prior to her current position. She is currently the Fingerprint Comparison trainer in the Latent Print Section.

Witzke, David "Ski" - is Vice President of Program Management for FORAY Technologies. With nearly 20 years of experience, he is considered to be one of the foremost experts in forensic digital imaging. His background includes software development, systems installation and integration, technical support, and training. Ski also has an established reputation in forensic digital image training, and was a guest instructor of Digital Imaging of Evidentiary Photography at the FBI Academy in Quantico, Virginia for more than seven years, and was the instructor for the Forensic Digital Image Processing program at the British Columbia Institute of Technology (BCIT) in Vancouver, BC for more than six years. Ski is also a contributing writer for three well-known books: Crime Scene Photography (Second Edition, 2010, Academic Press); Footwear, The Missed Evidence (Second Edition, 2007, Staggs Publishing); and An Introduction to Crime Scene Photography (First Edition, 2012, Academic Press).

Wolfe, James – became interested in snow impression evidence in the early 1980's while working with the Alaska Fish and Wildlife Protection Crime Lab. He transferred to the Alaska State Crime Lab in 1985 and began researching innovative ways to document and collect snow impressions, teaching these techniques to law enforcement officers across Alaska. After retiring from the crime lab in 2004. Jim continues to work as a traveling trainer with the Alaska Police Standards Council providing local and regional instruction in impression evidence, forensic photography, and general physical evidence collection. He is an Alaska certified police instructor, regularly working with local police agencies throughout Alaska. Jim is also an adjunct faculty at UAA and UAF teaching forensic science and crime scene techniques.

Wolfer, Roberto – is the Vice President for Business Line Management at Cross Match Technologies. In this position he is responsible for the stationary biometric capture products from Cross Match, including fingerprint, palm scanners, document readers and iris scanners. Before joining Cross Match, he worked for several years in the medical diagnostics industry. Roberto has an engineering degree in Biomedical Engineering, a post-gradual degree in Intellectual Property rights and more than 15 years experiences in product management.

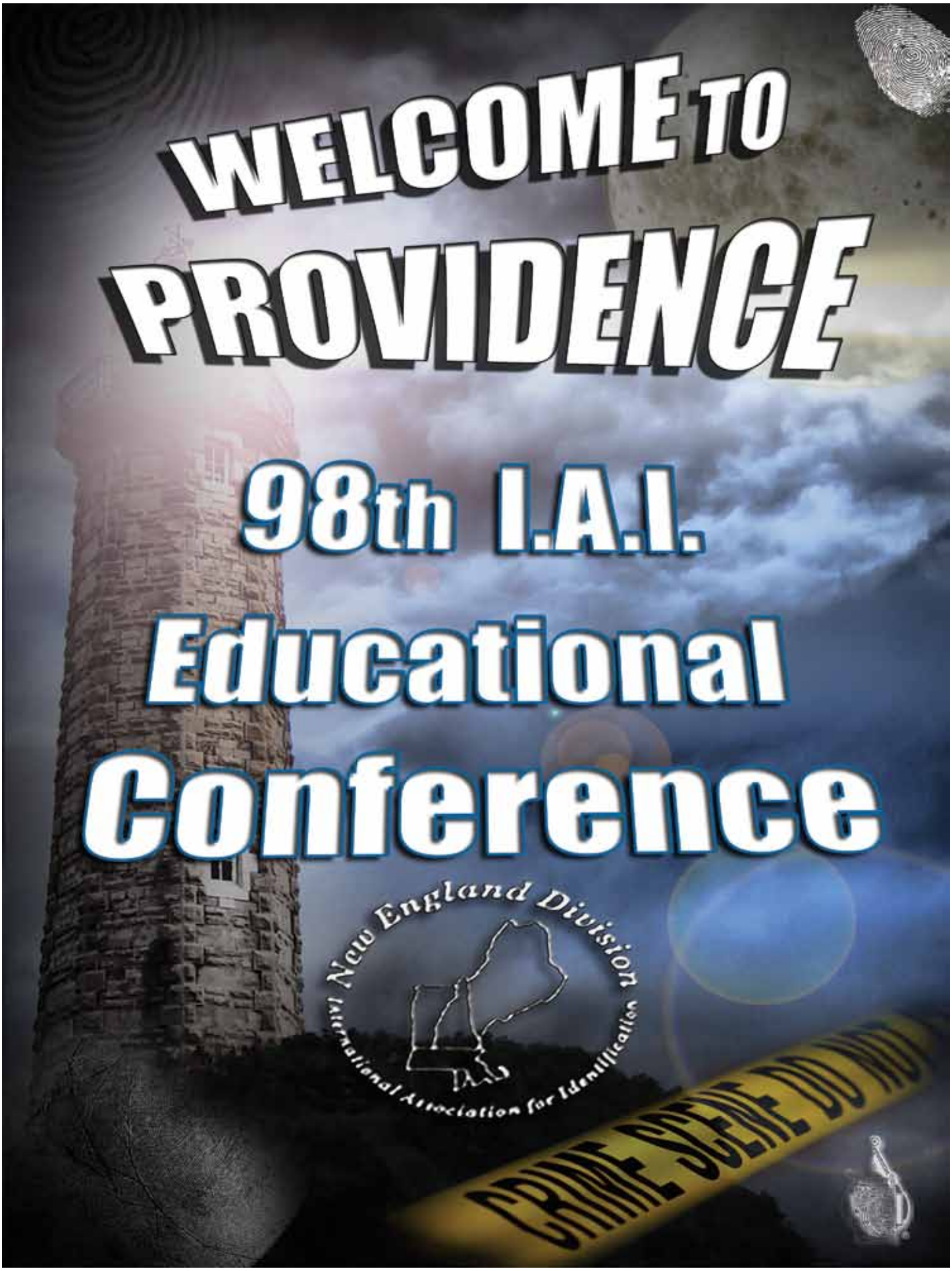
Wood, Stephen – is a mathematician in the Image Group of the Information Technology Laboratory within the National Institute of Standards and Technology. He has worked at NIST since 2002, with a recent focus on the analysis of performance of automated friction-ridge matchers and on the ascertainment of ground-truth in large biometric databases.

Y

Yamashita, Brian - has been working as a Research Scientist for the RCMP in Ottawa since 1989. His main area of interest is Forensic Identification. Besides carrying out research in fingerprint recovery, bloodstain pattern analysis, and impression evidence, he provides assistance to Canadian crime scene investigators through training and troubleshooting. He is a member of SWGTREAD and SWGSTAIN.

Z

Zabinski. Mark – is presently employed as a Criminalist II, Latent Print Examiner for the Rhode Island State Crime Laboratory. He has 12 years of prior crime scene investigation experience with the Cranston Police Department that included latent print examinations in Rhode Island. Mark has also been a professional photographer for the past 18 years and has been teaching photography classes to crime scene investigators for the past 16 years, including digital enhancement. Mark is certified by the IAI as a Senior Crime Scene Analyst and Certified Latent Print Examiner.


WELCOME TO
PROVIDENCE
98th I.A.I.
Educational
Conference
New England Division
International Association for Identification
CRIME SCENE DO NOT

AFIS and Biometrics Consulting Inc.

AFIS Industry Expert Authorities

AFIS Procurement Support Services

Guaranteed Savings

Over $17M savings in support of 15 AFIS procurement contracts in the last four years

Best Value Strategy

We will help you get the best technology at the best price.

New Technologies

Mobile Fingerprint Capture & ID in the Field, Applicant and Criminal Livescan Network, Face and Iris Recognition

Call John McCowan, Vice President of Sales

Toll Free 1-800-351-9604

Email us: *Johnmccowan@afisandbiometrics.com*

Visit our Website: *afisandbiometrics.com*

2013 Fall OIO Training Seminar

Make plans to join us!

September 18-20, 2013
Crowne Plaza Columbus North- Worthington
Columbus, OH

All day forensic workshops

PRESENTATIONS:

Virginia Tech Shooting – Virginia Tech Police Department
Jessica Sacco Homicide – Urbana Police Department
Maria Ridulph Homicide – Illinois State Police Department
Critical Incident Response – North American SWAT Training Assoc.

2016 IAI Educational Conference Co-Host Cincinnati, Ohio

For more information go to **www.oioa.org**

The Largest IAI Division Conference

FDIAI Miami 2013

54th Annual Forensic Training Conference
October 20 - 24, 2013 - Miami, Florida

KEYNOTE SPEAKER:
Judge Alex E. Ferrer
From the TV Show "Judge Alex"

FDIAI.org

Air Science®

Forensic® SERIES

Review our product offerings, visit **www.airscience.com** to download full-length specifications sheets, or contact us today to learn more.

Air Science provides products to meet the needs of each step in the evidentiary chain, from field processing, to transport and storage, to analytical procedures in the laboratory.

General Purpose Evidence Drying Cabinets

- Controlled, tamper-resistant environment.
- Integrates seamlessly into existing laboratory, requiring no additional construction or ductwork.
- Air Science ductless technology removes airborne pathogens, particulates, fumes, and odors.
- *Model FDC-006XT:*
  Scan for full specification.

Chemical Processing Workstations

- Protects against fumes and particle hazards, including ninhydrin sprays and super glue.
- Advanced monitoring features.
- Enhanced energy saving capabilities.
- Green technology.
- *Model P10 (Advanced)*
  Scan for full specification.

BASIC ADVANCED

Special Purpose, Fingerprint Powder Workstation

- Downward airflow in the chamber protects the operator from print powder particles.
- Enhanced Filtration Technology (EFT) for organic and inorganic compounds.
- Unrestricted Access.
- Carbon and HEPA filters.
- *Model DWS-24:*
  Scan for full specification.

Automatic Cyanoacrylate Fuming Chamber

- Safely develop latent fingerprints in a controlled environment.
- No additional ductwork required.
- Automatic fuming cycle control.
- UV decontamination option available.
- *Model CA-30s: shown with UV option.*
  Scan for full specification.

Evidence Inspection Glove Bag

- Provides more working volume than any other glove bag available.
- Easy, stable setup thanks to five semi-rigid support poles and suction cup feet.
- Polyurethane sleeves equipped with double o-ring cuffs for easy glove changes.
- Dual HEPA filter availability.
- *Model FLEX-24:*
  Scan for full specification.

Fast DNA Decontamination, with High Intensity UVC Radiation

- Highly efficient chambers designed to safely decontaminate contents.
- High intensity UV lamps to destroy exposed surface DNA and bacteria.
- Decontaminate evidence prior to other forensic tests, analysis or procedures.
- *Model UVB-15:*
  Scan for full specification.

120 6th Street • Fort Myers, FL 33907
T/239.489.0024 • Toll Free/800.306.0656 • F/800.306.0677
www.airscience.com

“In 2003, we launched the magazine that is dedicated exclusively to the technology of evidence collection, processing, and preservation. Ten years later, we also produce a website, a collection of monthly eNewsletters, an annual Resource Guide, and a Digital Edition.

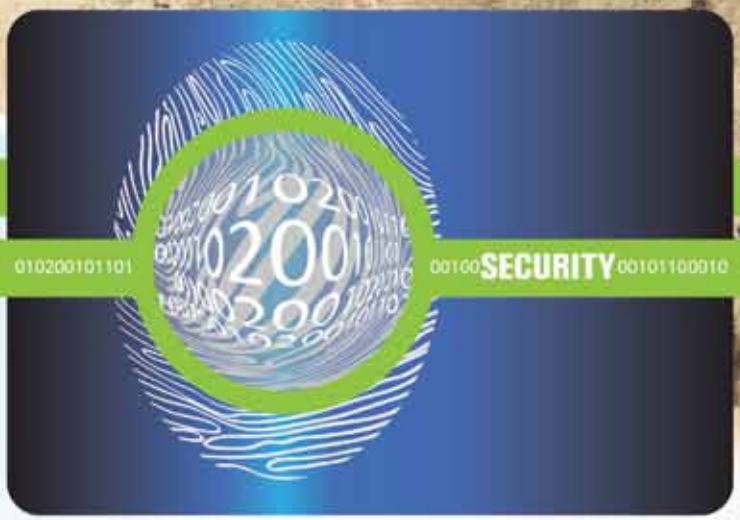
And we are just getting started.

Thank you for your readership, support, and contributions over this past decade. I look forward to working with you for many more years to come.”

—Kristi Mayo, editor
Evidence Technology Magazine

EVIDENCE TECHNOLOGY MAGAZINE
www.EvidenceMagazine.com

10 YEARS ETM 2003-2013



Digital TraQ with ACE-V Documentation

01020010110100100SECURITY00101100010

Image, video, audio, and Friction Ridge Studio

FRICTION RIDGE STUDIO

Complete ACE-V documentation

Second examiner verification

Enhance friction ridge impressions

Generate charts, reports, and exhibits.

Calibrate, enhance, and compare any two images side-by-side

QueTel

Tracking what matters

ALL YOUR DIGITAL EVIDENCE

Secure digital evidence repository

Eliminate the need to store CDs/DVDs

Easy access for investigators and prosecutors to view, print and download case info

Photoshop integration

Global case search-including body worn and in car video

Bullet Proof security, restrictions, and chain of evidence

Fully Web "Browser-based" Solution

Tima for Art Design

Lift • Image • Enhance • Calibrate • Analyze • Compare • Evaluate • Verify • AFIS •

Digital TraQ is the digital evidence management component of The TraQ Suite, the back office productivity solutions for law enforcement. Other components manage physical evidence, lab requests, documents, quartermaster equipment, uniforms, and supplies, and impounded vehicles.

QueTel Corporation • 800 354 6777, ext 1 • www.quetel.com • sales@quetel.com

THE LINDE GROUP

ADROIT™ FC 300

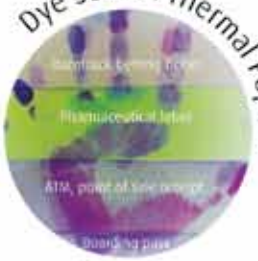
Latent Fingerprint Development System

- → Dry application process
- → No liquid solvents
- → Flexible platform
- → No mixing, dipping, spraying, brushing, drying
- → Data logging
- → Standardized process via PLC recipe control
- → Central command capable via network

Visit us at Booth #705

Dry Pellet

Dye Sub on Thermal Papers



Dye Sub on Metal

CA/Dye on Beer Can

Ninhydrin on thermal paper

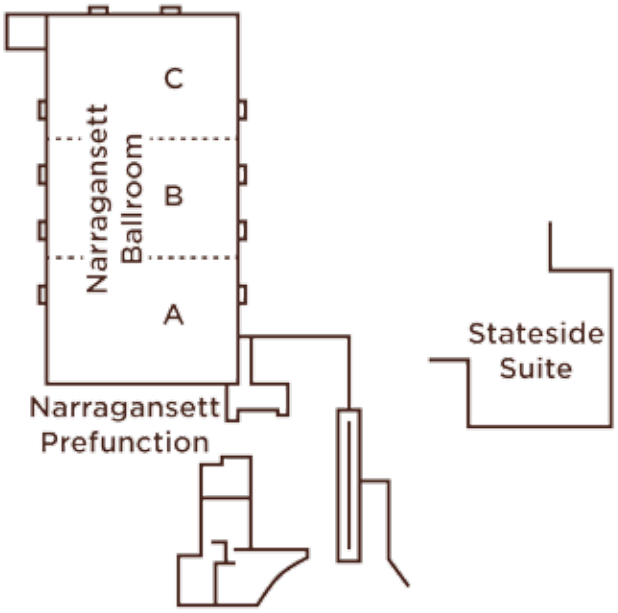
CA/Dye on metal

Linde Canada Limited
5860 Chedworth Way, Mississauga, Ontario L5R 0A2
Phone 1-800-387-4076, www.lindeadroit.com service@lindecanada.com

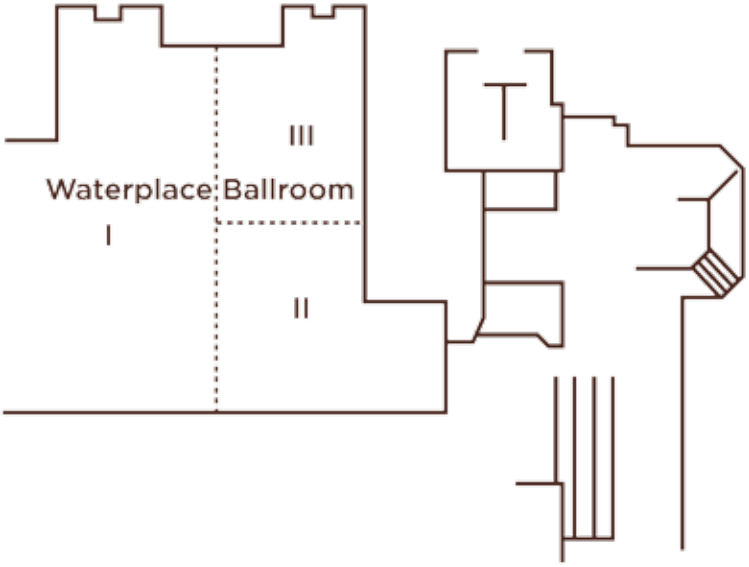
2156_0613

OMNI HOTELS & RESORTS
providence | rhode island

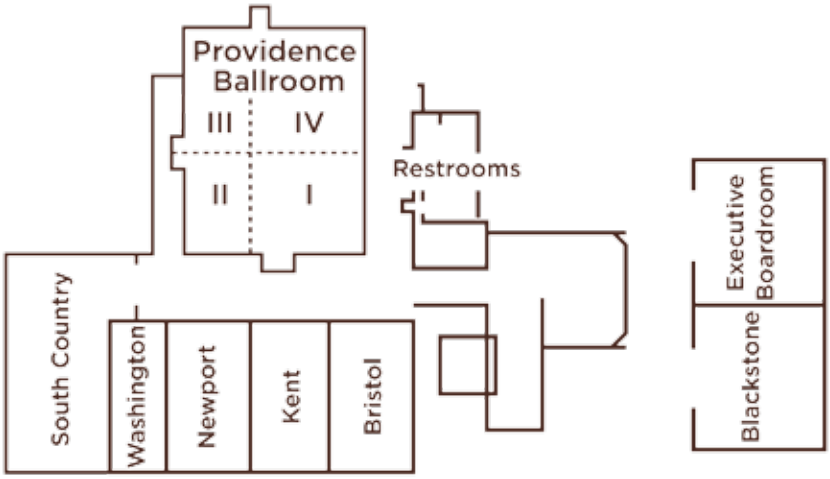
Ground Floor



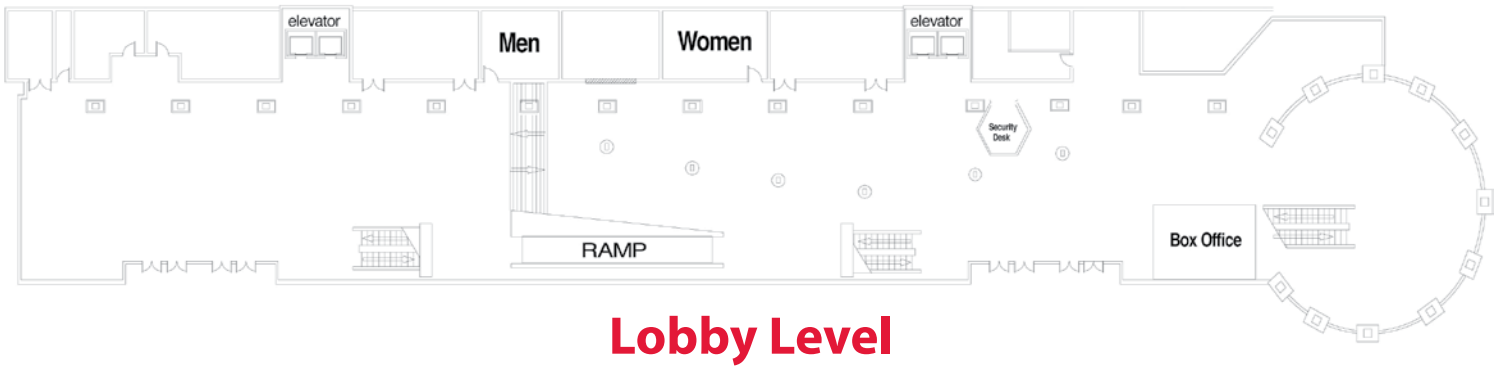
Second Floor



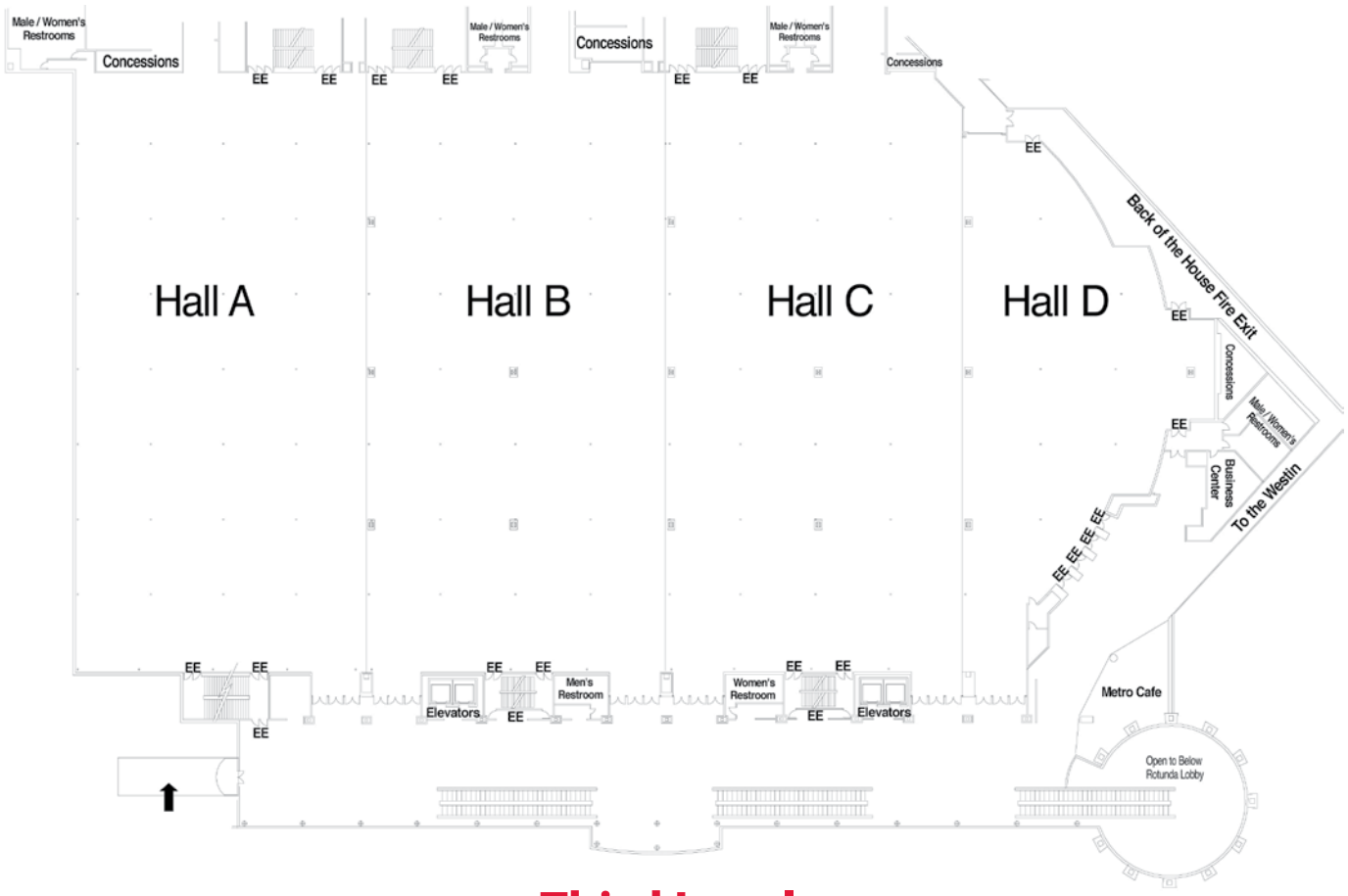
Third Floor



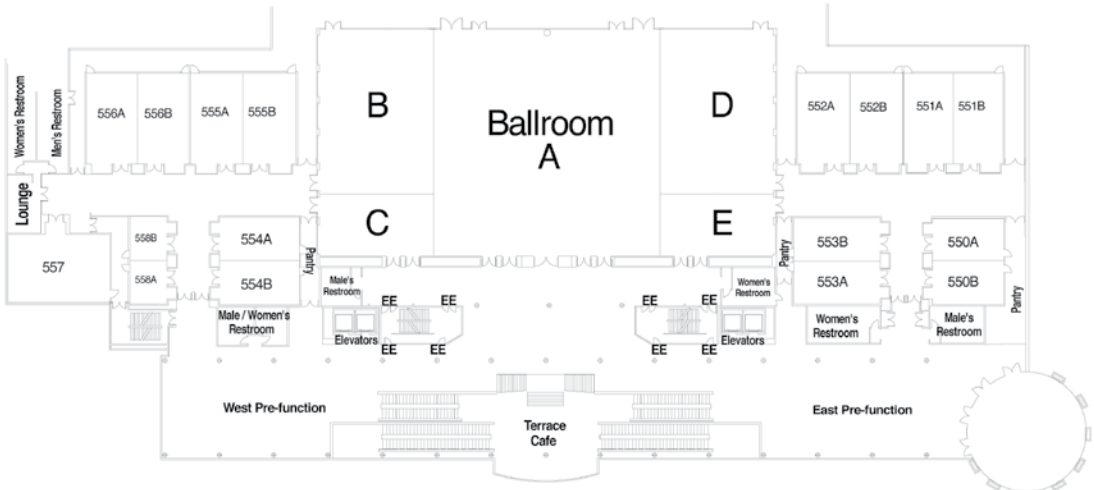
Rhode Island Convention Center



Lobby Level



Third Level



Fifth Level

FORENSICS SOURCE

COME SEE OUR EXCITING

NEW PRODUCT DEMONSTRATIONS!

Tuesday, August 6

9:30–10:30 a.m.	**XCAT Capillary Analysis Test** *Detection in the Palm of Your Hand!*
10:30–11:30 a.m.	**Lightning Powder® with Supranano™ Particles** *True Innovation in Forensics Fingerprinting Technology!*
1–2 p.m.	**XCAT Capillary Analysis Test**
2–3 p.m.	**Wheel of Death**
4–5 p.m.	**Lightning Powder® with Supranano™ Particles**
5–6 p.m.	**Wheel of Death**

Wednesday, August 7

9–10 a.m.	**Lightning Powder® with Supranano™ Particles** *True Innovation in Forensics Fingerprinting Technology!*
10–11 a.m.	**XCAT Capillary Analysis Test** *Detection in the Palm of Your Hand!*
11 a.m.–noon	**Wheel of Death**
1–2 p.m.	**Lightning Powder® with Supranano™ Particles**
2–3 p.m.	**XCAT Capillary Analysis Test**

Immediate Crime Scene Narcotics, Explosives and GSR Detection!

Innovative Nano Particle Technology for Latent Print Processing!

Back By Popular Demand!

THE WHEEL OF DEATH

Stop by and spin for your chance to win prizes!
Tuesday, August 6, *2–3 p.m. and 5–6 p.m.*
Wednesday, August 7, *11 a.m.–noon*

VISIT US AT BOOTH 426!

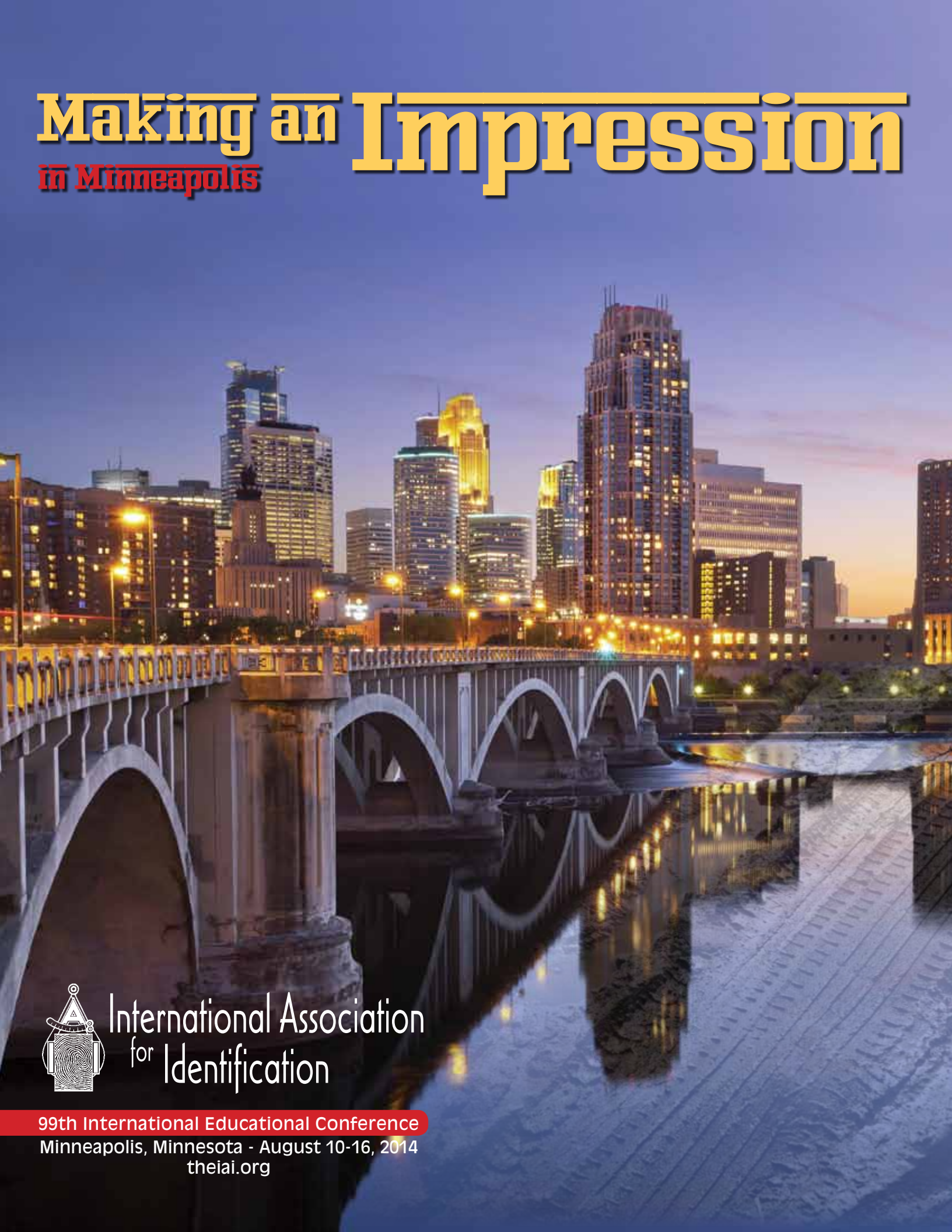
www.ForensicsSource.com | 800.347.1200

EVI-PAQ nik PUBLIC SAFETY LIGHTNING POWDER ODV Identicator

THE SAFARILAND GROUP | Together, We Save Lives.™

NOTES

Making an Impression
in Minneapolis

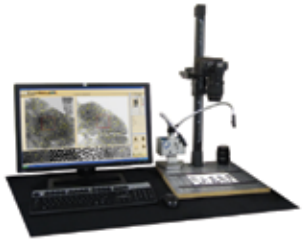


International Association for Identification

99th International Educational Conference
Minneapolis, Minnesota - August 10-16, 2014
theiai.org

Advanced

Biometric Identification Systems



CAFIS

Mobile ID

LiveScan

Iris Recognition

- PRECISION - 99.9% accuracy and full biometric database search
- SCALABILITY - Systems that focus on our customer's evolving biometric needs
- INNOVATION - End-to-end standalone or multi-modal biometric products and solutions
- SPEED - Up to 10 million comparisons per second per matcher
- OPEN MARKET - Deployments in over 60 countries

3M Cogent is a global biometric identification solutions provider to governments, law enforcement agencies, and commercial enterprises. 3M Cogent provides the highest quality identification systems, products, and services with leading technology, accuracy, and speed. 3M Cogent's Automated Fingerprint/Palmprint Identification System, or AFIS, enable customers to capture fingerprint and palm print images electronically, encode prints into searchable files, and accurately compare a set of fingerprints/palm prints to a database containing potentially millions of prints in seconds.

For more information, please visit www.cogentsystems.com

3M Cogent, Inc.
639 N. Rosemead Boulevard
Pasadena, CA 91107 USA
Tel: +1 (626) 325 - 9600
Email: CGTinfo@cogentsystems.com

Gold Sponsor

COGENT
a 3M Company

3M

Captured Once. Captured Period.

NeoFace® Reveal
Investigation Applications

NeoFace® Watch
Surveillance Applications

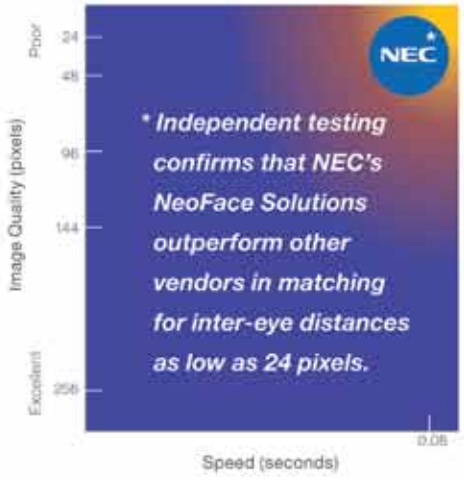
NeoFace® Smart ID
Mobile Applications

NeoFace® Match
Development Tools & Services

NeoFace Solutions. The proven leader at turning bad images into good results.

In the real world, crime scene images are often blurry and of low quality. NEC's advances in facial recognition technology are now turning this previously unusable footage into hard evidence. NeoFace Solutions produces more matches from poor quality images than any other facial recognition solution. Independent testing confirms that NeoFace technology is the most resistant to variants in ageing, race and pose angle.

NeoFace Solutions, simply the fastest and the most accurate.



Turn cold cases into hot leads at: www.necam.com/neoface-law

Empowered by Innovation NEC