

2024 NCAI CONFERENCE

Agenda Update – 7/9/2024

SUN, 10/27/2024			
12:00 to 5:00	Vendor and Conference Setup (Hotel Check-in @ 4:00)		
5:00 to 7:00	Open Conference Registration, Conference Kickoff, and Welcome Prizes		
MON, 10/28/2024			
	Masonboro/Causeway (150) - Main	Turtlewatch (70) - Latent	Soundwatch (30) - Specialized
7:00 to 8:15	Continental Breakfast & Open Registration		
8:15 to 8:45	Opening Ceremony: President's Welcome, Honor Guard and National Anthem, Host Agency Welcome		
8:45 to 10:00	Opening Keynote: Jarrod Grimmett Las Vegas Massacre: The Route 91 Harvest Music Festival Shooting		
10:00 to 10:30	Break with Vendors in Airlie/Tidewater		
10:30 to 11:30	Opening Keynote: Jarrod Grimmett Las Vegas Massacre: The Route 91 Harvest Music Festival Shooting		
11:30 to 1:00	Lunch On Your Own - Board Meeting (BOD only)		
1:00 to 2:30	L. A. Wilson Animal Cruelty	E. Ray AFIS Accuracy	A. Dodson CSEye Spy
2:30 to 3:00	Snack Break with Vendors in Airlie/Tidewater		
3:00 to 4:00	D. Solomon Burned Remains	E. Ray Exclusion	A. Dodson CSEye Spy
4:00 to 4:30		R. Crowley ACE	
4:30 to 5:00		D'Amour Accreditation	
5:00 to 6:00	Break, Nominations Committee Meeting, and Nomination Presentations		
6:00 to 8:00	Halloween Party		
TUES, 10/29/2024			
	Masonboro/Causeway (150) - Main	Turtlewatch (70) - Latent	Soundwatch (30) - Specialized
7:00 to 8:15	Continental Breakfast		
8:15 to 10:00	H. Harrison Child Death	R. Fenrich Poroscopy	M. Ridings Self-Care
10:00 to 10:30	Break with Vendors in Airlie/Tidewater		
10:30 to 11:30	H. Harrison Drug Abuse	D. Huntington Testimony	M. Ridings Self-Care
11:30 to 1:00	Lunch on Your Own		
1:00 to 1:30	C. Lanham Double Homicide	J. Vanderkolk Garbage	A. Holowaty Family Feud
1:30 to 2:30		L. Daugherty Internship Projects	
2:30 to 3:00	Snack Break with Vendors in Airlie/Tidewater (Vendor Breakdown @ 3:00)		
3:00 to 4:00	A. Page Supervisor	J. Vanderkolk OH & IN Cases	D'Amour Validation
4:00 to 5:00	Business Meeting		
5:00 to 6:00	Break		
6:00 to 9:00	Banquet		
WED, 10/30/2024			
	Masonboro/Causeway (150) - Main	Turtlewatch (70) - Latent	Soundwatch (30) - Specialized
7:00 to 8:15	Continental Breakfast		
8:15 to 10:00	R. George Forensic Anthro	J. Vanderkolk Conclusions	T. Poulin Understanding Trauma
10:00 to 10:30	Break (No Vendor)		
10:30 to 11:30	B. Summers Direct Contact	J. Vanderkolk Conclusions	D. Alford Klaas Case Study
11:30 to 1:00	Lunch on Your Own		
1:00 to 2:30	Closing Keynote: Jason Moran John Wayne Gacy and the Quest to Identify his Remaining Victims		
2:30 to 2:45	Snack Break (No Vendors)		
2:45 to 4:30	Closing Keynote: Jason Moran John Wayne Gacy and the Quest to Identify his Remaining Victims		
4:30 to 5:00	Closing Ceremony: Incoming President and 2025 Conference Info		

Keynote Speakers

Jarrold Grimmatt | Detective, Las Vegas Metro Police

Las Vegas Massacre: The Route 91 Harvest Music Festival Shooting

On October 1, 2017, Stephen Paddock, a 64-year-old man from Mesquite, Nevada, opened fires on a crowd attending the Route 91 Harvest music festival on the Las Vegas Strip in Nevada. From his 32nd-floor suites in the Mandalay Bay Hotel, he fired more than 1,000 bullets, killing 60 people and wounding at least 413. The ensuing panic brought the total number of injured to approximately 867. About an hour later, he was found dead in his room from a self-inflicted gunshot wound. Join us as Las Vegas Metro Police Department Detective Jarrold Grimmatt details the investigation into this horrific mass murder.

Biography

Detective Grimmatt is a highly organized, take-charge professional with more than 26 years of law enforcement experience. He gained over twelve years of investigative experience as an Assistant Team Leader of the LVMPD Crisis Negotiations Team and was a lead detective with Internal Affairs Narcotics and Homicide Bureau. He spent five years as a Federal Task Force Officer investigating State and Federal criminal offenses.

Jason Moran | Commander of Police, Cook County Sheriff's Office

Forensic Services Initiative Team: Reopening the John Wayne Gacy Case and the Quest to Identify his Remaining Victims

Abstract TBD

Biography

Jason Moran is a member of the Cook County Sheriff's Office where he has served for twenty-four years. He currently holds the rank of Commander of Police and is assigned to the Special Victims Unit. In that role, Commander Moran leads the Forensic Services Initiative which is responsible for the investigation of human identification cases, complex deaths, cold missing person and homicide cases, and death care industry incidents. He has made local and national headlines for leading major investigations and closing several high-profile cases. Among these are the Chicago Burr Oak Cemetery Case, the probe into the Cook County Medical Examiner's Office, and the identification of three of the victims of the serial killer John Wayne Gacy. Commander Moran has appeared in several news programs and has been featured in several documentaries. Recently, he appeared in the Netflix documentary, "Conversations with a Killer; The John Wayne Gacy Tapes." Commander Moran has completed in-depth research and field work regarding the burial of Cook County's Indigent, Unclaimed, and Unidentified. He was the Vice-Chairman of the Cook County Medical Examiner's Advisory Board and has assisted that office with several items like the proper handling of Unidentified Deceased Person cases. As a result of his investigations, Commander Moran has worked with county and state officials in drafting legislation regarding public burials and certain forensic methods. He has formed a Forensic Archaeology Team and has conducted approximately twenty exhumations/grave inspections to include clandestine grave excavation. Commander Moran has received several notable awards for his work. Some of these are the International Association of Chiefs of Police 2012 August Vollmer Excellence in Forensic Science Award, Cook County Crime Stoppers 2015 Excellence in Law Enforcement Award, and the National Criminal Justice Training Center of Fox Valley Technical College 2017 Conference Service Award. He is trained in many investigative sub-categories like forensic archaeology, human/comparative osteology, human identification, and DNA evidence. Jason is an instructor and lecturer. He teaches the Illinois

Lead Homicide Investigator Course and a Missing/Unidentified Person course. In 2019, he lectured at the International Association of Chiefs of Police Expo and Conference in Chicago.

Main/Crime Scene Room Speakers

Leigh Anne Wilson | Director of Investigations, ASPCA

Animal Cruelty and Neglect- What You Should Know

This presentation will focus on understanding the basic components of identifying evidence of animal cruelty and neglect. Crime scenes involving animals can be challenging, but understanding the connection between animal abuse and interpersonal violence can assist both the human and animal victims. Attendees can expect to be given tools to recognize key items indicating dogfighting, cockfighting, animal hoarding, puppy mills, and non-accidental instances of animal cruelty and neglect. Animal cases are complex crime scenes with many items of evidence outside of the animals themselves, help to further the investigation. Animal hoarding scenes pose risk throughout the environment. The course will focus on areas of documentation that best replicates the scenes. Additional resources will be shared to further assist your organization through collaborative efforts.

Biography

Leigh Anne's background is focused in animal cruelty investigations, which comes from over 15 years working in animal services overseeing the animal investigations and working as a sworn law enforcement officer in North Carolina. Leigh Anne had oversight on an "Animal Cruelty Investigations" program that included two staff that answered over 1100 animal welfare checks annually. Leigh Anne has investigated hundreds of cases of animal neglect and cruelty to include animal hoarding, domestic violence related animal cruelty, rescue and sanctuary neglect, blood sports, and malicious non-accidental cruelty. Through her law enforcement career, she has obtained her Peace Officers Standards and Training Instructor Certification and her North Carolina Department of Justice General Instructor Certification. Leigh Anne trains Law Enforcement, ACO's, prosecutors and other animal welfare professionals on identifying evidence of neglect or cruelty and investigative techniques for the best possible outcome.

Darren Solomon | Senior Special Agent/Certified Fire Investigator, Bureau of Alcohol, Tobacco, and Firearms

Forensic Anthropology and Burned Remains Research Center (FABRRC) - Advanced Fatal Fire Scene Techniques and Research

In 2020, a working collaboration between the Bureau of Alcohol, Tobacco, Firearms and Explosives and Western Carolina University was created. This joint venture combined WCU's Forensic Anthropology Research Station (FOREST) with ATF's fire investigation resources including CFIs, NCETR, and the Fire Research Laboratory. The partnership is known as FABRRC and has a core mission of utilizing the expertise and resources from both institutions for the purposes of training and research. Specifically, the collaboration concentrates on the forensic research and training of burned human remains. The gained techniques and knowledge are intended to enhance an investigator's skillset while conducting fatal fire scene investigations. Since inception, the partnership has provided advanced professional instruction to law enforcement, fire service, legal, forensic, and medicolegal investigative personnel from across the United States and Canada.

Biography

Darren Solomon is a Senior Special Agent with the Bureau of Alcohol, Tobacco, Firearms and

Explosives (ATF) based in Charlotte, North Carolina. SA Solomon has worked for ATF for over twenty years, serving ten of those years as a Certified Fire Investigator and IAAI-CFI. SA Solomon is also a member of ATF's National Response Team and has been designated as Lead CFI on multiple responses. SA Solomon holds a bachelor's degree from the University of North Carolina – Chapel Hill and a master's degree from Oklahoma State University. He also represents ATF on the National Fire Protection Association 1321 Committee and is currently the President of the IAAI– North Carolina Chapter. During the course of his career, SA Solomon has had the privilege to teach at various conferences, the National Fire Academy, the Federal Law Enforcement Training Center, and the International Law Enforcement Academy in El Salvador.

William Harrison | Assistant Professor of Pathology, Atrium Health Wake Forest Baptist Medical Center

Investigating Child Deaths

Except for perhaps birth-related deaths, in today's society children are not expected to die. When it does happen, it is typically viewed as a great tragedy – for a life not long-lived and companionship too soon denied. As such, there is often a need to understand why these deaths occur. This understanding provides closure to family members as they reconstruct their lives. In addition to closure, further investigation into a child's death helps identify medical/genetic diseases that may affect closely related family members; facilitate appropriate criminal justice action when abusive injures or neglect are present; and enable the community to develop plans to better prevent such deaths. State and local child fatality review teams are an essential component of public health, providing a comprehensive look into a child's death on a case-by-case basis, through information gathered from law enforcement officials, death investigators, clinicians, and pathologists. These teams provide information and discussion necessary, to not only, thoroughly investigate and correctly label a death, but create recommendations to prevent future deaths of the same manner. This presentation will provide attendees with up-to-date recommendations regarding the investigation of child death, with special emphasis on questions to ask caregivers of the deceased. This includes, but is not limited to, inquiries about the pregnancy; potential birth complications, if any; postnatal health; vaccine compliance; sleep practices; and drug usage within the household. The importance of doll reenactments will be emphasized. A select survey of various causes and manners of deaths will be presented with real world examples provided to reiterate the learning objectives. Hopefully, with the aid of this presentation, child fatalities will be better understood, and attendees will feel more empowered and better prepared to investigate these cases, allowing for a brighter future for children and families everywhere.

Pathology of Drug Abuse

Attitudes about drugs have been changing as the consumption of both legal and illicit substances continues to remain an ever-growing societal issue. Prior to 1960, drug-related deaths were primarily overdose of barbiturates and narcotics, particularly heroin. Since then, the number of drugs commonly abused has greatly expanded, including prescription opioids and most recently, illicit fentanyl. A death caused by a drug overdose is rarely a solitary event. The effects often extend far beyond the individual and his or her loved ones, cascading down to strangers; the emergency medical personnel who were called to try and save them; the law enforcement officials who investigate their death; the pathologists and staff who perform their medicolegal autopsies; their employers and co-workers; and the community at large. For many years, most prosecutors charged only those drug-related deaths involving rival drug gang fights as homicides; however, the focus has now broadened

to examine overdose deaths as prosecutable homicides against those who sold and distributed the drugs causing the overdose. As such, the overarching goal of this presentation is to educate attendees about the history of drug/alcohol abuse in the United States; describe the common stigmata of acute and chronic drug/alcohol abuse seen at autopsy; discuss mechanisms of death related to various drugs; and more importantly, engage in a candid discussion about the difficulties of prosecuting these cases, from both a pathologist's and toxicologist's perspective.

Biography

Dr. Harrison is an Assistant Professor of Pathology at Atrium Health Wake Forest Baptist Medical Center and is board certified in Anatomic, Forensic, and Neuropathology. He grew up in rural North Carolina in Granville County and graduated valedictorian from J.F. Webb School of Health and Life Sciences in 2006. He subsequently attended Campbell University, graduating summa cum laude with a BS in Biochemistry and Chemistry in 2010. He received his MD from Wake Forest School of Medicine while on a full tuition scholarship and then completed his residency in Anatomic Pathology at Duke University Medical Center. While at Duke he developed a strong interest in neurodegenerative disorders and pursued fellowship training in Neuropathology under the mentorship of Dr. Christine Hulette. He returned to Wake Forest in 2019 where he completed a fellowship in Forensic Pathology and was hired on as a faculty member in 2020. Currently he practices forensic pathology, performing both adult and pediatric hospital and medicolegal autopsies. He is also an experimental neuropathologist, where he acts as the director of the Neuropathology Core for the Wake Forest Alzheimer's Disease Research Center. His clinical interests include pediatric death investigations, child abuse, and traumatic head injuries. His research interests focus on brain banking, metabolic risk factors for the development of dementia, and the use of non-human primate models to study neurodegeneration. Dr. Harrison resides in Clemmons and enjoys spending time in western NC with his wife, Jessica, and two children, Emma and Benjamin.

Candice Lanham | Assistant Special Agent in Charge, NCSBI

Double Homicide Blunt-Force Trauma

After going cold for approximately a year and a half, a DNA swab from the kitchen sink yielded a potential suspect in a double homicide of two brothers who were found beaten to death in their home one summer afternoon. Multiple crime scene processes, searches and bloodstain pattern analysis gave investigators an idea of what possibly occurred during the brutal beating. Due to the pending court action of this case, times, location, defendant name and victim's names will be omitted during presentation.

Biography

Assistant Special Agent in Charge Candice Lanham of the North Carolina State Bureau of Investigation Crime Scene Unit has worked in the Crime Scene field since October 2015. ASAC Lanham began her career at Franklin County Sheriff's Office as a City County Bureau of Identification (CCBI) Detective. At Franklin County Sheriff's Office she processed multiple crime scenes from breaking and entering/larceny cases to homicides. In July 2018, ASAC Lanham began at the NCSBI as a Special Agent in the Capital District working criminal cases and crime scene investigations. In 2021, the Crime Scene Unit was formed at the NCSBI and ASAC Lanham was promoted in July 2022. ASAC Lanham is a Certified Senior Crime Scene Analyst with the IAI and also a board member with the Association for Crime Scene Reconstruction (ACSR). ASAC Lanham has worked multiple victim homicides, officer involved shootings, and currently specializes in crime scene reconstruction.

John Vanderkolk | Consultant in Forensic Comparative Science, Unique Forensics LLC

Working the James Parsons Ohio Innocence Project Case and the Lana Canen/Andrew Royer Indiana Cases

This presentation will describe the homicide, investigation, trial, and the forensic science examinations, reports, and testimony in Ohio's James Parsons case. Then, many years later, the Ohio Innocence Project (OIP) became involved. The resulting OIP activities, investigations, court challenges, and court decision will be discussed. Also, the post-conviction murder exonerations of Lana Canen and Andrew Royer will be discussed. An erroneous latent print identification led to the convictions and later exonerations. Canen spent over 8 years in prison and Royer spent over 17 years in prison.

Biography

John R. Vanderkolk graduated from Indiana University in 1979 with a BA in forensic studies and psychology. He became an Indiana State Police (ISP) trooper in 1979 and a crime scene technician in 1983. In 1984 he was trained in the disciplines of latent print, shoe/tire print, firearm/tool mark, and fracture/physical comparative examinations. He was promoted to laboratory manager in 1996, retired as a police officer in 2005, was rehired as a civilian, and retired in 2020 as the manager at the ISP Lab, Fort Wayne. He then worked as a Senior Forensics Advisor within the U.S. Department of State-INL from 2020-2022. John has provided many lectures and workshops related to forensic comparative science for many international or regional seminars, criminal justice agencies, and universities in the U.S., Canada, United Kingdom, the Netherlands, China, Slovakia, India, Singapore, and Panama. Some of his other professional activities include having been a member of the Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST), the NIST/NIJ Expert Working Group on Human Factors in Latent Print Analysis, and the Physics/Pattern Scientific Area Committee for the NIST Organization of Scientific Area Committees (OSAC). Vanderkolk was awarded 'Distinguished Member' in the International Association for Identification (IAI) and was a member of its Standardization II committee. He is currently a member of the editorial board for the IAI's Journal of Forensic Identification. Vanderkolk has authored or co-authored numerous journal articles on topics related to forensic comparative science, plus he authored the 'Examination Process' chapter of The Fingerprint Sourcebook and the book, Forensic Comparative Science – Qualitative Quantitative Source Determination of Unique Impressions, Images, and Objects. He has been collaborating with Dr. Tom Busey of Indiana University Department of Psychological and Brain Sciences since 2002 studying expertise in latent print examiners. He has been collaborating with Dr. Ashraf Bastawros of Iowa State University on fractured metal examinations. Plus, he was a consultant for the US Department of Justice, Office of the Inspector General, reference the erroneous determination that Brandon Mayfield was the source of a fingerprint in the 2004 Madrid terrorist train bombing case.

Dr. Rebecca George | Instructor of Anthropology and the Assistant Director of Forensic Anthropology Facilities, Western Carolina University

Dr. Kaleigh Best | Assistant Professor, Western Carolina University Utility of Forensic Anthropology within Outdoor Crime Scene Investigations

While forensic anthropology is primarily thought to use skeletal remains to aid the medicolegal system in helping to establish identity through the development of a biological profile, it also can contribute to many other critical aspects of medicolegal investigations.

These include determining the forensic significance of questioned material, recovering and documenting discovered remains, contributing towards possible manner of death, and helping to understand factors impacting a set of remains since their deposition, known as taphonomic factors. This presentation will demonstrate the utility of having forensic anthropologists assist in medicolegal cases in addition to traditional laboratory-based methods by emphasizing the benefits of implementing forensic anthropologists in outdoor forensic casework. As experts in human skeletal material, forensic anthropologists can aid in search and recovery efforts to maximize the collection of human remains, preserving and documenting evidence at the scene, handling of skeletal material, and interpretation of contextual information through taphonomic changes to better understand the perimortem and postmortem events. In addition, attendees of this presentation will be able to examine bones with various taphonomic effects and practice their skills in differentiating human from non-human bone, helping to emphasize the contributions of forensic anthropology to an outdoor medicolegal investigation.

Biography

Dr. Rebecca George is an Instructor of Anthropology and the Assistant Director of Forensic Anthropology Facilities at Western Carolina University (WCU). She is also the editor of the Dental Anthropology Association's journal, *Dental Anthropology*. Dr. George has co-authored publications on the application of dental morphology within forensic anthropological and bioarchaeological contexts, including an invited book chapter for the Universidad Nacional Autónoma de México in Mexico City. She recently co-authored a publication for the American Anthropological Association's Vital Topics Forum entitled *Cultivating a Socially Conscious, Activist, and Inclusive Forensic Anthropology*. Dr. George's primary forensic anthropological work at present is managing the daily activities and undergraduate volunteers at the Forensic Osteology Research Station (FOREST) at Western Carolina University. She also manages the WCU Forensic Anthropology Program's portion of a research partnership with the Bureau of Alcohol, Tobacco, Firearms, and Explosives on burned human remains.

Biography

Dr. Kaleigh Best is an Assistant Professor at Western Carolina University. In addition to practicing forensic anthropology, she is also a bioarchaeologist and has previous experience as a NAGPRA (Native American Graves Protection and Repatriation Act) analyst and as a state skeletal analyst in Illinois. She also has been a part of numerous cemetery relocations/exhumations. Dr. Best has publications in the *Journal of Forensic Sciences* and the *Midcontinental Journal of Archaeology*.

Brittany D. Summers | Senior Crime Scene Analyst and Supervisor, Salisbury Police Department

The Impact of Direct Contact with Living Victims, Suspects, and First-hand Witnesses on Crime Scene Investigations

Direct contact with (living) victims, suspects and even first-hand witnesses can significantly impact your Crime Scene Investigation vs secondhand information relayed by responding officers.

1. **Obtaining Critical Information:** Direct contact allows investigators to gather crucial information from victims or suspects firsthand. This includes details of the crime, victim and suspect positions within the scene, items the suspect may have handled or touched.

2. Clarification and Verification: Investigators can clarify and verify information obtained from other sources through direct interaction. This helps in ensuring accuracy and completeness of the investigative process.
3. Critical Evidence: Having direct contact with victims and/or suspects can lead to the recovery of critical evidence that could be easily overlooked. Such as, small bruising or injuries, singed hair (should fire be involved), clothing, DNA transfers etc.

I will hopefully be ending this presentation with a case study. I am actively seeking permissions to have this case shared. Case: Home Invasion and attempted sexual assault where I had firsthand contact with the victim and suspect that had a significant forensic impact on the processing of the scene and results of the case.

Biography

Brittany D. Summers is the Senior Crime Scene Analyst over the Crime Scene Unit and Forensic Lab for the Salisbury Police Department in Salisbury, North Carolina. Senior CSI Summers has 15 years of experience in Crime Scene Investigation and is deeply passionate about her work. She has investigated over 300 death scenes in her career as well as testified over 56 times in superior and federal court. Senior CSI Summers has had many accomplishments throughout her career, receiving multiple accommodations and awards for her Forensic Work in fingerprinting, collecting DNA, and identifying suspects. Through her efforts, her work has led to arrests in several cases, including Homicide, Sexual Assault, Robbery, and Burglary, as a result of the forensic evidence she collected and processed. In 2022, she began her journey as an adjunct instructor with the Forsyth Technical Community College Crime Scene Program, where she has led over 60 students in understanding CAD, a program used for Crime Scene Sketching, and learning how to examine crime scenes for Trace Evidence. In 2018, she completed her certification as a Drone Pilot. She has flown drones to document outdoor crime scenes and traffic crashes. She has been instrumental in several highly intense and precarious situations, including aiding in searches for missing persons and children, finding and locating suspects, conducting surveillance missions, and assisting law enforcement with barricaded subjects utilizing drone technology. Senior CSI Summers is deeply passionate about her field of expertise and is a forerunner and leader of crime scene investigation and analysis.

Education & Credentials

- Bachelor of Science Degree, Concentration in Crime Scene (Mountain State University, 2008)
- Drone Piloting License (FAA, 2018)
- Certified Senior Crime Scene Analyst (IAI, 2022)

Latent Print Room Speakers

Eric Ray | Technical Project Leader, IDEMIA

AFIS Accuracy, Search Tips, and Features

Latent print examiners can increase AFIS search accuracy by following best practice recommendations. Understanding recommendations for image calibration, automation, feature placement, enhancements, search parameters and search strategy are key to efficient and accurate searches. Research from NIST and the FBI can assist examiners and units when choosing candidate lists length and other search parameters. This lecture will summarize best practice recommendations for AFIS searches of IDEMIA databases, discuss Case AFIS and other new features, and explore future technology that agencies should consider integrating in the future.

The Exclusion Problem and AFIS Solutions

Every black-box accuracy study on latent print examinations, including recent palm print research, clearly demonstrates a relatively high error rate for Exclusion conclusions. While Exclusion is typically the most utilized conclusion, the vast majority of training time focuses on Identification. Additionally, many agencies do not have protocols for verification of the Exclusion conclusion. This lecture will discuss how examiners can improve their accuracy and efficiency when reaching this conclusion through an Exclusion-centric search strategy and the use of AFIS technology.

Biography

Eric Ray is a Certified Latent Print Examiner working for IDEMIA as a Subject Matter Expert to recommend improvements, develop training, and interact with customers. As a member of the IAI, Eric is on the Editorial Board of the JFI and chaired the Special Committee on Latent Print Probability Modeling. He is a member of the OSAC Friction Ridge Subcommittee developing standards for the field. Eric has developed and presented lectures, workshops, and training classes on several topics, especially on Reducing Erroneous Exclusion. In his spare time, he also co-hosts the Double Loop Podcast with over 250 episodes.

Ruth Crowley| Physical Scientist/Forensic Examiner, FBI - Latent Print Operations Unit

Subjectivity and ACE - Navigating the Gray Area of Fingerprint Comparison

Most fingerprint examiners follow the steps of ACE (Analysis, Comparison, and Evaluation) when comparing fingerprints. So why do examiners sometimes reach different conclusions? This research review explores how subjectivity influences each step of ACE and possible applications of our understanding on why examiners disagree.

Biography

Ruth Crowley has been employed in the FBI Laboratory's Latent Print Operations Unit for three years. She began her career with the FBI as an intern while earning her B.S. in Forensic Science Technology from Alfred State College.

Lindsey D'Amour| Forensic Scientist III, NC State Crime Laboratory Preparing for an Accreditation Assessment from a Quality System and Latent Print Perspective

Whether it's your initial accreditation assessment, a surveillance visit, or a full-on reaccreditation there are many things to consider when preparing your laboratory for a visit from the accrediting body. This presentation will cover a couple of the topics that you should address before the assessors are knocking on your laboratory door and a few of the "hot zone" standards when it comes to Latent Prints.

Impression Evidence Range of Conclusions: A Validation Study

In 2020 the Latent Evidence Section of the North Carolina State Crime Laboratory underwent a validation study to expand their accepted impression evidence range of conclusions. In accordance with the SCL's Quality Assurance policies and procedures this study examined the expansion from the currently in use three-bin range of conclusions to a six-bin range of conclusions. This presentation will discuss the design of the validation study, the implementation and data collection phase, and the final results.

Biography

Lindsey D'Amour is a Special Agent-Forensic Scientist with the North Carolina State Crime Laboratory. She holds a Bachelor of Science degree in Medical Biology from the University of

New England and a Master of Science degree in Forensic Science from the University of New Haven. During her twenty years with the State Crime Lab Lindsey spent 17 years in the Latent Evidence Section where she completed Latent Print and Impression Evidence casework. During that time Lindsey served for many years as the Impression Evidence Technical Leader. In 2021 Lindsey made the jump from Latent Evidence to the State Crime Lab's Quality Assurance Section. Her current duties include conducting ISO 17025 internal and external audits, managing the Laboratory System's proficiency test and calibration programs, as well as assisting in the day-to-day operation of the laboratory's quality assurance program.

Richard Fenrich | CEO, Identification International, Inc. ("i3")

Advances in Poroscopy

We all have ideas about what poroscopy "is." This presentation will touch upon poroscopy's history, use cases, and limitations. In seeking to understand poroscopy's limited use, i3 will discuss technical advances which may enable much more common use. The presentation will contain open forum components so poroscopy experiences can be exchanged between attendees. Through this approach, i3 ultimately aims to deliver working poroscopy solutions.

Syllabus

1. History of poroscopy
 - a. Discovery of the use for identification
 - b. biological basis
 - c. Pore characteristics
 - d. Bases for identification
 - c. Capture methods
 - i. ink and paper
 - ii. digital prism-based systems
 - iii. other digital methods
2. Reasons to add pores into identification paradigm
 - a. Frequency of features
 - b. Database to latent matching potential
3. Interactive discussion of poroscopy experiences
4. Reasons for nominal advancement in poroscopy
 - a. larger scale Galtons
 - b. Pores not reliable
5. Solving the reliability problem
 - a. Causes of unreliability
 - b. View holistically given the capture environment
 - c. Approaches to solving the problems
 - d. Demonstration of pore location in existing livescan
 - e. Demonstration of pore location in new age livescan
6. Interactive discussion of possible uses
7. What the future could hold in store for poroscopy
 - a. Galtons plus pores
 - b. Pore only matching
 - c. Application to latents/patents

Biography

Mr. Richard Fenrich earned master's degrees in mathematics and computer science at The Ohio State University and SUNY at Buffalo, respectively. Upon graduation from SUNY at Buffalo in 1989, Fenrich worked for a SUNY at Buffalo research group named CEDAR. As a senior research scientist, he worked on projects and algorithms to perform advanced image processing for reading handwritten and machine printed addresses from mail being scanned at 120 linear inches a second. Success in these research efforts led Fenrich to start his first company, Exegetics, Incorporated. Exegetics fielded the world's first multi-indicia reading software for reading the amount paid for a piece of postal mail. Systems were fielded by Bell & Howell across the US for the US Postal Service. These efforts led into creation of a document management system named inVize DA which Exegetics subsequently sold across the southeastern United States. Because our major customer base was law enforcement, Exegetics built the world's first single connection livescan system and Fenrich then started a new company named Identification International, Inc. (i3) based upon this new livescan system. Fenrich led i3 to a couple of other world-wide firsts: a. the first MIL SPEC livescan and the first FBI certified 3D fingerprint scanner. Today, Fenrich looks to enhance i3's leading technology by extending its capability to incorporate high quality imaging and image matching components.

Doreen Huntington | Latent Print Unit Supervisor (Ret.), Guilford County Sheriff's Office

Rebecca Heinrich | Crime Lab Manager, Durham Police Department

Steve Williams | Forensic Scientist III - Latent Evidence, NC State Crime Laboratory

Surviving the Voir Dire: Tips for Latent Print Examiners on Navigating the Challenge with Confidence

The voir dire can be a stressful experience. In this presentation, the speakers will explain what a voir dire is and how it works and will also discuss tips and techniques for helping the Latent Print Examiner understand the process and respond with confidence. Being prepared is the first step for minimizing stress and allowing for successful testimony.

Biography

Doreen Huntington recently retired as the Supervisor of the Latent Print Unit for the Guilford County Sheriff's Office. She has been a Certified Latent Print Examiner since 1993. Doreen began her career in law enforcement in 1985 in Ohio with the Cleveland Police Department in tenprint comparison and advanced to latent prints. In 1991, Doreen moved to Wisconsin and became employed through the Wisconsin Department of Justice in the State Crime Lab in Milwaukee. As a Forensic Scientist III, Doreen specialized in Latent Fingerprint Analysis and Footwear Analysis. In 1994, Doreen accepted the position with the Guilford County Sheriff's Office to manage their new AFIS section. Doreen is a Sustaining Active-Life member of the IAI and is currently a member of the IAI's Latent Print Subcommittee. She is a Life Active member and past president of the NCIAl. Doreen implemented and has hosted a Latent Print Examiners meeting for fellow North Carolina examiners since 2007.

Biography

Rebecca Heinrich, CLPE, is the Crime Lab Manager of the Durham Police Department's Forensic Services Division. She started her career in 2001 as a crime scene investigator and latent print examiner at Greensboro PD. In 2006, she continued her career at CCBI in the latent print unit and joined Durham PD in 2019. Rebecca also teaches courses in forensic science and latent prints at Wake Tech Community College.

Biography

Steve Williams began his career with the Greensboro Police Department in 1988. He started in Crime Scene, trained in Latent Prints, was promoted to Crime Scene Supervisor and eventually became the department's Director of Forensic Services. He retired from GPD in 2017 and enjoyed a few months fishing before working for the Guilford County Sheriff's Office as a Forensic Investigator for the Cold Case Homicide Team. He couldn't stay away from latent land, though, and in 2019 accepted a position with the NC State Crime Laboratory in Greensboro where Steve is now a Forensic Scientist III in Latent Evidence. He has been a CLPE since 1997 and was certified as a Senior Crime Scene Analyst (IAI) from 1999-2017. Steve is a Sustaining Active-Life Active Member of the IAI. He is a Life Active member and past president of the NCIAl. Steve helped design the teaching program and instructed nationwide the Forensic Aspects of Missing and Abducted Children.

John Vanderkolk | Consultant in Forensic Comparative Science, Unique Forensics LLC

Garbage Bag Examination

Garbage bags were significant evidence in the Indiana Sandra Hernandez homicide investigation in the early 1990s. This presentation will describe the homicide investigation

and forensic comparative examination of garbage bags. The preparations to examine, report, testify, and rebut a defense witness will be described.

Ranges of Conclusions in Latent Print Examinations Workshop

Should latent print examiners transition from 3 conclusions – Exclusion, Inconclusive, Identification – to an expanded range of conclusions. After conducting training latent print examinations with various ranges of conclusions, examiners will realize some consequences of expanding the ranges of conclusions. Latent print examiners should experience and understand what might happen if their agency decides to expand their ranges of conclusions.

Biography

John R. Vanderkolk graduated from Indiana University in 1979 with a BA in forensic studies and psychology. He became an Indiana State Police (ISP) trooper in 1979 and a crime scene technician in 1983. In 1984 he was trained in the disciplines of latent print, shoe/tire print, firearm/tool mark, and fracture/physical comparative examinations. He was promoted to laboratory manager in 1996, retired as a police officer in 2005, was rehired as a civilian, and retired in 2020 as the manager at the ISP Lab, Fort Wayne. He then worked as a Senior Forensics Advisor within the U.S. Department of State-INL from 2020-2022. John has provided many lectures and workshops related to forensic comparative science for many international or regional seminars, criminal justice agencies, and universities in the U.S., Canada, United Kingdom, the Netherlands, China, Slovakia, India, Singapore, and Panama. Some of his other professional activities include having been a member of the Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST), the NIST/NIJ Expert Working Group on Human Factors in Latent Print Analysis, and the Physics/Pattern Scientific Area Committee for the NIST Organization of Scientific Area Committees (OSAC). Vanderkolk was awarded 'Distinguished Member' in the International Association for Identification (IAI) and was a member of its Standardization II committee. He is currently a member of the editorial board for the IAI's Journal of Forensic Identification. Vanderkolk has authored or co-authored numerous journal articles on topics related to forensic comparative science, plus he authored the 'Examination Process' chapter of The Fingerprint Sourcebook and the book, Forensic Comparative Science – Qualitative Quantitative Source Determination of Unique Impressions, Images, and Objects. He has been collaborating with Dr. Tom Busey of Indiana University Department of Psychological and Brain Sciences since 2002 studying expertise in latent print examiners. He has been collaborating with Dr. Ashraf Bastawros of Iowa State University on fractured metal examinations. Plus, he was a consultant for the US Department of Justice, Office of the Inspector General, reference the erroneous determination that Brandon Mayfield was the source of a fingerprint in the 2004 Madrid terrorist train bombing case.

Leslie Daugherty | Forensic Scientist III/Technical Leader, NC State Crime Laboratory

Karen Morrow | Latent Print Department Forensic Services Manager, NC State Crime Laboratory

NCSCCL's Internship Latent Print Processing Projects

Over the last three years, the NCSCCL Latent Evidence Section has had the opportunity to have semester interns work on different latent print processing projects that we have constructed for them. They have had to create PowerPoint presentations and present their findings to the NCSCCL Latent Evidence Section. This presentation would showcase their work and findings on certain topics regarding certain latent print processing techniques and

encourage others in the field to do some research of their own.

Biography

Leslie Daugherty is a Forensic Scientist in the Latent Evidence Section of the North Carolina State Crime Laboratory. She has been with the Crime Lab since 2008. Leslie has been the Latent Print Training Coordinator since 2016 and is the current Technical Leader for the Latent Print Discipline.

Biography

Karen Morrow is the Forensic Science Manager of Latent Evidence Section of the NCSCL.

Specialized/Small Room Speakers

Alexis Dodson | Technical Sales Specialist, Foster + Freeman

CSEye Spy: Forensic Escape Room

The crime scene plays host to an abundance of potential evidence just waiting to be unraveled. As forensic technology has developed over the decades, not only has our ability to detect more evidence increased, but so to have our understandings of activity-level interactions. With the wealth of forensic traces left at the scene, it is crucial that examiners act methodically, rationally and scientifically, when conducting their investigations. The speed and ease at which evidence can be recovered and interpreted becomes even more crucial in our attempts to reduce the time from event occurrence, to suspect apprehension. The true combined value of our expertise, the technology we use and the conclusions we reach, cannot be underestimated in a world where every second counts. This workshop will be unlike any other; a truly hands-on experience where participants will be required to work collaboratively and efficiently in an effort to piece together the clues from the crime scene and reprimand the suspect(s) before time runs out. A range of equipment will be provided, and participants must decide which technologies are most likely to help them in their quest to identify the perpetrator(s) before they make their planned getaway. Our criminal(s) have clearly been watching some CSI shows as they have gone to meticulous lengths to cover up their actions but remember "every contact leaves a trace".

Biography

Alexis Dodson has been working with Foster + Freeman as a Technical Sales Specialist since June 2021, whose duties require to be knowledgeable in crime scene, fingerprinting, trace evidence, and questioned document forensic equipment. She received her Bachelor of Science degree in Forensic and Investigative Science with a minor in Psychology at West Virginia University in May 2021. She also received formal certificates from West Virginia University including a 40-Hour Basic Bloodstain Pattern Analysis Course and 40-Hours of Science & Technology of Fingerprinting. Her role at Foster + Freeman includes sales for various company products. She has presented workshops and lectures on both crime scene and fingerprint topics at the IAI and many local IAI divisions.

Matt Ridings | Lieutenant, Guardian Strength and Wellness

Self-Care and Burnout Prevention for First Responders

This presentation is brought to you by Guardian Strength & Wellness and covers information related to wellness, mental health, and ways to practice self-care, in addition to an emphasis on these topics in relation to individuals in first responder or adjacent careers. Some techniques covered are exercising, creating boundaries, mindfulness, meditation, sleep, yoga, spirituality, goal setting, and resilience training. Other topics include identifying signs of stress & how to manage it, compassion fatigue, what burnout really is, and how to recognize the signs of burnout plus pathways to fight it. This presentation utilizes a unique approach by

having the participants complete a self-care assessment and the information is delivered in lecture and a PowerPoint presentation.

Biography

Lieutenant Matt Ridings is a married father of two with over 23 years of law enforcement experience, he is currently serving as his agency's supervisor for the Vice/Narcotics Division and is assigned to the Forsyth County Drug Task Force. He has held positions as a Telecommunicator, Patrol Officer, School Resource Officer, Field Training Officer, Honor Guard, Traffic Team Officer, SWAT Operator, SWAT Team Leader, SWAT Team Commander, and Patrol Sergeant. In 2022 he was certified as a Peer Support Officer through the Law Enforcement Alliance for Peer Support (LEAPS). In 2024, Matt developed his agency's first Peer Support Team which is now active and operational. He holds a bachelor's degree in criminal justice from American Military University, is a specialized instructor for Hazmat and Explosives, & holds several certificates in specialized areas.

Amanda Holowaty | Latent Print Examiner, Durham Police

Department

Rebecca Heinrich | Crime Lab Manager, Durham Police Department

Come play The Family Feud – LATENT PRINT STYLE!

Join us in this fun and interactive activity where latent print topics will be used to create a learning adventure. In this activity, we will be reviewing various subjects in the latent print discipline to assist attendees with information for certification preparation, courtroom testimony, or just for improvement of general knowledge. This teambuilding exercise is not only intended to increase knowledge-based information, but also provides a great opportunity to network with professionals outside your agency. Get your buzzer fingers ready and join in as a Feud participant! Or come cheer on your colleagues as they play!

Biography

Amanda Holowaty, CLPE, is the supervisor of the latent print unit at the Durham Police Department. She previously worked as a crime scene investigator at the Wilmington Police Department, where she found a passion for latent prints. She has been a full-time LPE at Durham since 2017.

Biography

Rebecca Heinrich, CLPE, is the Crime Lab Manager of the Durham Police Department's Forensic Services Division. She started her career in 2001 as a crime scene investigator and latent print examiner at Greensboro PD. In 2006, she continued her career at CCBI in the latent print unit and joined Durham PD in 2019. Rebecca also teaches courses in forensic science and latent prints at Wake Tech Community College.

Amanda Page | Crime Scene Supervisor, Grand Prairie Police

Department

Co-Workers Today, Supervisor Tomorrow

This presentation confronts the challenges of promoting within a unit over your peers and the general roadblocks that a new civilian Forensic Supervisor faces within a law enforcement organization.

Biography

Amanda has a Bachelor of Science in Forensic Science from the University of Southern Mississippi and is a certified Crime Scene Analyst with the IAI, certified in NIBIN Acquisition with ATF, and certified by the State of Texas in ULW. Amanda started her career in Gulfport,

Mississippi as a Crime Scene Investigator and then eventually moved to Grand Prairie, TX where she is currently the supervisor of the Crime Scene Unit. Amanda has approximately 14 years of experience in Crime Scene Investigation. Amanda specializes in crime scene investigation, latent print comparison, and NIBIN acquisition.

Teia Poulin | Licensed Clinical Mental Health Counselor, Cary Psychology

Understanding Trauma: “What you don’t know can hurt you”

Teia’s goal is to help you understand how the vicarious trauma, accumulation of stress, critical incidents, and your first responder organization change how you see and experience the world. Unfortunately, the journey through your career gradually affects your physical, emotional, cognitive, relational, behavioral, and spiritual well-being. Increasing your awareness and understanding of how you're impacted can help you take steps to improve your overall health, coping, and self-regulation skills. If you want to improve, you have to do better, and it all begins with being self-aware of how the challenging experiences of the job affect you, your health, and your loved ones.

Biography

With 35 years of experience in the first responder community, specializing in critical incidents and trauma, Teia is uniquely prepared to support law enforcement and public safety clients. After serving in the Navy, she worked as an Emergency Medical Technician, a Raleigh Police Officer, and a North Carolina State Trooper. She is now a therapist serving the first responder community. Teia was a founding member of the State Highway Patrol's peer support team and the North Carolina Law Enforcement Assistance Program. She is a certified instructor for the State of North Carolina Criminal Justice Training and Education Standards and with the International Critical Incident Stress Foundation. Teia has direct response experience with numerous large-scale disasters and traumatic events, including the mass shootings at Virginia Tech University, the Carthage Nursing Home, Raleigh Hedingham, and multiple line-of-duty deaths.

David Alford | CSI Instructor, Sirchie

Polly Klaas Kidnapping/Murder - The Evidence Links the Scenes

Friday night, October 1, 1993, 12-year-old Polly Klaas was kidnapped from her home in Petaluma, CA, while having a sleepover with two of her friends. A large rough-looking man with a large knife appeared at her bedroom door. He tied the wrists and blindfolded the three girls. After threatening them, he took Polly Klass from her home. This kidnapping was extremely shocking to this quiet community. It drove them to take immediate action to find her and resulted in catching the attention of the national media throughout the case. Her body was recovered from a rural site approximately 2 months later. The Petaluma PD and FBI worked closely together from the first night to the conclusion of the trial. The newly formed FBI Evidence Response Team (ERT) handled most of the crime scene searches. The ERT conducted a very thorough search of the property using traditional equipment/supplies as well as an electrostatic dust print lifter (ESDP), an Alternate Light Source (ALS) and florescent powders. The ESDP and ALS resulting in collecting carpet fibers from the perpetrator’s car and locating a partial palm print which ultimately identified the kidnapper/murderer. This presentation will graphically show how evidence from 6 scenes/sources all worked together to connect the scenes and prove the guilt of Richard Allen Davis as the murderer. This case will be presented by David Alford, one of the original 13 founding members of the FBI ERT. He responded to the searches and will present this

case from a crime scene perspective. David will also address the community's role and highlight investigative advances brought about by this case. A book has been written about this case, "In the Light of All Darkness" by Kim Cross, a New York Times bestselling author. It is the very compelling story of the victims, the Petaluma community's involvement, the investigation by the Petaluma PD and FBI, the story of the origin of the FBI ERT and the extensive work of the ERT in developing the evidence to link the scenes together and the trial.

Biography

David Alford is a retired FBI Special Agent and Crime Scene Instructor with Sirchie. He has 21 years of experience investigating violent crimes, terrorism and other cases. He was one of the founding members of the FBI Evidence Response Team (ERT) and conducted crime scene searches on domestic and international violent crimes and bombings, including the Polly Klaas kidnaping and murder, the Unabomber's cabin and the 9/11 Pentagon scene. He worked in the Denver and San Francisco field offices and completed his career at Quantico in the FBI Lab ERT Unit. During the 6 years in the FBI Lab, he was primarily responsible for overseeing and teaching basic and advanced crime scene courses throughout the US and many foreign countries. In the 6 years before the FBI, he was a Forensic Serologist, Hair and Fibers Examiner and Bloodstain Pattern Analyst for the Kentucky State Police Crime Lab. After retirement from the FBI in December 2005, David taught crime scene courses around the world on behalf of the FBI and US State Department including many Soviet bloc countries. David has been with Sirchie since January 2006. Originally, he was an instructor and sales representative for Sirchie's RUVIS and ALS products before becoming one of Sirchie's crime scene instructors for classes taught at Sirchie and throughout the US. David loves teaching and providing an opportunity for students to learn through hands-on training. In 1975, David received a B.S. degree in Biology with a minor in Chemistry from Western Kentucky University. After becoming a Forensic Serologist, David received basic and advanced training in Serology at the FBI Lab. David has also been trained by the FBI in courses such as their Instructor Development Course, Instructor Course for International Training, basic and advanced courses in many crime scene disciplines such as Advanced Photography. He completed a Forensic Light Source course taught in Ottawa by the Royal Canadian Mounted Police and bloodstain pattern courses taught by nationally recognized and respected Bloodstain Pattern Analysts. David has been married for over forty-seven years to a very loving and supportive wife. They have two grown sons, a daughter-in-law and granddaughters. He is a private pilot, enjoys sailing and woodworking, but has had very little time in recent years for these hobbies. He still continues to camp, kayak and enjoy many outdoor activities. David is also very active in the church where he worships.