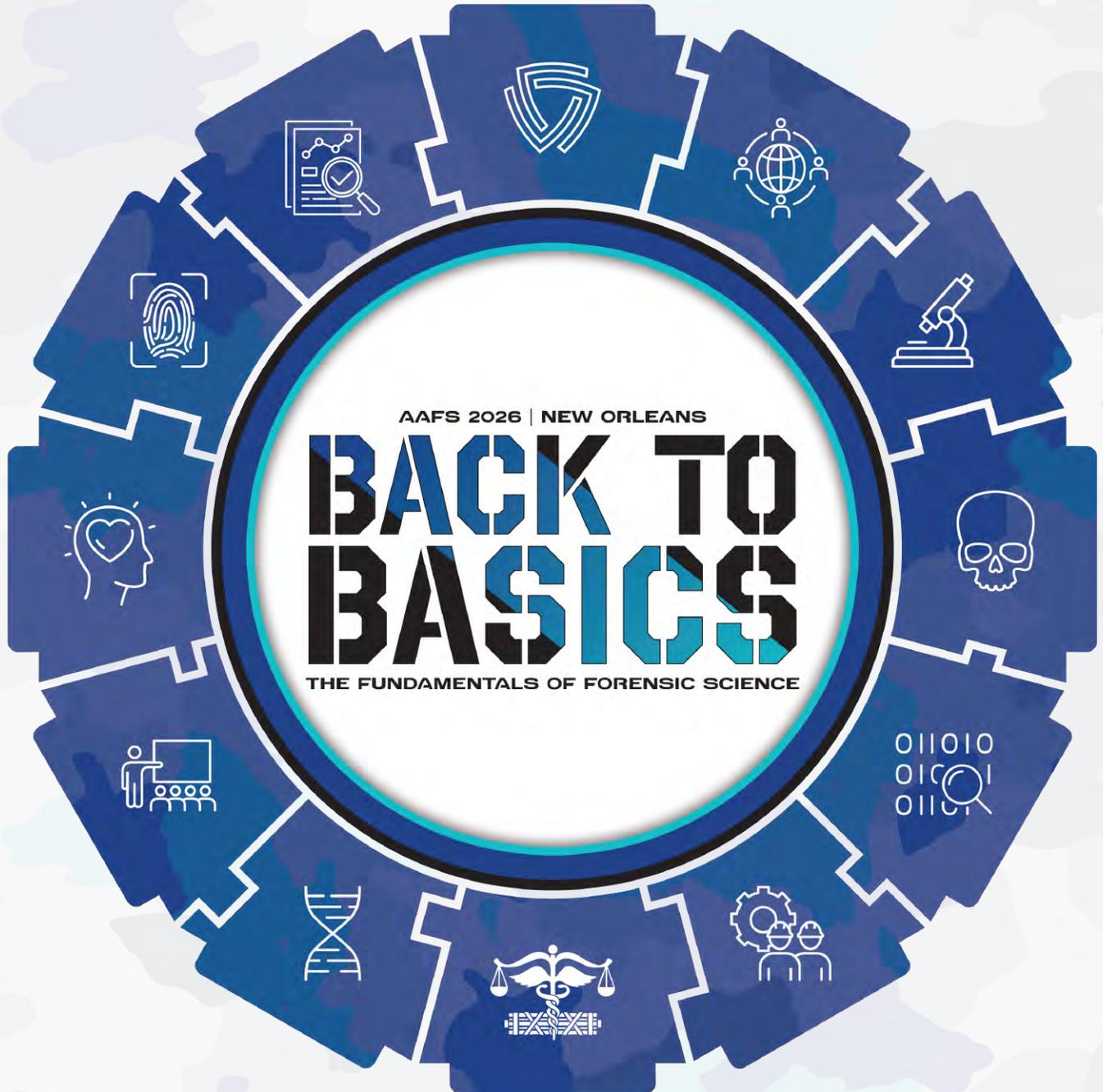


# PROGRAM



February 9-14, 2026  
New Orleans Ernest N Morial Convention Center

#AAFS2026



## JFS MISSION STATEMENT

To advance forensic science research, education, and practice by publishing peer-reviewed articles of the highest quality and impact.

## JFS METRICS

Impact Factor: **1.8**

CiteScore: **3.8**

Accepts Ratio: **39.0%**



**JFS**  
JOURNAL OF  
FORENSIC SCIENCES

# 855,900+ ARTICLE READS IN 2025

JFS readership increased 8% in 2025  
47% readership growth since 2020

Increase the Visibility of Your Research by Publishing in JFS

# 37

days average from  
submission to  
first decision

# 16

days average from  
acceptance to  
online publication

# JOURNAL OF FORENSIC SCIENCES

THE OFFICIAL PUBLICATION OF THE AAFS

# WELCOME LETTER

On behalf of the American Academy of Forensic Sciences, it is my great pleasure to welcome you to New Orleans, LA, for the 78th AAFS Annual Scientific Conference. We are excited to gather in this vibrant and historic city as we come together around this year's theme, "**Back to Basics: The Fundamentals of Forensic Science.**" This year's conference schedule promises to be amazing and insightful with 35 offered Workshops, five (5) Lunches, six (6) Case Breaks, and three (3) Professional Deep Dives, not to mention the 1,000+ section-specific scientific sessions and numerous Special Sessions.

At this time of rapid technological advancement, evolving legal standards, and increasing public scrutiny, this conference invites us to pause and focus on the foundational principles that define forensic science: scientific rigor, methodological integrity, ethical responsibility, and a steadfast commitment to truth. By returning to these fundamentals, we strengthen the reliability of our disciplines, enhance interdisciplinary collaboration, and ensure that forensic science continues to serve justice with accuracy and credibility.

Equally important, going "back to basics" requires us to recognize that the foundation of forensic science is its people. Across all forensic disciplines, practitioners are routinely exposed to traumatic material and high-stakes decision-making. Vicarious trauma, secondary traumatic stress, and burnout are real and growing challenges that affect individual well-being, professional performance, and the sustainability of our workforce. Addressing wellness is not ancillary to our mission—it is fundamental to maintaining excellence, objectivity, and resilience in forensic practice.

Throughout the week, you will have opportunities to engage with a thought-provoking Plenary Session, Scientific Presentations, Workshops, and discussions that span the full breadth of forensic disciplines. Whether you are a seasoned practitioner, researcher, educator, or student, we hope this program encourages reflection on core practices while inspiring innovation grounded in sound science.

New Orleans provides a fitting backdrop for this important work—a city rich in history, resilience, and culture. We encourage you to take time to experience its unique traditions, music, cuisine, and hospitality while reconnecting with colleagues and building new professional relationships. Our conference is being held during Mardi Gras in the week leading up to Fat Tuesday, with parades and live music in the streets—you won't want to miss witnessing or taking part in this unique celebration!

Thank you all for your dedication to forensic science and for your continued contributions to the AAFS community. And an overwhelming THANK YOU to the Program Committee and AAFS Staff for their hours of dedication in bringing this conference to life. Together with the hundreds of presenters, many volunteers, and our sponsors and exhibitors, this conference has the makings of a successful gathering. We look forward to a meaningful, engaging, and memorable conference as we return—together—to the basics that unite and strengthen our profession.

Welcome to AAFS and welcome to New Orleans—Laissez Les Bons Temps Rouler!



**Joanna L. Collins, MFS**  
**2025-26 AAFS President**

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# OFFICERS AND OFFICIALS

## Officers

*President:* Joanna Collins, MFS  
*President-Elect:* James Caruso, MD  
*Past President:* Christopher Thompson, MD  
*Vice President:* Sarah Kerrigan, PhD  
*Treasurer:* Marcus Rogers, PhD  
*Secretary:* Linton Mohammed, PhD

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*Anthropology:* Gregory Berg, PhD  
*Criminalistics:* Vincent Desiderio, MS  
*Digital & Multimedia Sciences:* Jason Paroff, JD  
*Engineering & Applied Sciences:* Helmut Brosz, BASc  
*Forensic Nursing Science:* Jamie Ferrell, MBA  
*General:* Claire Shepard, MS  
*Jurisprudence:* Pamela King, JD  
*Odontology:* Raymond Miller, DDS  
*Pathology/Biology:* Chris Milroy, MD, LLB  
*Psychiatry & Behavioral Science:* Karen Rosenbaum, MD  
*Questioned Documents:* Samiah Ibrahim, BSc  
*Toxicology:* Dan Anderson, MS

## Section Officers

### Anthropology

*Chair:* Teresa Wilson, PhD  
*Secretary:* Jaymelee Kim, PhD

### Criminalistics

*Chair:* Agnes Winokur, MS  
*Secretary:* Lynn Schneeweis, MS

### Digital & Multimedia Sciences

*Chair:* Joseph Levi White, PhD  
*Secretary:* Josh Brunty, ScD

### Engineering & Applied Sciences

*Chair:* Carole Chaski, PhD  
*Secretary:* David Pienkowski, PhD

### Forensic Nursing Science

*Chair:* Amy Carney, PhD  
*Secretary:* Janean Fossum, BSN, RN

### General

*Chair:* Gina Londino-Smolar, MS, EdD  
*Secretary:* Erin Worrell, BSc

### Jurisprudence

*Chair:* Gary McDonald, JD  
*Secretary:* J.D. Schmid, JD

### Odontology

*Chair:* Denise Murmann, DDS  
*Secretary:* Phyliss Ho, DDS

### Pathology/Biology

*Chair:* Lavinia Iancu, PhD  
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### Psychiatry & Behavioral Science

*Chair:* Giuseppe Troccoli, MD  
*Secretary:* Corina Freitas, MD, MSc, MBA

### Questioned Documents

*Chair:* Kevin Kulbacki, MSFS  
*Secretary:* Tobin Tanaka, BSc

### Toxicology

*Chair:* Dayong Lee, PhD  
*Secretary:* Erin Karschner, PhD

## 2026 Program Committee

<i>Program Chair:</i>	Claire Shepard, MS	<i>YFSF Representative:</i>	Emily Rue, PhD
<i>Program Co-Chair:</i>	Kathryn Pinneri, MD	<i>Anthropology:</i>	Rebecca Wilson-Taylor, PhD
<i>Plenary Session:</i>	Marla Carroll, BS		MariaTeresa A. Tersigni-Tarrant, PhD
	Edward Mazuchowski, MD, PhD	<i>Criminalistics:</i>	Tiffany Rodriguez, MS
<i>Case Break Sessions:</i>	Alex Krotulski, PhD		Andrew Schweighardt, PhD
	Gary McDonald, JD	<i>Digital &amp; Multimedia Sciences:</i>	Christina Malone, MSFS
<i>Deep Dive Sessions:</i>	Erin Koester, MS		Yong Guan, PhD
	Peter, Collins, MD	<i>Engineering &amp; Applied Sciences:</i>	Kurt Weiss, MS
<i>Poster Sessions:</i>	Amy Carney, PhD	<i>Forensic Nursing Science:</i>	Jessica Volz, DNP
	Michala Stock, PhD		Michelle Patch, PhD
<i>Workshops:</i>	Gina Londino-Smolar, MS, EdD	<i>General:</i>	Robert Hunkeler, MFS
	Erin Worrell, BSc		Caitlin Porterfield, MS
<i>Luncheon Seminars:</i>	Jason Paroff, JD	<i>Jurisprudence:</i>	Clinton Hughes, JD
	Tiffany Rodriguez, MS		Sarah Sanger, JD Khlea
<i>Last Word Society:</i>	Kenneth Melson, JD	<i>Odontology:</i>	Sumani, DMD Hannah
	Carla Noziglia, MS	<i>Pathology/Biology:</i>	Jarvis, MRCS
<i>Bring Your Own Slides:</i>	J.C.U. Downs, MD	<i>Psychiatry &amp; Behavioral Science:</i>	George Annas, MD, MPH
	Michael Rieders, PhD		Erica Baer, PhD
<i>Student Academy:</i>	Ginesse Listi, PhD	<i>Questioned Documents:</i>	Mark Goff, BA
	Kelly Knight, MS		Keelie Johnson, BA
<i>Interdisciplinary Symposium:</i>	Katharine Pope, MA	<i>Toxicology:</i>	Svante Vikingsson, PhD
	Laura Labay, PhD		Curt Harper, PhD
<i>Local Arrangements:</i>	Gina Hart, MA		

# GENERAL INFORMATION

## Registration Desk Hours

Sunday	February 8	1:00 pm - 5:00 pm
Monday	February 9	6:45 am - 5:00 pm
Tuesday	February 10	6:45 am - 6:00 pm
Wednesday	February 11	6:45 am - 5:00 pm
Thursday	February 12	6:45 am - 5:00 pm
Friday	February 13	6:45 am - 4:00 pm

## Exhibit Hall Hours

Wednesday	February 11	11:30 am - 4:00 pm
Thursday	February 12	9:00 am - 2:00 pm
AAFS Reception	(Exhibits Open)	6:00 pm - 8:00 pm
Friday	February 13	9:00 am - 1:00 pm

All times are in the U.S. Central Time Zone

**Media Statement:** The American Academy of Forensic Sciences (AAFS) does not comment on forensic cases or medicolegal investigations. Media releases will be issued by the AAFS Board of Directors only in response to matters deemed pertinent to the business of the Academy. The sitting AAFS President is the only member of the Academy authorized to provide comment on behalf of the Academy. Comments, views, and opinions expressed by all other members of the Academy reflect the comments, views, and opinions of the individual solely.

**Registrant Minimum Age:** All registrants and presenters at the AAFS Annual Scientific Conference must be at least 18 years old at the time of the conference.

**Lost Badge Policy:** Lost, misplaced, stolen, or forgotten badges will incur a replacement fee equal to the original purchase amount of your registration. If your badge was complimentary, the fee will be the current, on-site rate.

**Author Information:** The *Journal of Forensic Sciences* encourages authors to submit previously unpublished reports and papers presented at the AAFS annual conference. For full instructions on manuscript preparation, consult the Information for Authors available at: <https://www.aafs.org/resources/journal-of-forensic-sciences/information-for-authors/>.

Manuscripts must be submitted electronically via the *Journal of Forensic Sciences* Manuscript Central site: <http://mc.manuscriptcentral.com/jofs>. For questions, please contact: [jfs.editor@att.net](mailto:jfs.editor@att.net).

### Reminders:

- Video and/or audio recording of any session(s) or parts thereof is not permitted without prior approval from the AAFS.
- English is the official language of the AAFS and its meetings; neither oral nor written translations will be provided.
- Although precautions are taken to prevent schedule changes, speakers and program schedules may change due to unforeseen circumstances.
- As a courtesy to others, please silence your cell phone when attending the sessions.
- The AAFS has a zero-tolerance policy for discrimination or harassment of any kind, including bullying, offensive language, inappropriate gestures, acts of violence, or any other form of harassment. We also require that you refrain from any disruptive behavior that undermines our constructive and inclusive environment. In digital interactions, carefully consider the potential impact of sharing sensitive or triggering content. Be mindful of cultural differences and diverse perspectives. Treat others with respect. Any inappropriate behavior during a presentation will not be tolerated and may result in being removed from the session.

## Future AAFS Annual Conferences

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<b>2027 AAFS Annual Conference</b> February 15-20, 2027 Rosen Shingle Creek Convention Center Orlando, FL	<b>2028 AAFS Annual Conference</b> February 21-25, 2028 Caesar's Palace Las Vegas, NV	<b>2029 AAFS Annual Conference</b> February 19-23, 2029 Columbus Convention Center Columbus, OH
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# SEXUAL MISCONDUCT RESOURCES AND INFORMATION

AAFS takes the safety of its meeting attendees seriously and strives to promote a welcoming experience for all. In order to promote a safe environment for meeting attendees, we have resources for meeting attendees about sexual misconduct.

## **What is sexual misconduct?**

Sexual misconduct is an umbrella term that includes different types of sexual violence, including sexual harassment and sexual assault. (<https://www.rainn.org/types-sexual-violence>)

## **What is sexual harassment?**

Sexual harassment includes unwelcome sexual advances, requests for sexual favors, and other verbal or physical harassment of a sexual nature in the workplace or learning environment, according to the Equal Employment Opportunity Commission. ([www.rainn.org/articles/sexual-harassment?gclid=CjwKCAjw2P-KBhByEiwADBYWCqz0g1E4mRjrXf5TN-EQ-JYXo2Q7USO-Yrtu1c9klaUmTmrEtpmsaxoCbiQQAVD\\_BwE](http://www.rainn.org/articles/sexual-harassment?gclid=CjwKCAjw2P-KBhByEiwADBYWCqz0g1E4mRjrXf5TN-EQ-JYXo2Q7USO-Yrtu1c9klaUmTmrEtpmsaxoCbiQQAVD_BwE))

## **What is sexual assault?**

The term sexual assault refers to sexual contact or behavior that occurs without explicit consent of the victim. ([www.rainn.org/articles/sexual-assault](http://www.rainn.org/articles/sexual-assault))

## **What do I do if I experience sexual misconduct during the annual conference?**

- Call 911.
- Call the AAFS “safe person” number below or contact another member of the AAFS staff.
- Locate security personnel at the conference venue.
- Report conduct to the AAFS Ethics Committee.
- Refer to the resources list below.

## **What do I do if I have witnessed sexual misconduct during the annual conference?**

- Talk to the victim/survivor. Encourage them to review this resource page.
- Direct them to the AAFS ‘safe person’ or another member of the AAFS staff.
- Direct them to security personnel at the conference venue.
- If the person is in immediate danger, call 911.

## **Resources:**

AAFS “safe person”: 719-453-1023

New Orleans Crimes Victims’ Resource Center  
<https://www.crimesurvivorsnola.org/>

New Orleans Police Department  
504-658-5523  
<https://nola.gov/next/nopd/home/>

National Sexual Assault Hotline: 1-800-656-4673

National Domestic Violence Hotline: 1-800-799-7233

RAINN

[www.rainn.org](http://www.rainn.org)

Resources include definitions, statistics, crisis line, and crisis chat.

National Sexual Violence Resource Center

[www.nsvrc.org](http://www.nsvrc.org)

Resources for survivors, including definitions, where to get help, and post-assault recovery.

National Domestic Violence Hotline

[www.thehotline.org](http://www.thehotline.org)

Resources include definitions, local resources/legal aid, crisis line, and crisis chat.

*No member or Affiliate of the Academy shall participate in unacceptable behavior at an annual Academy conference, to include times not specifically in session or at gatherings, social or otherwise, not specifically a part of the Academy program. Unacceptable behavior includes, but may not be limited to, harassment; intimidation; discrimination; physical abuse; physical assault, verbal abuse; inappropriate use of nudity or sexual images; threats; stalking; unwanted sexual comments or advances; or derogatory comments related to gender, gender identity and expression, sexual orientation, disability, physical appearance, body size, race, religion, national origin, or political positions.*

# CONFERENCE EXTRAS

## Crime Lab Tour: Jefferson Parish Sheriff's Office

**Monday – February 9 | 1:00 pm**  
**Tuesday – February 10 | 1:00 pm**

Take a peek inside the world-class facility home to the Jefferson Parish Sheriff Office Crime Lab Tour. Their team is opening the doors to allow AAFS attendees a special look at how they operate to support the region. Limited space will be available and tours will be approximately 2 hours. Transportation to/from the facility will be provided and is the preferred way to arrive and depart the facility.

*Special thanks to Laboratory Services Director Elaine Schneida, MS, for partnering with us to offer this special opportunity.*

**Registration is required, and space is limited. Tours are available on a first-come, first-served basis. Be sure to select your preferred tour and time during the registration process once it opens on September 18th.**



## The French Quarter Welcome Tour

**Sunday – February 8 | 6:00 pm - 9:00 pm**

As you stroll along on this tour, you'll learn about the fascinating beginnings of the city that shaped this world-famous neighborhood. Discover the must-see spots in the French Quarter and learn about the history of the "Vieux Carré." Local guides will enlighten you about the best bars, restaurants, and hidden gems to see on your visit. You will be guided on a tour from the mighty Mississippi River to buildings older than our country to present-day curious and unique locales. Understand why people become captivated with this city and keep coming back for more.

Starting location: 815 Toulouse St. New Orleans, LA 70112 (Meet inside the Unique NOLA Tours shop).

***Spots are first come, first served and available during the registration process. Cost includes guided tour.***

## New Orleans' Original True Crime Tour

**Sunday – February 8 | 6:00 pm - 9:00 pm**

Maybe ghost stories don't quite pique your interest, but you have that curiosity about the dark side of humanity. Some of the most terrifying things are what people do to each other, and perhaps you want a glimpse into this corrupt corner of existence. You'll travel on a tour of the sordid details behind New Orleans' dark bloody murders. You'll visit locations in the French Quarter where the echoes of gruesome crimes of murder still cry out. This city, while soulful and charming, has always had a seedy side, from its beginnings of being settled by the dregs of France — people offered to be released from poorhouses and prisons if they boarded ship for Louisiana — to the delinquency and depravity of today, where the unspeakable still happens.

Starting location: 815 Toulouse St. New Orleans, LA 70112 (Meet inside the Unique NOLA Tours shop).

***Spots are first come, first served and available during the registration process. Cost includes guided tour.***

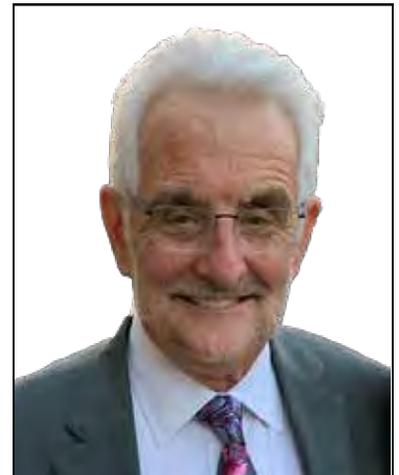
# AWARDS

## R.B.H. Gradwohl Laureate

*Michael A. Peat, PhD*

The Gradwohl Medallion is the highest honor of the American Academy of Forensic Sciences (AAFS) and is the foremost peer award in the forensic sciences. The Gradwohl Medallion is conferred only upon those persons who have attained exceptional distinction in the advancement of the forensic sciences, who have given outstanding service to the AAFS over a long period of time, and who have achieved outstanding recognition in a public position through service to the forensic science profession. We are pleased to announce **Michael A. Peat, PhD**, as the recipient of the 2026 award.

His academic journey began in the United Kingdom and culminated in a PhD in Pharmacology from the University of Utah. This foundation propelled him into a storied career that has shaped the field of forensic science and toxicology at every level. From his early years in the Metropolitan Police Forensic Science Laboratory in London to his professorial roles at the University of Utah and subsequent executive leadership in both private and academic laboratories, Dr. Peat has remained consistently at the forefront of forensic science innovation, rigor, and, importantly, leadership.



Dr. Peat has served on the *Journal of Forensic Sciences (JFS)* Editorial Board for over 35 years — initially as a Member, then as Editor (2000–2017), and currently as Editor-in-Chief. In his editorial leadership roles, Dr. Peat has guided a diverse and accomplished team of Associate Editors and Editorial Board Members from academic and research institutions in publishing peer-reviewed articles of the highest quality and impact. His vision and dedication have advanced every discipline within forensic science and his influence on *JFS* has been profound and far-reaching. Under his editorial leadership, *JFS* has not only grown in scientific rigor and international stature but has also become a beacon of cross-disciplinary forensic scholarship. His partnership with the journal's publisher, Wiley, has greatly enhanced *JFS's* visibility, growth, and international relevance. He has modernized *JFS* by leveraging digital platforms and electronic communication to improve the reach, efficiency, and quality of its content — positioning *JFS* as a globally recognized, multidisciplinary leader in forensic science publishing.

Under Dr. Peat's leadership, *JFS* continues to be the top-rated AAFS membership benefit. It has also become a major revenue contributor to AAFS — ranking third in overall contributions. His restructuring of *JFS* to a professional operation with a dedicated editorial leadership team in 2017 resulted in remarkable growth, with *JFS* revenue to AAFS increasing by 86% together with a 94% growth in readership.

Dr. Peat's contributions to the Academy extend far beyond his role as the Editor-in-Chief of *JFS*. He served on the AAFS Board of Directors and Executive Committee, as well as AAFS President during its 50th Anniversary. In addition, Dr. Peat held numerous leadership roles within both the AAFS and the Toxicology Section and served on multiple Academy-wide committees. His achievements include receiving the Alexander O. Gettler Award in 1998 and the Distinguished Fellow Award in 2006.

Dr. Peat has played a pivotal role in shaping national drug testing policy through work with the Drug Testing Advisory Board for NIDA, the United States Department of Health and Human Services, and the United States Anti-Doping Agency. He contributed to the National Laboratory Certification Program, educating inspectors, and enhancing lab oversight. His perspectives on analytical rigor, laboratory accreditation, and the societal implications of toxicology have helped shape global forensic policy discussions. As a long-time faculty member for the Medical Review Officer Training Course and other national programs, his commitment to professional education and scientific standards is unmatched. His scholarly output includes 40 publications, 19 abstracts, 13 book chapters, 6 book reviews, and over 100 presentations.

Dr. Peat's career is a paragon of excellence in scientific achievement, professional service, and public leadership. His distinguished and multifaceted contributions reflect not only his unparalleled commitment to scientific advancement, integrity, and public service, but also his lasting impact on the Academy and the global forensic science community. Dr. Michael Peat represents the highest ideals embodied by the Gradwohl Medallion — which makes him a standout recipient for this most prestigious recognition.

# AWARDS

## Distinguished Fellow

*Barry K. Logan, PhD*

The American Academy of Forensic Sciences (AAFS) Distinguished Fellow Award is presented to an AAFS Fellow who has given meritorious service to the Academy, the forensic sciences, and to other professional peer group organizations. The second highest award was established in 1990 and is presented at the AAFS Annual Scientific Conference. The AAFS is pleased to announce that Barry K. Logan, PhD, is the 2026 recipient of the Distinguished Fellow Award.

Dr. Logan is Senior VP of Forensic Sciences and Chief Scientist for NMS Labs, the nation's largest forensic chemistry and toxicology reference laboratory. He is also Chief Scientist at the non-profit Center for Forensic Science Research and Education (CFSRE) at the Fredric Rieders Family Foundation in Willow Grove, PA.

At NMS Labs, he established the first drug-impaired driving panels compliant with the National Safety Council's recommendations, which he helped establish in 2007. He also initiated the lab's NPS Strategy Team to track new and emerging drugs and implemented large-scale, quantitative THC testing after the introduction of the United States Farm Bill in 2018.



Dr. Logan is a Fellow of the American Academy of Forensic Sciences and of the American Board of Forensic Toxicologists (ABFT) and has over 210 publications and 850 presentations in forensic toxicology and chemistry, including work on the effects of illicit and prescription drugs on drivers, and drug-caused and -related death. He currently works closely with the Drug Advisory Program of the Colombo Plan, an international non-governmental organization focused on Cooperative Economic and Social Development in Asia and the Pacific, which was established in 1950 to promote foreign aid and technical assistance. He also serves as a member of the Evolving and Emerging Threats Committee (ETC) created under the White House Office of National Drug Control Policy (ONDCP).

His current research priorities are focused on the polydrug crisis and the analytical and interpretive toxicology and chemistry of novel psychoactive substances, founding [www.NPSDiscovery.org](http://www.NPSDiscovery.org) in 2018. In 2023, he was recognized as the most highly cited author in the field of forensic toxicology in the United States.

Dr. Logan also serves as Executive Director of the Indiana University Center for Studies of Law in Action and its "Robert F. Borkenstein Course on Alcohol: Pharmacology, Toxicology and Litigation," which convenes on the campus of IU Bloomington every May and December. He has served in that role since Professor Borkenstein, the inventor of the Breathalyzer, became incapacitated in 2000.

He spends a lot of his personal time as Chief Scientist at the CFSRE focused on professional development and mentorship of the next generation of forensic science teachers, researchers, and leaders.

In recognition of his contributions, Dr. Logan has received numerous awards and recognitions, including The International Association of Forensic Toxicologist (TIAFT) mid-career achievement award, the International Council on Alcohol, Drugs and Traffic Safety (ICADTS) Widmark Award, the National Safety Council's Robert F. Borkenstein Award and its Distinguished Service Award, the Alexander O. Gettler award from the AAFS, and the Alan Curry Career Achievement Award from TIAFT in 2021. He served as President of AAFS from 2013–14.

# AWARDS

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## **AAFS Mosaic Award**

*Jesse R. Goliath, PhD*

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## **FSF Humanitarian and Human Rights Resource Center's Clyde Snow Award**

*Morris V. Tidball-Binz, MD*

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## **FSF Emerging Forensic Scientist Award**

*Marion E. Davidson, MSc*

*Cesar E. Cantu, PhD*

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## **FSF Jan S. Bashinski Criminalistics Graduate Thesis Assistance Grant**

*Kerri Matthews, MS*

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## **FSF Warren-Young Scholarship**

*John Valdes, EdD*

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## **IAFS Douglas M. Lucas Medal**

*Sheila Willis, DS*

# SECTION AWARDS

The Section Awards will be presented during Section Business Meetings on Wednesday, February 11.

## Section Award Honorees

### Anthropology Section's

Ellis R. Kerley Research Award  
J. Lawrence Angel Award  
Section Service Award

Heather J.H. Edgar, PhD  
Krista E. Bennett, PhD  
Jaymelee Kim, PhD  
Rebecca J. Wilson Taylor, PhD

### Criminalistics Section's

Paul L. Kirk Award  
Mary E. Cowan Outstanding Service Award  
Meritorious Service Award

Claude Roux, PhD  
Gerald M. LaPorte, MSFS  
Mechthild Prinz, PhD

### Digital & Multimedia Sciences Section's

Outstanding Case Study Award  
Outstanding Student Research Award

Nicole R. Odom, MSFS  
Sonali Tyagi, MS

### Forensic Nursing Science Section's

Forensic Nurse Scientist Award  
Virginia Lynch Nurse Innovator Award  
Distinguished Forensic Nursing Service Award

Michelle Patch, PhD  
Janean M. Fossum, BSN  
Amy Y. Carney, PhD

### General Section's

Robert Gaffney Achievement Award  
John R. Hunt Award  
Paul W. Kehres Meritorious Service Award  
Robert "Bob" Thibault Award

Carlos A. Gutierrez, DFS  
Gina Londino-Smolar, MS  
Erin P. Koester, MS  
Claire E. Shepard, MS

### Odontology Section's

Lester Luntz Odontology Award  
Reidar F. Sognaes Award of Excellence in Forensic Odontology

Gary L. Bell, DDS  
Peter W. Loomis, DDS

### Pathology/Biology Section's

Milton Helpert Award  
Award for Achievement in the Forensic Life Sciences  
Best Resident Paper Award

Dorothy E. Dean, MD  
Noemi Procopio, PhD  
Ashley L. Smith, MD

### Psychiatry & Behavioral Science Section's

Maier I. Tuchler Award

Karen B. Rosenbaum, MD

### Questioned Documents Section's

Maureen Casey-Owens Award

Samiah Ibrahim, BSc

### Toxicology Section's

Rolla N. Harger Award  
Ray Abernethy Award  
Annual Lectureship in Toxicology  
Best Poster Award

Michelle R. Peace, PhD  
Donna M. Papsun, MS  
Mahmoud A. ElSohly, PhD  
Amanda L. Pacana, MSFS

# BUSINESS MEETINGS

## Attend Your Section's Annual Business Meeting!

### Wednesday, February 11

1:00 pm	-	3:15 pm	Anthropology
1:00 pm	-	2:30 pm	Criminalistics
1:30 pm	-	3:15 pm	Digital & Multimedia Sciences
1:30 pm	-	3:15 pm	Engineering & Applied Sciences
1:30 pm	-	3:00 pm	Forensic Nursing Science
1:30 pm	-	3:15 pm	General
1:45 pm	-	3:15 pm	Jurisprudence
2:00 pm	-	3:15 pm	Odontology
1:30 pm	-	3:00 pm	Pathology/Biology
1:15 pm	-	3:15 pm	Psychiatry & Behavioral Science
1:00 pm	-	3:00 pm	Questioned Documents
1:30 pm	-	3:15 pm	Toxicology

All times are in the U.S. Central Time Zone

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## Attend the AAFS Annual Business Meeting for a Chance to Win a Complimentary Meeting Registration!

The Annual Business Meeting of the Fellows and Members of the AAFS will be held on Wednesday, February 11, at 3:45 pm. It is essential that all Fellows and Members attend this very important meeting in order to reach a quorum for the voting process. Agenda items include the election of 2026-27 Officers, consideration of bylaw amendments, a summary of AAFS activities during the past year, and plans for the future.

As an incentive to attend, all Fellows and Members present will automatically be entered in a drawing for a complimentary meeting registration to attend the 2027 AAFS Annual Scientific Conference in Orlando, FL.

# FINANCIAL CONTRIBUTORS

The American Academy of Forensic Sciences would like to thank the following for their contribution to the 78<sup>th</sup> Annual Scientific Conference:

## SILVER SPONSORS



## BRONZE SPONSORS



## GENERAL SPONSORS



# CONTINUING EDUCATION

## General Information

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All meeting sessions are lectures with one or more speakers. Continuing professional education credits will be offered for physicians, dentists, and attorneys. Continuing education credit applications will be submitted for physicians, nurses, and dentists. Attorneys may request CLE credit; please see the “Legal” section.

To register for continuing education credit, please complete the appropriate section on the meeting Registration Form. An individual must be a registrant to obtain continuing education credit. Fees charged for continuing education credits are based on projected costs of providing the various types of continuing education credit. The AAFS has adopted a user-pay approach so that those individuals who benefit from the specific continuing education program are responsible for the costs incurred.

In order to be in compliance with accrediting organizations, introductions and breaks have been deducted from the total hours. Please note that continuing education credit is not available for all sessions. All continuing education credit recipients will receive certificates with the number of continuing education hours awarded. Attendance reports are filed with the appropriate state or national agency, as required.

## Learning Objectives of the AAFS Continuing Education Program

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- Recognize the perspectives and roles of the various forensic science disciplines
- Assess current concepts and practices
- Discuss relevant forensic science issues related to science, evidence and the law
- Identify strategies for researching descriptive studies, technology and methods, diagnostics, interpretation and testimony
- Review administrative functions performed by forensic scientists

## American Board of Criminalists Approval

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The American Academy of Forensic Sciences (AAFS) is approved by the American Board of Criminalistics (ABC) to offer continuing education points for approved workshops for criminalists and forensic scientists. The ABC maintains responsibility for the program, and credit may be awarded to ABC Fellows, Diplomates, and Affiliates.

## Overall Purpose and Objective Statements for Major Aspects of AAFS Programs

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### *Workshops and Special Sessions*

**Purpose:** To provide an opportunity for experts to present material and to lead discussion and practical exercises related to forensic science methods, procedures, diagnosis, investigation, professional relations and practices, communication, administration, and professional development.

**Learning Overview:** Detailed individually in each workshop and special session announcement and description.

### *Plenary and Keynote Sessions*

**Purpose:** To provide a multidisciplinary presentation and discussion of issues related to the forensic science profession.

**Learning Overview:** Attendees will be able to: a) identify the challenges the forensic science profession has faced and will continue to face in terms of ensuring quality; b) identify ways to deal with the variances each challenge presents; and c) identify the entities which have influence over setting the quality standards in the field of forensic science.

### *Oral and Poster Section Scientific Sessions*

**Purpose:** To provide an opportunity for presentation and discussion of case reports, descriptive studies, review presentations, research, administrative issues, and investigative/diagnostic methods regarding topics and issues of importance to a primary discipline among the forensic sciences.

**Learning Overview:** To meet the educational objectives stated by each presenter for his/her/their presentation.

### *Last Word Society*

**Purpose:** To provide a retrospective forensic analysis of historical events and to provide education about the history and evolution of forensic sciences as well as the modern methods and technologies used to re-examine past events of forensic science interest. Emphasis is placed on the evaluation of the original opinions and case outcome and on the development of newer hypotheses based on the re-analysis.

**Learning Overview:** To meet the educational objectives stated by each presenter for his/her/their presentation.

# CONTINUING EDUCATION

## Guidelines For Claiming Credit

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As the sponsor of Continuing Education Credit, the AAFS recognizes that the forensic science disciplines are inextricably linked and that interdisciplinary knowledge is critical to promote competence in forensic practice. As a result, the claiming of credit for various continuing education activities related to medicine, dentistry, law, and other forensic disciplines need not be limited to one's primary professional specialty. For example, a forensic pathologist from the Pathology/Biology Section may gain very useful and relevant information by attending a presentation in the Anthropology Section scientific session. It is appropriate to claim continuing medical education credit for that session. Many other examples exist where the claiming of continuing education credit is appropriate for attending sessions that cover material related to, but which lay outside of, one's primary professional area of expertise.

It is the conference attendee's responsibility to document which program sessions were attended and to determine those sessions for which continuing education credit may be claimed. The AAFS operates under the assumption that meeting attendees will, in general, be unlikely to attend sessions that will not be beneficial to their professional practice and that the claim for continuing education credit is justified if a session contains scientific or practice-related information that may bring new knowledge, may affirm current knowledge, or may provide information that could possibly modify one's professional practices.

**Those who wish to receive continuing education credit must register and pay the Continuing Education Credit fee during registration. CE Credit Request instructions will be made available before the conference, and credit must be claimed using the online CE portal. AAFS will provide CE Credit worksheets on-site for tracking of applicable hours.**

## Joint Accreditation Statement

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In support of improving patient care, this activity has been planned and implemented by the Postgraduate Institute for Medicine and the American Academy of Forensic Science. Postgraduate Institute for Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## Physician Continuing Medical Education Credit

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The Postgraduate Institute for Medicine designates this live activity for a maximum of 43.25 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Dental Continuing Education Credit

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This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP) through joint efforts between Postgraduate Institute for Medicine and the American Academy of Forensic Sciences.

Postgraduate Institute for Medicine is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of the credit hours by boards of dentistry. The Postgraduate Institute for Medicine designates this activity for 43.25 continuing education credits. Concerns or complaints about a CE Provider may be directed to the provider or to the Commission for Continuing Education Provider Recognition at [www.ada.org/Cerp](http://www.ada.org/Cerp).

## Legal Continuing Education Credit

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Continuing legal education credit will be awarded on an hour-for-hour basis. Attorneys may file the AAFS-issued CLE certificate with their respective state bars. Please note that AAFS is not a pre-approved provider for any state. Each claimant is responsible for any CLE credit approval requirements, including any claim applications, documentation, or fees required in order to submit their CLE credit to their respective state board.

## Non Physician Continuing Education Credit

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A general non physician certificate of attendance will be available.

## General Continuing Education Credit

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General continuing education credit is offered for those practicing the various forensic science disciplines not represented in the aforementioned list.

## Nursing Continuing Education Credit

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The Postgraduate Institute for Medicine designates this live activity for a maximum 43.25 Continuing Nursing Education (CNE) credits. Nurses should claim only the credit commensurate with the extent of their participation in the activity.

# COMMUNITY CONNECTIONS COMMITTEE FORUM AND RECEPTION

*Open to All Meeting Registrants*

Tuesday, February 10, 2026

8:00 pm - 10:00 pm

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## ***Moderated by the AAFS Community Connections Committee***

The AAFS Community Connections Committee (CCC) invites you to a forum and reception at the annual conference in New Orleans. By fostering a welcoming and supportive culture, the CCC encourages diverse ideas that advance culturally competent education, research, and expertise in the legal system. Its mission is to build meaningful relationships and cultivate inclusive practices across the forensic sciences.



Join us for the CCC Forum & Reception featuring Dr. Shamika Kelley, the first Black Crime Laboratory Director in Louisiana. Dr. Kelley earned a BS in Biological Sciences from Louisiana State University, an MS in Forensic and Investigative Genetics from the University of North Texas Health Science Center, and a PhD in Criminal Justice from Sam Houston State University.

Dr. Kelley's career includes work as a forensic DNA analyst, supervisor, and consultant at the Houston Forensic Science Center, where she conducted DNA analyses, provided expert testimony in criminal cases, and led initiatives to reduce case backlogs. Her practitioner work has earned national recognition, including the Saltzman Award for Contributions to Practice from the American Society of Criminology Division on Women and Crime, honoring her impact on justice and safety for women.

Her research has been published in leading journals such as *Journal of Interpersonal Violence*, *Feminist Criminology*, *Crime & Delinquency*, and the *Journal of Police and Criminal Psychology*.

Conference attendees are encouraged to join this special event on Tuesday, February 10, from 8:00 pm – 10:00 pm. Don't miss the opportunity to connect, learn, and be inspired.

## MENTORSHIP MEETUP

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Tuesday, February 10, 2026

4:30 pm - 6:00 pm

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If you are an up-and-coming forensic scientist interested in being partnered with an experienced colleague who can advise you in your career progression, help you network, and assist in learning new skills, then please consider signing up for the AAFS Mentorship Program.

The 2026 Mentorship Meetup will bring together those mentees with mentors who are willing to help guide personal growth within the individual AAFS sections. Refreshments will be served.

For those unable to make it to New Orleans or have a conflict, but are interested in the Mentorship Program, please let us know by contacting [mentorship@aafs.org](mailto:mentorship@aafs.org).

# STUDENT ACADEMY

*Pre-Registration Required (\$35/Person)*

Tuesday, February 10, 2026

9:00 am - 2:00 pm

The purpose of the Student Academy of Forensic Sciences is to bring to the attention of high school students the vital importance of the application of scientific principles to the administration of justice. It acquaints the participants with the role of the forensic science disciplines in the legal system as well as the education and training required for the career in each discipline.

*Chair:*

**Ginesse A. Listi, PhD**  
Louisiana State University  
Baton Rouge, LA

*Co-Chair:*

**Kelly L. Knight, MS**  
George Mason University  
Fairfax, VA

*Faculty:*

*Anthropology*  
**Lauren R. Pharr Parks, PhD**  
Memphis, TN

*Jurisprudence:*

**Pamela King, JD**  
District Court Judge  
Rochester, MN

*Criminalistics:*

**Alyssa Berthiaume, MS**  
Massachusetts State Police Crime Lab  
Springfield, MA

*Odontology:*

**Lillian A. Nawrocki, DDS**  
Forensic Odontology Chief  
Orlando, FL

*Digital & Multimedia Sciences*

**Douglas Lacey, MS**  
BEK TEK LLC  
Stafford, VA

*Pathology/Biology:*

**J.C. Upshaw Downs, MD**  
forensiX, LLC  
Johns Island, SC

*Engineering & Applied Sciences:*

**Roy Crawford, PE**  
R.R. Crawford Engineering, Inc.  
Whitesburg, KY

*Psychiatry & Behavioral Science:*

**Karen B. Rosenbaum, MD**  
Attending Psychiatrist  
New York, NY

*Forensic Nursing Science*

**Russell Rooms, DNP**  
Diversity Family Health  
Newalla, OK

*Questioned Documents:*

**Meg O'Brien, MS**  
U.S. Secret Service  
Washington, DC

**Nancy Downing, PhD**

University of North Texas Health  
College of Nursing  
Fort Worth, TX

*Toxicology:*

**George F. Jackson, PhD**  
NJ Office of the Chief State Medical Examiner  
Burlington Township, NJ

*General:*

**Natalie M. Borgan, MS**  
Federal Bureau of Investigation  
Detroit, MI

**Ashraf Mozayani, PhD**

Texas Southern University  
Houston, TX

# STUDENT ACADEMY

## Program:

9:00 am - 9:10 am      **Introduction**  
Ginesse Listi, PhD

9:10 am - 9:20 am      **Welcome**  
Joanna Collins, MFS

9:20 am - 9:30 am      **“The Case”**  
Kelly Knight, MS

## The Forensic Sciences Group I Disciplines

9:30 am - 10:45 am      **Pathology/Biology**  
J.C. Upshaw Downs, MD

**Anthropology**  
Lauren Pharr Parks, PhD

**Odontology**  
Lillian Nawrocki, DDS

**Toxicology**  
George Jackson, PhD; Ashraf Mozayani, PhD

**Digital & Multimedia Sciences**  
Douglas Lacey, MS

**Forensic Nursing Science**  
Russell Rooms, DNP; Nancy Downing, PhD

10:45 am - 11:00 am      **Q&A, Assignment, and Break**

## The Forensic Sciences Group II Disciplines

11:00 am - 12:15 pm      **General**  
Natalie Borgan, MS

**Criminalistics**  
Alyssa Berthiaume, MS

**Questioned Documents**  
Meg O’Brien, MS

**Engineering & Applied Sciences**  
Roy Crawford, PE

**Psychiatry & Behavioral Science**  
Karen Rosenbaum, MD

12:15 pm - 1:30 pm      **Lunch and Student Trivia**

1:30 pm - 1:45 pm      **Case Conclusion**  
Pamela King, JD

1:45 pm - 2:00 pm      **Wrap-Up**

# FEPAC SESSION

## Accreditation of Forensic Science Academic Programs

Tuesday, February 10, 2026

*Pre-Registration Not Required—Open to All Meeting Attendees*

8:30 am – 12:45 pm

*Chair:*

**Pamela Marshall, PhD**

Duquesne University  
Pittsburgh, PA

*Commissioner:*

**Thomas Brettell, PhD**

Cedar Crest College  
Allentown, PA

*Commissioner:*

**Amy Brodeur, MFS**

Boston University  
School of Medicine  
Boston, MA

*Commissioner:*

**Josh Brunty, ScD**

Marshall University  
Huntington, WV

*Commissioner:*

**Heidi Eldridge, PhD**

The George Washington  
University  
Washington, DC

*Commissioner:*

**A. Karl Larsen, PhD**

University of Illinois  
Chicago, IL

*Commissioner:*

**Joseph Levi White, PhD**

US Army Criminal Investigation  
Laboratory (USACIL)  
Forest Park, GA

*Accreditation Manager*

**Nicole Zevotek, MS**

AAFS  
Colorado Springs, CO

**Learning Overview:** Upon completion of this session, the participant should be able to understand the process of accreditation through the AAFS FEPAC mechanism and be able to participate in the process as a reviewer of academic programs. Participants from academic programs will also learn about the process of accreditation from different perspectives.

**Program Description:** This session has been developed to assist academic institutions offering undergraduate and graduate degree programs in forensic science and forensic digital evidence to prepare for the accreditation process through the FEPAC. This session will also assist future on-site evaluators (academic and practitioners) to prepare for on-site evaluations of academic programs. Successful completion of this session will qualify participants for consideration to serve as on-site evaluators for FEPAC in the future (please note that participants must still meet other FEPAC requirements, such as membership in the AAFS and designation as either a practitioner or academician). This training session will highlight updates to the FEPAC Standards for Accreditation and provide valuable information for both program directors and on-site evaluators.

The FEPAC is a standing committee of the AAFS with a membership that includes five educators, five forensic science practitioners, and a public member as voting members. The mission of the FEPAC is to maintain and enhance the quality of forensic science education through a formal evaluation and recognition of college-level academic programs. The FEPAC has been accrediting programs since 2004. The primary function of the committee is to develop and maintain standards and to administer an accreditation program that recognizes and distinguishes high-quality undergraduate and graduate forensic science programs. Forty institutions comprising a total of fifty academic programs are currently accredited. Additional information on FEPAC can be found on the FEPAC website.

### Program:

8:30 am - 9:00 am	<b>Introduction and Welcoming Remarks/Module 1: What to Know About FEPAC</b> Pamela Marshall, PhD
9:00 am - 9:30 am	<b>Module 2: An Overview of the FEPAC Application Process</b> Thomas Brettell, PhD
9:30 am - 10:00 am	<b>Module 3: A Review of Self-Study Standards 3.0—General for All Programs</b> Heidi Eldridge, PhD
10:00 am - 10:15 am	<b>BREAK</b>
10:15 am - 10:45 am	<b>Module 4: A Review of Self-Study Standards 4.0—Undergraduate Programs</b> A. Karl Larsen, PhD
10:45 am - 11:15 am	<b>Module 5: A Review of Self-Study Standards 5.0—Graduate Programs</b> Josh Brunty, ScD
11:15 am - 11:45 am	<b>Module 6: Accreditation Decisions and Categories, Appeals Process, Annual Reports, Substantive Changes, and Post-Visit Survey</b> Joseph Levi White, PhD
11:45 am - 12:15 pm	<b>Module 7: FEPAC On-Site Evaluator Training</b> Amy Brodeur, MFS
12:15 pm - 12:45 pm	<b>Questions and Answers</b> FEPAC Commissioners and Accreditation Manager

# YOUNG FORENSIC SCIENTISTS FORUM

*Open to All Meeting Registrants—Pre-Registration Encouraged*

## S1 Unmasking the Voodoo — Empowering the Next Generation of Truth-Seekers

Tuesday, February 10, 2026

8:00 am – 5:00 pm

CE Hours: 7.0

*YFSF Chair:*

**Emily Rue, PhD**

Department of Army Criminal Investigation  
Forensic Exploitation Division  
Atlanta, GA

**Joanna Collins, MFS**

AAFS President  
LINUS Investigations and Consulting  
San Antonio, TX

**Tiffany Roy, JD, MSFS**

ForensicAid, LLC  
West Palm Beach, FL

*Presenters:*

**Amy Carney, PhD**

California State University San Marcos  
San Marcos, CA

**Christopher Ehrhardt, PhD**

Virginia Commonwealth University  
Richmond, VA

**Shivani Sanger, MSc**

Liverpool John Moores University  
Liverpool, England

**Marla Carroll, BS**

Forensic Video & Audio Associates, Inc.  
Atlanta, GA

**Beth Saucier Goodspeed, MS**

Lasell University  
Auburndale, MA

**Kathryn Seigfried-Spellar, PhD**

Michigan State University  
East Lansing, MI

**Claire Cartozzo, PhD**

MRI Global  
Louisa, VA

**Cheryl Hunter**

American Academy of Forensic Sciences  
Colorado Springs, CO

**April Solomon, MFSF**

Jefferson Parish Sheriff's Office  
Regional DNA Laboratory  
Metairie, LA

**James Caruso, MD**

AAFS President-Elect  
DPHE Office of the Medical Examiner  
Denver, CO

**John Paul Jones II, MBA**

National Institute of Standards and Technology  
Gaithersburg, VA

**Jeffery Tomberlin, PhD**

Texas A&M University  
College Station, TX

**Isabelle Cohn, BASc**

Innocence Project  
New York, NY

**Brooke Kammrath, PhD**

University of New Haven  
West Haven, CT

**Elora Wall, MS**

Jefferson Parish Sheriff's Office  
Crime Laboratory  
Metairie, LA

**Laura La Cagnina, DNP, MSN, RN**

Forensic Nurse/Educator  
Marietta, GA

**Sara Zapico, PhD**

New Jersey Institute of Technology  
Newark, NJ

**Learning Objective:** The YFSF offers students and young professionals the opportunity to interact with professionals in the forensic science community as they begin their careers. This session presents attendees with the chance to learn about the multitude of careers available in forensic science as well as develop professional skills that are essential for the job-hunting process. Our mission is to provide the education, mentorship, and resources necessary to champion students and young forensic scientists to promote interest, membership, and participation with AAFS and the forensic science community for years to come.

**Impact Statement:** The YFSF provides students and young professionals with less than five years of experience an opportunity to network, collaborate, and learn from fellow peers and experts in the field. This session will prepare attendees for a successful career in their discipline of choice and allow them to look from the outside-in as they evaluate themselves and their future impact on forensic science. Our mission is to provide education, mentorship, and resources to students and burgeoning forensic scientists in order to promote interest and longevity in the field and to encourage participation and advancement in the AAFS.

**Program Description:** This year, the American Academy of Forensic Sciences (AAFS) is celebrating 78 years of global engagement. The overall theme of the conference is Back to the Basics: The Fundamentals of Forensic Science. In the past few years, we have seen more people exonerated for a multitude of reasons, including fallacious science, improper investigation and analysis, and misrepresentation of results. AAFS President Joanna Collins' plan is to focus on the ethical application of science, standards development and implementation, implementation of the scientific method, and a duty to remain unbiased. Our Special Session theme, Unmasking the Voodoo: Empowering the Next Generation of Truth-Seekers, was chosen to invigorate young forensic

# YOUNG FORENSIC SCIENTISTS FORUM

## S1 Unmasking the Voodoo — Empowering the Next Generation of Truth-Seekers

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scientists and demonstrate how education and training play a vital role in the success of forensic science. This full-day session will show young forensic scientists that their contribution matters and that the decisions they make today can have a positive impact on the scientific community at large.

This year, the YFSF is excited to present an outstanding group of speakers. These distinguished presenters have been carefully selected to provide exceptional mentorship to attendees through topics such as how to use standards to increase your confidence, pathways for forensic nurses, a path to leadership, and how research plays an integral role in forensic science. The session will also include thoughtful demonstrations on assessing one's professional goals, establishing what success looks like for a young forensic scientist, and thinking about one's responsibilities as a mentor and leader as one advances into a career. The YFSF Special Session provides an inclusive atmosphere for young forensic scientists to have the opportunity for professional growth/development and scientific engagement with esteemed colleagues.

Through these presentations, attendees will hear from experienced practitioners as they discuss their extensive education, training, and experiences that have led to success in their field of study. These presentations include case-driven research, innovative methodology, scientific studies, and personal stories. Through this session, the YFSF aims to integrate young professionals into the field as they begin their journey into forensic science. The YFSF offers two additional opportunities for young professionals and students: the Bring Your Own Posters (BYOP) Session and the Bring Your Own Slides (BYOS) Session. We are excited to announce that, for the fourth year, we have collaborated with The Center for Forensic Science Research and Education (CFSRE) to honor and award two outstanding scientists for their contribution to forensic science. Finally, the session will host a resume review workshop, so do not forget to update your resume and bring printed copies with you to the session!

### Program:

8:00 am - 8:20 am	<b>Introduction to the YFSF</b> Claire Cartozzo, PhD; Sara Zapico, PhD; Emily Rue, PhD
8:20 am - 8:40 am	<b>Membership in the AAFS</b> Cheryl Hunter
8:40 am - 9:00 am	<b>The Science Behind the Spells: A Real Look at a Forensic Career</b> Beth Saucier Goodspeed, MS
9:00 am - 9:20 am	<b>From Curiosity to Credibility: My Path in Forensic Science, Research, and Publishing</b> Brooke Kamrath, PhD
9:20 am - 9:40 am	<b>Forensic Nursing: Pathways for Forensic Professionals</b> Amy Carney, PhD
9:40 am - 10:00 am	<b>Unmasking Forensic Anthropology: A Journey of Research, Challenges, and Outreach</b> Shivani Sanger, MSc
10:00 am - 10:15 am	<b>BREAK</b>
10:15 am - 10:35 am	<b>Using Forensic Science Standards to Increase your Confidence and Competence</b> John Paul Jones, II, MBA
10:35 am - 10:55 am	<b>There and Back Again: A Chemist's Journey</b> Elora Wall, MS
10:55 am - 11:15 am	<b>Forensic Science in the Fight Against Wrongful Conviction</b> Isabelle Cohn, BASc

# YOUNG FORENSIC SCIENTISTS FORUM

## S1 Unmasking the Voodoo — Empowering the Next Generation of Truth-Seekers

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### Program cont.:

- 11:15 am - 11:55 am     **The Resume Masquerade: How To Unmask Your Potential**  
Emily Rue, PhD; Claire Cartozzo, PhD
- 11:55 am - 1:00 pm     **BREAK**
- 1:00 pm - 1:20 pm     **Fundamentals First: A Path to Leadership**  
Joanna Collins, MFS
- 1:20 pm - 1:40 pm     **Mentoring: Pass It On!**  
James Caruso, MD
- 1:40 pm - 2:00 pm     **Beignet, Done That: Donut Believe Everything You See or Hear**  
Marla Carroll, BS
- 2:00 pm - 2:20 pm     **Navigating the Pirate Ship: Bridging the Gap Between Research and Practice in Forensic Science**  
Christopher Ehrhardt, PhD
- 2:20 pm - 2:40 pm     **From Classroom to Courtroom: Unspoken Truths of a Forensic Career**  
Tiffany Roy, JD, MSFS
- 2:40 pm - 2:55 pm     **BREAK**
- 2:55 pm - 3:15 pm     **Hey, Just Checking In**  
April Solomon, MFSF
- 3:15 pm - 3:35 pm     **Dirt Roads, Farming, and Forensic Entomology: How Did It All Happen?**  
Jeffery Tomberlin, PhD
- 3:35 pm - 3:55 pm     **The Hidden Toll of Truth-Seeking**  
Kathryn Seigfried-Spellar, PhD
- 3:55 pm - 4:15 pm     **Could I Be a Forensic Nurse and Not Know It?**  
Laura La Cagnina, DNP, MSN, RN
- 4:15 pm - 4:55 pm     **Voodoo No More: Q&A and Breakout Sessions**  
Claire Cartozzo, PhD; Emily Rue, PhD
- 4:55pm - 5:00 pm     **Closing of the YFSF Special Session**

# INTERDISCIPLINARY SYMPOSIUM

*Open to All Meeting Registrants—Pre-Registration Encouraged*

## S2 Sustaining the Science and the Scientist: Foundations for the Future

Tuesday, February 10, 2026

1:00 pm – 6:00 pm

CE Hours: 4.75

*Chair:*

**Katharine Pope, MA**

SNA International  
(supporting the DPAA mission)  
Fruitland, MD

*Co-Chair:*

**Laura Labay, PhD**

NMS Labs  
Horsham, PA

*Presenters:*

**Nathaniel Adams, BS**

Forensic Bioinformatic Services  
Dayton, OH

**David Annas, MD**

Forensic Psychiatry Consulting, LLC  
Alexandria, VA

**Ryan Backmann**

Project: Cold Case  
Jacksonville, FL

**Garry J. Bombard, PhD**

Garry Bombard Forensic Consulting  
Chicago, IL

**Stacey Chepren, MSc**

United States Air Force  
International Association of  
Coroners & Medical Examiners  
Tucson, AZ

**Laura Gaydosh Combs, PhD**

University of New Haven  
West Haven, CT

**Jan M. Gorniak, DO**

World Peace Forensic Consulting, LLC  
Tallahassee, FL

**Krystal R. Hans, PhD**

Department of Entomology  
Purdue University  
West Lafayette, IN

**Sherri Kacinko, PhD**

NMS Labs  
Horsham PA

**Dustin Nolen, PE**

Vista Engineering & Consulting, LLC  
Birmingham, AL

**Raymond Thompson, PhD, PE**

Vista Engineering & Consulting, LLC  
Birmingham, AL

**Joe Treviño**

New York Police Department  
New York NY

**Jalika Waugh, PhD**

Emergency Management/Public Safety  
Pinellas County Schools  
Largo, FL

**Teresa White, PhD**

Bone & Stone Anthrosciences, LLC  
Bigfork, MT

**Program Description:** The 2026 AAFS Annual Scientific Conference's Interdisciplinary Symposium (IDS) highlights the theme "Back to Basics" through a dynamic program including a keynote address, five presentations focused on "Building the Practice," and five presentations focused on "Building the Practitioner," with dedicated time for discussion. IDS keynote speakers are Krystal Hans from Purdue University and Ryan Backman from Project Cold Case. Their presentations will address the importance and benefits of an interdisciplinary approach to the investigation of cold cases. The first IDS panel, moderated by Katharine Pope, delves into "Building the Practice" and features insights from Jalika Waugh, Garry Bombard, Raymond Thompson, Dustin Nolen, David Annas, and Laura Gaydosh Combs. This session explores strategies to strengthen forensic science as a discipline. Topics include promoting STEM education, understanding *Daubert* standards, maintaining competency for testimony, and learning from failures in casework. The second IDS panel, moderated by Laura Labay, focuses on "Building the Practitioner" and features insights from Sherri Kacinko, Joe Trevino, Jan Gorniak, Stacy Chepren, and Theresa White. This session addresses personal and professional challenges faced by forensic practitioners. Topics include creating welcoming workplaces and preventing burnout, managing stress, promoting inclusion among practitioners, understanding and mitigating imposter syndrome in courtroom settings, and delivering difficult communications, such as death notifications. Together, these sessions will explore the interplay between advancing rigorous practices and cultivating resilient practitioners, reinforcing the collective responsibility to ensure that all AAFS sections of forensic sciences remain credible, sustainable, and responsive to the needs of justice.

**Learning Objectives:** This session features presentations and professional discussions across AAFS sections that address the multifaceted challenges forensic scientists encounter throughout their careers. Beyond technical expertise, sustaining excellence in forensic science requires deliberate attention to ethics, education, communication, and well-being. Speakers will examine strategies to uphold professional standards, protect personal well-being, and maintain public confidence in forensic science. Psychological factors, including the infallibility complex and imposter syndrome, will be explored alongside approaches for

# INTERDISCIPLINARY SYMPOSIUM

## S2 Sustaining the Science and the Scientist: Foundations for the Future

strengthening community support and fostering workplace well-being. The session will also address long-term career sustainability through mentorship and continuous quality improvement. By integrating multiple perspectives, the program seeks to cultivate a more resilient, ethically grounded, and sustainable forensic science workforce.

**Impact on the Forensic Science Community:** Attendees will acquire critical perspectives on the professional and personal challenges that influence the trajectory and longevity of careers in forensic science, as well as strategies for sustaining both. The session is structured around two interrelated themes: the development of the practitioner and the advancement of the practice, with particular attention to long-term sustainability. Presenters will underscore the importance of well-being in both occupational and personal domains, emphasizing its direct impact on the integrity and effectiveness of forensic science from analytical testing and data interpretation to the delivery of expert testimony in judicial settings. Topics will also include learning from system failures, fostering STEM education, and strategies for maintaining competency throughout a career. Finally, the session aims to promote interdisciplinary dialogue on how practitioners can support one another, ensuring the continued evolution of forensic science while enabling AAFS members to thrive and contribute meaningfully to the field.

### Program:

1:00 pm – 1:40 pm	<b>Keynote: Advocacy and Interdisciplinary Action in Unresolved Cases</b> Krystal Hans, PhD; Ryan Backmann
<b>Building the Practice</b>	<b>Moderated by Katharine Pope</b>
1:40 pm – 2:00 pm	<b>Humanizing Forensic Science: STEM Education in Title I Florida High Schools</b> Jalika Waugh, PhD
2:00 pm – 2:20 pm	<b>Embracing Social Science Research: Demonstrating the Effectiveness of Forensic Science by Determining Forensics' True Societal Value</b> Garry Bombard, PhD
2:20 pm – 2:40 pm	<b>Forging the <i>Daubert</i>-Proof Opinion: A Framework for the Modern Engineering Expert</b> Raymond Thompson, PhD, PE; Dustin Nolen, PE
2:40 pm – 3:00 pm	<b>Back to the Basics for Forensic Mental Health: Challenges and Potential Solutions</b> David Annas, MD
3:00 pm – 3:15 pm	<b>BREAK</b>
3:15 pm – 3:35 pm	<b>Fundamental Failures: Lessons for Continuous Improvement</b> Laura Gaydosh Combs, PhD; Nathaniel Adams, BS
<b>Building the Practitioner</b>	<b>Moderated by Laura Labay</b>
3:55 pm – 4:15 pm	<b>The Importance of a Welcoming Workplace</b> Sherri Kacinko, PhD
4:15 pm – 4:35 pm	<b>Navigating Vicarious Trauma through Stress Management</b> Joe Trevino
4:35 pm – 4:55 pm	<b>Representation Matters</b> Jan M. Gorniak, DO
4:55 pm – 5:15 pm	<b>Courtroom Confidence: Navigating Imposter Syndrome for Forensic Professionals</b> Stacy Chepren, MSc
5:15 pm – 5:35 pm	<b>Compassion Fatigue: An Occupational Hazard of Delivering Bad News</b> Teresa White, PhD
5:35 pm – 6:00 pm	<b>Panel Q&amp;A – Building the Practice &amp; Closing Discussion</b>

# HUMANITARIAN AND HUMAN RIGHTS RESOURCE CENTER

*Open to All Meeting Registrants*

## Film Screening

Tuesday, February 10, 2026

4:00 pm – 6:00 pm



The FSF and HHRRC are pleased to offer conference attendees a special viewing of *The Judge and the General*, a 2008 documentary that chronicles Chilean judge Juan Guzmán's efforts to bring former dictator Augusto Pinochet to justice for human rights violations during his regime.

The film, directed by Elizabeth Farnsworth and Patricio Lanfranco, follows Judge Juan Guzmán as he investigates the crimes committed during Augusto Pinochet's dictatorship in Chile from 1973 to 1990. Initially a supporter of Pinochet, Guzmán's perspective shifts dramatically as he confronts the brutal realities of the regime's actions, including murder, torture, and enforced disappearances of political opponents.

## Poster Session

Tuesday, February 10, 2026

6:00 pm – 8:00 pm

The Humanitarian and Human Rights Resource Center (HHRRC), with the support of the Forensic Sciences Foundation (FSF), provides resources and support for research, laboratories and active projects around the world that apply modern forensic science techniques to global humanitarian and human rights projects. This HHRRC Poster Session is an open meeting where attendees can learn about some of the recently funded HHRRC grants, highlighting research and projects dedicated to the investigation of humanitarian and human rights injustices.

*Moderator:*

**Dawnie W. Steadman, PhD**

HHRRC Chair

Director Emeritus, Forensic Anthropology Center

University of Tennessee

Knoxville, TN

### Poster Presentations:

- 1. The Distomo Massacre: A Preliminary Osteological Assessment of Civilian Victims of a Nazi Reprisal in Greece**  
Constantine Eliopoulos (Liverpool John Moores University), Matteo Borrini, Konstantinos Moraitis, Georgios Panagiaris
- 2. Improving Femicide Data Quality and Strengthening Classification in Morocco: A Forensic Approach to Human Rights, CRVS Reform, and Prevention from the Femicide Data Quality Improvement Project of Casablanca**  
Hind Abouzahir (Medico-Legal Institute of Casablanca), Barthelemy Munkana Matadi, Olga Helena Joos, Sam Notzon, Carmen Sant Fruchtmann, Hicham Benyaich
- 3. Dental Age Assessment Using Orthopantomograms: Validation of the Demirjian Dental Age Estimation Method in the Nigerian Pediatric Population**  
Busuyi Kolade Akinola (University of Port Harcourt, Nigeria), Candice Small, Gabriel Oladipo, Michael Oyakhire
- 4. Documentation of a Colonial Genocide in Western Cameroon**  
Julia Barnes (University of Tennessee), Jacob Tatsitsa, Ferdinand Marcial Nana, Lucie Mbogni Nankeng, Gilbert Wate Sayem, Alain Tamonoche, Duarte Nuno Vieira
- 5. Forensic Anthropology Training: Enabling African (Uganda) Forensic Practitioners to Assess Human Skeletal Remains**  
Desiré Brits (University of the Witwatersrand, South Africa), Sam (Skalungi) Kalungi, Stacey Simons
- 6. A Humanitarian Forensic Assessment of the Management of the Dead in Arizona**  
Sherry C. Fox (Arizona State University)
- 7. Tracing the Nameless Dead: Forensic Data Centralization for Migration-Related Fatalities in Greece**  
Despoina E. Flouri (University of Crete, Greece), Sophia R. Mavroudas, Despoina Nathena, Christina Kaydi, Fatemeh Parivand, Konstantinos Moraitis, Elena F. Kranioti

# HUMANITARIAN AND HUMAN RIGHTS RESOURCE CENTER

## Poster Session (cont.)

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- 8. Root Dentin Translucency as an Indicator of Age-At-Death: A Model Based on Bayes' Theorem**  
Gonzalo Garizoain (CONICET), Roberto Carlos Parra, Claudia M. Aranda, Leandro Luna
- 9. First Forensic Entomology Training and First Survey of Forensically Important Diptera in the Republic of Gambia**  
M. Denise Gemmellaro (Kean University), Amanda J. O'Connor, Gloria Raise
- 10. Evaluating the Suitability of Ultrawide Band Dual Frequency Ground Penetrating Radar (GPR) for Detecting Operation Condor-Era (c. 19702s) Clandestine Graves in Paraguay**  
Jacob A. Harris (Arizona State University), Adriana Sartorio, Rogelio Goiburú, Katelyn Bolhofner
- 11. Validation of the Forensic International Dental Database (FIDBx2), A Global Forensic Proposal for Adult Age Estimation Using Single-Rooted Teeth**  
Leonardo Luna (CONICET), R. Parra, G. Garizoain, D. Ubelaker, P. Rodríguez, L. Matrille, K. Escalante Florez, C. Souza Faviero, A. Franco, D. Mansegosa, S. Giannotti, P. Miamoto, M. Mishra, F. Camarasa, E. Baccino, F. Retana-Milán, C. Hernández Flores, E. Zorba, K. Moraitis, L. Condori, C. Aranda
- 12. Biogeochemical Approach to Forensic Migration Issues Based on Contemporary Populations from Peru and Argentina**  
Martha Palma Málaga (Ministerio de Justicia y Derechos Humanos de Perú), Belén Sandoval Ramos, Paula Miranda de Zela, Roberto C. Parra, Lucio Condori, Digna M. Vigo Corea, Samantha Robinson, Jazmin Borrayo, Petrus le Roux, Augusto Tessone, Eric Bartelink
- 13. Fixing a Broken System: Challenges and Advancements in the Development of a Human Identification Center in the Rio Grande Valley (RGV)**  
Courtney C. Siegert (Texas State University, San Marcos), Carina Marques, Molly A. Kaplan, M. Kate Spradley, Victoria M. Swenson, Savannah Molina, Armando Montalvo, Navit Nachmias, Daniela Martinez-Herrera, Rebecca Stowe, Victoria Rosas, Luke Gent, Chloe McDanel
- 14. BITACORA Project Update: An HHRRC-Supported Isotopic Reference Database of Contemporary Human Tissues for Forensic Applications in Argentina**  
Luciano Valenzuela (Consejo Nacional de Investigaciones Cientificas y Tecnicas, Argentina), Felipe Otero, Luciano L. Loupias, Marien Beguelin, Rocio Garcia Mancuso
- 15. The Impact of HHRRC Sponsored Projects**  
Dawnie Wolfe Steadman (University of Tennessee, Knoxville)

# PLENARY SESSION

*Open to All Meeting Registrants*

Wednesday, February 11, 2026

9:00 am – 11:00 am

CE Hours: 1.75



## **Navigating Invisible Wounds: Mental Health and Well-Being Across the Forensic Spectrum**

*Welcoming Remarks*

**Joanna L. Collins, MFS**  
**AAFS President**  
**LINUS Investigations & Consulting**  
**San Antonio, TX**

*Plenary Session Chair:*

**Marla Carroll, BS**  
Forensic Audio & Video Associates, Inc.  
Plantation, FL

*Plenary Session Co-Chair:*

**Edward Mazuchowski, MD, PhD**  
HNL Lab Medicine  
Allentown, PA

### **Presenters**

**Gregory I. Mack, PhD**  
New York Police Department, Medical Division  
New York, NY

**Anjali A. Ranadive, MFS, JD**  
SciLaw Forensics, Ltd.  
Phoenix, AZ

**Kathryn C. Seigfried-Spellar, PhD, MA**  
School of Criminal Justice, Michigan State University  
East Lansing, MI

**Honorable Daniel G. Martin**  
Judge, Maricopa County Superior Court  
Phoenix, AZ

**Overview:** Forensic science practitioners routinely operate in environments defined by high stakes decisions, demanding workload, administrative burdens, and repeated exposure to violence and human tragedy. While the impact of this work varies by forensic science discipline and individual, the often-unseen consequences can reshape views, challenge well-being, and influence professional performance. Despite these challenges, considerations for the mental well-being for the forensic workforce have historically received limited attention. This presentation will provide a comprehensive overview of the psychological risks and well-being needs of practitioners across the diverse spectrum of forensic disciplines—from scene to laboratory to courtroom.

Drawing from current research and individual experiences, this session examines how repeated exposure to trauma, high caseloads, organizational pressures, ethical responsibility, and the emotional weights of case outcomes contribute to vicarious trauma, secondary traumatic stress, compassion fatigue, and burnout, to highlight a few. While these stressors manifest uniquely across disciplines—whether through direct scene exposure, laboratory analysis of evidence from violent crimes, or continuous review of disturbing digital media—they create a shared vulnerability that impacts personal well-being, professional performance, and long-term workforce sustainability.

# PLENARY SESSION

*Open to All Meeting Registrants*

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Each speaker brings different experiences, expertise, and perspectives based upon their role within the criminal justice system and forensic science. By integrating these varied viewpoints, the Plenary Session will explore these perspectives and highlight the pervasive reach of mental health consequences across disciplines, emphasizing the need for systemic awareness, cross-disciplinary support, and trauma-informed organizational practices. As we celebrate the theme of Back to Basics, there is nothing more fundamental to forensic science than the individual practitioners and their ability to perform and practice their discipline. This session underscores that safeguarding the mental health of forensic and justice professionals is essential not only for individual well-being but also for the integrity, accuracy, and humanity of the justice process.

## **Program:**

- 9:00 am - 9:10 am      **Opening Remarks and Introduction**  
Joanna Collins, MFS; Marla Carroll; Edward Mazuchowski, MD, PhD
- 9:10 am - 10:40 am    **Perspectives of a First Responder and Mental Health Provider**  
Gregory I. Mack, PhD
- Perspectives of an Academic in Digital Forensics**  
Kathryn C. Seigfried-Spellar, PhD, MA
- Assessing VT and Attitudes Toward Mental Health in AAFS**  
Kathryn C. Seigfried-Spellar, PhD, MA  
Chair, Presidential Ad Hoc: Vicarious Trauma Outreach
- Perspectives of a Criminologist**  
Anjali A. Ranadive, MFS, JD
- The Judicial Perspective**  
Honorable Daniel G. Martin, JD
- 10:40 am - 11:00 am    **Questions From the Audience and Closing Remarks**  
All Presenters

# CASE BREAK SESSIONS

## CB1 Fiction vs. Science: The Yara Gambirasio Case on Netflix

Tuesday, February 10, 2026

7:15 am – 8:15 am

CE Hour: 1.0

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### Luciano Garofano, PhD

Italian Academy of Forensic Science  
Parma, Emilia-Romagna, Italy

### Michele Vaira, JD

Criminal Procedure and International Criminal Law  
Vaira Law Firm  
Parma, Italy

**Learning Objectives:** After attending this presentation, participants will understand how journalistic investigations and TV dramas can mislead the perception of the facts established in criminal trials.

**Impact Statement:** This presentation will highlight the danger that biased information may influence public opinion on the fairness of judicial decisions and, in jury-based legal systems, sway the jury's perspective.

**Program Description:** The case concerns the murder of Yara Gambirasio, a 13-year-old girl, which took place on February 26, 2010, in a small town called Brembate di Sopra (Bergamo-Italia). Three months after her disappearance, on February 25, 2011, her dead body was found in a field, frozen and partially decomposed. Yara had several stab wounds, including to her throat, but she died of starvation and cold.

# CASE BREAK SESSIONS

## CB3 Reducing Communication Barriers in the Use of the NIST-OSAC Verbal Scale: Focus on Reporting Glass Associations

Wednesday, February 11, 2026

7:15 am – 8:15 am

CE Hour: 1.0

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**Laurn C. Alexander, PhD**  
West Virginia University  
Morgantown, WV

**Sarah E. Wagner, JD**  
West Virginia University College of Law  
Morgantown, WV

**Melissa Giggerbach, JD**  
West Virginia Innocence Project Clinic  
Morgantown, WV

**Learning Objectives:** By attending this session, attendees will: (1) discuss current issues between criminal lawyers and forensic scientists on how to properly convey the weight of the evidence using the verbal scale of the National Institute of Technologies-Organization of Scientific Area Committees (NIST-OSAC) trace subcommittee; (2) discuss the importance of pre-trial preparation and communication and propose ways forensic scientists can articulate the verbal scale; (3) know what questions to ask (and provide an explanation of why they should be asked) during direct examination of a trace evidence expert (these will be based on the simulation from the overview); (4) know what questions to ask (and provide an explanation of why they should be asked) during cross-examination of a trace evidence expert (these will be based on the simulation from the overview); and (5) create a mock transcript of a direct-exam and cross-exam of a trace evidence expert using a simulated case study.

**Impact Statement:** Currently, there is no manual, set of guidelines, or a standard operating procedure to reduce the communication barrier between trace evidence analysts and criminal lawyers. However, the issues with forensic science and its integration into the legal system must be addressed, specifically with the use of the verbal scale to report on the weight of the evidence. Many have published on the misinterpretation of likelihood ratios reported for DNA evidence, but it has not been reported for trace evidence, particularly glass and paint. Furthermore, the NIST-OSAC's verbal scale has been developed and proven useful but has not been integrated into reporting guidelines or taught to attorneys. This manual could be useful for lawyers planning to direct or cross-examine trace evidence analysts who use this verbal scale. Reporting with associations helps the scientist properly convey their results, while also reducing the risk of confusing attorneys, jurors, and judges alike.

**Program Description:** This case break addresses the communication gap between forensic scientists and criminal lawyers, a key issue that often leads to misunderstanding or misinterpretation of forensic evidence in court. While lawyers may struggle to grasp the significance of technical findings, scientists often find it difficult to express their conclusions in clear, accessible language.

# CASE BREAK SESSIONS

## CB4 From Investigation to Conviction: Combined Forensic and Investigative Efforts in an Infant Death Due to Diphenhydramine Toxicity

Wednesday, February 11, 2026

7:15 am – 8:15 am

CE Hour: 1.0

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### Nathan Shaller, MD

Clark County Office of the Coroner/Medical Examiner  
Las Vegas, NV

**Learning Objectives:** By attending this session, attendees will be able to: (1) describe key autopsy findings in fatal toxicity cases, including in cases due to diphenhydramine; (2) explain the role and importance of interdisciplinary collaboration, including forensic pathologists, toxicologists, death investigators, and law enforcement; and (3) extrapolate on collaboration and discuss the medicolegal significance of comprehensive death investigation in pediatric homicide cases and how coordinated efforts impact legal outcomes.

**Impact Statement:** This case highlights the interdisciplinary efforts on behalf of the forensic pathologist, toxicologist, coroner investigator, and law enforcement required to determine a rare homicidal manner of death for a pediatric toxicological death that ultimately resulted in conviction.

**Program Description:** This case involves the homicide of a 5-month-old infant initially thought to have died from co-sleeping. Early investigation by the Coroner's Office and Abuse and Neglect Department — including a doll reenactment — raised concerns about the circumstances of death.

The autopsy revealed subtle external injuries (frontal hemorrhages and abrasions) and significant internal bleeding in the brain and spinal cord. Toxicology testing found lethal levels of diphenhydramine (an antihistamine) in multiple samples. Further coordinated testing and investigation confirmed that the infant had been intentionally administered diphenhydramine, leading to the classification of the death as homicide. The defendant later accepted a plea deal and was incarcerated.

# CASE BREAK SESSIONS

## CB5 Air Crash Management and Victim Identification Prior to DMORT)

Thursday, February 12, 2026

7:15 am – 8:15 pm

CE Hour: 1.0

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### John P. Kenney, DDS, MS

Davidson County Medical Examiner's Office  
Nashville, TN

**Learning Objectives:** This session will: (1) review management and identification procedures in late 20th-century accidents, (2) present the origins of the Disaster Mortuary Operational Response Team (DMORT), and (3) give recognition to the forensic scientist who participated and directed identifications prior to personal or desktop computers and associated identification software.

**Impact Statement:** In keeping with the theme of the meeting, this presentation will review, particularly for younger members of the Academy, the effort needed prior to the inception of DMORT to respond to a mass fatality incident and pay tribute to the senior and deceased members of the academy that paved the way for modern and rapid identification of victims, particularly in air crash incidents.

**Program Description:** Commercial air carrier accidents, with their immediate tragic newsworthiness and effect not only on a local community but the nation as a whole or even worldwide, occur with little or no warning. Fire, police, and then local coroners or medical examiners were forced to respond and literally create from scratch a morgue and identification center in the days before DMORT and its three portable morgues. Through the efforts of Tom Shepardson and others and starting with the National Foundation for Mortuary Care, the herculean effort calling on all manner of resources to assemble the space, equipment, and personnel needed was simplified into a unified effort now known as the Disaster Mortuary Operations Response Team. This presentation will examine a number of these earlier incidents and pay tribute to the pioneers within the forensic science community, particularly Anthropology, Odontology, and Pathology, who were responsible to respond, recover, process, identify, and release the properly named victims back to their next of kin in a timely manner. Incidents reviewed will include the Tenerife, Chicago, Milwaukee, Washington, DC, and Roselawn, IN events. AAFS Members played a key role in all these events, some members at multiple events. Many participating AAFS members have gone before us and left this world a better place, and a number that are still active or retired members of the Academy also served as operational leaders and were our mentors and teachers. This presentation is a tribute to all of those who responded in the past and those who respond today.

# CASE BREAK SESSIONS

## CB7 Challenging Probabilistic Genotyping and DNA-TPPR Assumptions: A Case Study From *Minnesota vs. Porter*

Friday, February 13, 2026

7:15 am – 8:15 am

CE Hour: 1.0

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**Cynthia Cale, MSc**  
DNA Mavens LLC  
Cleveland, TX

**Learning Objectives:** Attendees will learn how limitations in probabilistic genotyping software validation, specifically contributor number assumptions, can affect the reliability of DNA evidence interpretation. This presentation will also explore the potential for sub-source likelihood ratios to be misinterpreted at the activity level. It will emphasize the importance of clearly communicating such limitations in forensic reports and testimony.

**Impact Statement:** This presentation will help forensic practitioners, attorneys, and stakeholders recognize the importance of adhering to software validation boundaries and properly contextualizing probabilistic results. It will promote more transparent and scientifically responsible communication of forensic DNA findings to prevent misinterpretation by courts and juries.

**Program Description:** In the case of *State of Minnesota v. Porter*, DNA evidence recovered from a firearm and its magazine played a pivotal role in the prosecution's case. The swabbing from the firearm was interpreted as a five-person mixture. While the true number of contributors cannot be known, the DNA profile likely exceeded five contributors, thereby falling outside the validated parameters for STRmix™ interpretation. Despite this, the laboratory proceeded with probabilistic genotyping using STRmix™ and reported a likelihood ratio supporting the hypothesis that the defendant was a contributor rather than not a contributor.

This case illustrates the importance of adhering to validated parameters and providing transparent, scientifically grounded interpretations. When probabilistic genotyping software is used at the edge or outside of its validated limits, it is essential that limitations be clearly disclosed and alternative explanations considered. Returning to the foundational principles of forensic DNA interpretation is critical to ensuring that the resulting conclusions are reliable, scientifically defensible, and ethically communicated.

# DEEP DIVE SESSIONS

The Professional Deep Dive Breakouts are designed to showcase content and topics not typically included in the oral scientific session or poster session categories, but are still of strong interest and importance to the forensic and greater professional communities. These sessions are designed to be highly engaging and interactive with the attendees, focusing on professional development topics, technology use cases, and other content aimed at furthering personal and professional skills and knowledge.

## **DD1      Vicarious Trauma and Cognitive Restructuring in Forensic Professionals: A Comparative Psychometric Study of Risk and Protective Factors**

Thursday, February 12, 2026

4:00 pm – 5:00 pm

CE Hour: 1.0

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WITHDRAWN

# DEEP DIVE SESSIONS

**DD2**      **When Cases Fuel and Fracture: Unraveling the Mental Health Paradox in Forensic Science**

Thursday, February 12, 2026

4:00 pm – 5:00 pm

CE Hour: 1.0

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WITHDRAWN

# DEEP DIVE SESSIONS

## DD3 Mental Health and the Effects of Mass Fatality Response: The COVID-19 Response in New York City

Friday, February 13, 2026

2:30 pm – 3:30 pm

CE Hours: 1.0

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**Justin Z. Goldstein, PhD**

NYC Office of Chief Medical Examiner  
New York City, NY

**Helen S. Alesbury, MA**

NYC Office of Chief Medical Examiner  
New York City, NY

**Learning Objectives:** After attending this presentation, attendees will have a greater understanding of the impacts that responding to COVID-19 had on medical examiner personnel in New York City.

**Impact Statement:** This presentation will impact the forensic science community by providing critical data on how mass fatality response influences practitioner mental health over time through longitudinal survey data.

**Program Description:** Vicarious Trauma (VT) is the secondary traumatization of individuals who interact with others who are experiencing a trauma or crisis. Medical examiner personnel are regularly exposed to VT in their daily activities, not only when conducting casework but also when interacting with families and communities of the deceased. During mass fatality events, these demands increase and occupational interactions may intensify, potentially impacting practitioner wellness. While substantial literature exists regarding the impacts of VT on first responders, fewer studies have addressed the wellness needs of medical examiner staff.1-3 Moreover, no studies have addressed the longitudinal impact of VT in relation to medical examiner mass fatality response. To address this deficit, this research presents quantitative and qualitative data from longitudinal surveys at the New York City Office of Chief Medical Examiner (NYC OCME) from 2019-2023, reporting how non-clinical measures of practitioner wellness changed over time in relation to COVID-19 response.

Four anonymous online surveys were sent to all NYC OCME staff (IRB exemption from NYC Department of Health and Mental Hygiene). Surveys were deployed in 2019, 2020, 2021, and 2023. All surveys included questions about participant demographics, education level, professional experience, department of employment, overtime hours worked, and participant experience responding to mass fatality incidents. Participants were also asked to quantitatively self-report perceived levels of stress, support, happiness, satisfaction, pride, investment, comfort, and burnout. In addition, participants were able to share experiences, comments, and concerns in open-ended formats. Collectively, this approach allowed for both quantitative and qualitative data collection over a four-year study period. Responses were aggregated and analyzed in IBM SPSS (quantitative data) and NVivo 15 software (qualitative data).

Collectively, quantitative and qualitative results speak to a change in practitioner wellbeing in relation to mass fatality response. This research provides a critical perspective into practitioner experiences before, during, and after mass fatality response that can help identify practical strategies for the future development of wellness resources and infrastructure that meets the needs of medical examiner personnel.

# LUNCHEON SEMINARS

*Pre-Registration Required — \$85*

## LS2 Disaster Management for the Forensic Laboratory: A Hurricane Katrina Primer and Retrospective

Thursday, February 12, 2026

12:00 pm – 1:30 pm

CE Hour: 1.0

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### **Anna S. Duggar, PhD**

Loyola University  
New Orleans, LA

**Learning Objectives:** This session will explore the fundamental roles, responsibilities, and needs of forensic laboratories after a disaster, using Hurricane Katrina in New Orleans as a case study. Key points of discussion will include:

- Impacts on laboratories during a natural disaster
- Changing demands on the laboratory and on individual analysts during the immediate response and subsequent recovery
- Ways in which standard disaster preparation and response guidelines may not take into account the particular needs of forensic laboratories.
- Concerns of physical plant, personnel, evidence, and the long-term potential for assistance and recovery will be discussed, as well as opportunities to be found at the center of the crisis.

**Impact Statement:** This presentation will impact the forensic science community by highlighting the benefits of basic disaster preparedness, specifically tailored to the forensic laboratory. Attendees will gain a deeper understanding of the strengths and vulnerabilities of their labs, learn from real-world experiences, and leave the presentation with a foundation for short-term and long-term efforts to prepare for simultaneous response and recovery from natural disasters in future.

**Program Description:** In August 2005, Hurricane Katrina caused catastrophic flooding in New Orleans after federal levees failed, devastating the city and crippling essential services, including the New Orleans Police Department (NOPD). The NOPD Crime Lab and Central Evidence and Property were submerged, halting forensic operations and jeopardizing evidence integrity. While the forensic community is increasingly prepared to respond to major disasters, it is less equipped to function as a victim of such events. This presentation reviews the Crime Lab's experience during and after Katrina, highlighting both individual and collaborative recovery efforts. It encourages labs to adopt a systems-based approach for managing both disaster response and recovery in future crises.

# LUNCHEON SEMINARS

*Pre-Registration Required — \$85*

## LS3 Grizzlies, Guns, and Glaciers: Interesting National Park Death

Thursday, February 12, 2026

12:00 pm – 1:30 pm

CE Hour: 1.0

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### **Tatiana Bihun, MD**

Saint Louis City Medical Examiner's Office  
St. Louis, MO

**Learning Objective:** National Parks fall under various jurisdictions, to include Federal, Local, and Reservation. These different landscapes not only include glaciers, large bodies of water, forests, mountains, caves and deserts, but also encompass all four seasons. Attendees will learn of the complex nuances needed to complete investigations and hear interesting cases that are unique to our National Parks.

**Impact Statement:** Presenting on National Park Deaths will impact the forensic science community by highlighting not only the intricacies of interjurisdictional collaboration to include Local Police, Tribal Police, National Park Rangers, Coroner Offices, and Medical Examiners Offices, but also the challenges of completing death investigations in the absence of a body. It highlights the differences of resources, training, environment, and types of visitors that is unique to each National Park.

**Program Description:** National Parks, located in the United States, are visited by over 300 million people a year. From 2014-2019, a total of 2,149 deaths were recorded. Despite deaths drawing media attention, the parks are relatively safe. Mortality data, collected by the National Park Service, reported a mortality rate of 0.11 per 100,000 recreational visits, substantially lower than the 715 deaths per 100,000 people of the overall United States population. Death investigations that take place in our National Parks cover a multitude of breath takingly beautiful, yet harsh terrains. There are even cases of which that the topography is so harsh, that bodies are not recovered and individuals are "presumed" dead. National Park investigations are also complex in the sense that they often cross not only multiple states, but multiple jurisdictions.

Attendees will hear about multiple cases of National Parks, from Denali National Park in Alaska to Gateway National Park in Missouri. Deaths resulted from multiple different causes, including but not limited to: environmental exposure, accidental firearm discharge, animal attack, airplane crashes, and falls. Cases were shared by Coroners, Death Investigators, and Medical Examiners. Manner of Death was determined by not only autopsy examination, but from thorough scene investigation by either National Park Rangers or other Death Investigators to also include police. These cases also highlight the principle of "presumed dead" and the challenges of body recovery in the setting of rough terrain.

# LUNCHEON SEMINARS

*Pre-Registration Required — \$85*

## LS4 Deriving Forensic Intelligence Using Artificial Intelligence

Friday, February 13, 2026

12:00 pm – 1:30 pm

CE Hour: 1.0

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### Vinicius Lima, PhD

SUNY Albany  
Lafayette, IN

**Learning Objective:** Participants will explore the history of Forensic Intelligence, its application within Forensic Science, and the current and future challenges involved in its practical implementation. We will then discuss how Artificial Intelligence (AI) technologies can support and enhance forensic investigations. This section will also address the limitations and challenges AI faces when applied to forensic contexts. A practical example will be presented to illustrate how AI techniques, particularly those based on Natural Language Processing and simple analytical visualization tools, can be leveraged to extract insights from forensic evidence. It will be shown how such work generates insights including uncovering crime patterns, supporting case linkage analysis, and informing public security policies. The goal of this talk is to introduce the audience to the intersection of Forensic Intelligence and AI, and to foster discussion among interested participants for future contributions in the field.

**Impact Statement:** By gaining a deeper understanding of the Forensic Intelligence landscape and the potential of Artificial intelligence to enhance the field, the audience will be better equipped to expand their knowledge, engage in meaningful discussions, and contribute to future research and innovation in this emerging area.

**Program Description:** This seminar explores the evolution of Forensic Intelligence, which moves beyond the traditional case-by-case forensic approach to a broader, insight-driven analysis of evidence. Despite its potential, real-world adoption faces operational and institutional challenges. The seminar also examines how Artificial Intelligence (AI) — particularly Natural Language Processing (NLP) — can enhance Forensic Intelligence by identifying crime patterns, linking cases, and informing public safety strategies.

A case study from Brazil illustrates how AI can extract actionable insights from crime scene reports. The seminar emphasizes the need for cross-sector collaboration to successfully integrate AI and Forensic Intelligence into forensic practice.

# LUNCHEON SEMINARS

*Pre-Registration Required — \$85*

## LS5 Failure to do the Fundamentals: The Forensic Investigation of the Titan Submersible and OceanGate

Friday, February 13, 2026

12:00 pm – 1:30 pm

CE Hour: 1.0

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### **Bart B. Kemper, PE**

Kemper Engineering Services  
Baton Rouge, LA

**Learning Objective:** The 2023 loss of the Titan submersible and the five fatalities off the coast of Halifax captured the world's attention. The U.S. Coast Guard and National Transportation Safety Board conducted a joint investigation, with the October 2024 Marine Board of Investigation bringing to light many issues regarding CEO Stockton Rush and the OceanGate team. This presentation will provide insight into the information presented during the eight days of testimony.

**Impact Statement:** Attendees will gain knowledge of the sequence of events of the investigation into OceanGate and the Titan submersible implosion. There will be a focus on the Verification, Validation, and Uncertainty Quantification (VVUQ) process, its role in innovation, and how VVUQ is part of the due diligence for applying engineering simulations, including in a forensic investigation. Finally, attendees will gain insight into how to form a successful multidisciplinary team to confront a novel forensic situation.

**Program Description:** This presentation covers the forensic investigation into the June 2023 implosion of OceanGate's submersible, TITAN, during a dive to the Titanic wreck, which killed all five people aboard, including CEO Stockton Rush. OceanGate had previously been praised as a leader in deep-sea exploration, but concerns about its safety practices were raised by industry experts, including engineer Bart Kemper, who had warned the company prior to the disaster.

Kemper, an expert in pressure vessel engineering and forensic analysis, was later asked by the NTSB and US Coast Guard to lead a multidisciplinary review of the recovered evidence. Drawing inspiration from the Challenger shuttle investigation, he assembled a 13-person team to examine the incident from a forensic procedural perspective.

The presentation focuses on the methodology and key forensic aspects of the investigation. Final results are pending official release, so content is limited to information already made public by the Marine Board of Investigation (MBI) and various documentaries.

# LUNCHEON SEMINARS

*Pre-Registration Required — \$85*

## LS6 Postmortem Computed Tomography (PMCT) Basics and Beyond: A Game of Jeopardy for Strong Stomachs

Friday, February 13, 2026

12:00 pm – 1:30 pm

CE Hour: 1.0

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**Jamie M. Elifritz, MD**  
Forensic Radiology Group  
Destin, FL

**Learning Objective:** This presentation will: (1) Introduce fundamental PMCT findings, including pattern recognition, (2) demonstrate the PMCT findings of frequently encountered pathology, (3) strengthen understanding of PMCT basic concepts through engaging case-based examples that integrate radiologic-pathologic correlation, and (4) foster critical thinking in the evaluation of complex and atypical PMCT cases.

**Impact Statement:** This interactive seminar bridges foundational principles with modern imaging technology in a format that is both educational and memorable. By combining case-based learning, peer-reviewed imaging examples, and live audience participation, the session reinforces critical PMCT concepts while emphasizing the responsible application of PMCT in medicolegal death investigations. Attendees will leave with a stronger grasp of PMCT fundamentals, enhanced diagnostic confidence, and a renewed appreciation for collaboration between forensic pathologists and radiologists.

**Program Description:** PMCT Jeopardy is a lively, interactive luncheon seminar that combines forensic education with game-show fun. Aligned with the AAFS 2026 theme, Back to Basics, the session uses a Jeopardy-style format to reinforce core principles of Postmortem CT (PMCT) through real-world cases — ranging from classic findings to bizarre surprises.

Attendees will split into two teams to compete in categories like Classic PMCT Findings, Affairs of the Heart, and You Might Lose Your Lunch. Each case includes brief teaching points, dark humor, and practical takeaways grounded in best practices.

Designed for everyone from PMCT newcomers to seasoned forensic professionals, this fast-paced, case-based event offers education, entertainment, and even prizes — making it a must-attend for anyone wanting to sharpen their skills and enjoy forensic science in a fresh, memorable way.

# WORKSHOPS

*Pre-Registration Required—\$300*

## **W1 Back to Basics: Foundations of Medicolegal Death Investigation**

**Monday, February 9, 2026**

**8:00 am – 5:00 pm**

**CE Hours: 8.0**

**Learning Objectives:** By the end of this workshop, attendees will be able to identify the basic and core responsibilities of medicolegal death investigators, including next-of-kin notifications, scene documentation, and report writing. Attendees will analyze investigative strategies for child deaths, drug-related fatalities, cold case management, and mass fatality response using current national standards. They will demonstrate understanding of interdisciplinary collaboration and apply lessons learned from real case examples to improve investigative accuracy and scene outcomes.

**Impact Statement:** This workshop provides foundational training in medicolegal death investigation, covering next-of-kin notification, scene photography, infant and drug deaths, cold cases, report writing, and mass fatality response. Attendees will learn to apply investigative advancements and national standards, improving documentation, scene outcomes, and multidisciplinary collaboration in complex cases.

**Program Description:** This workshop is designed for both new and experienced medicolegal death investigators. It offers practical, scenario-based training on core responsibilities such as Next-of-Kin notification, scene photography, and report writing. The workshop covers specialized topics like child deaths, drug fatalities, unidentified remains, and mass fatality response, featuring real-world case studies and firsthand insights from high-profile events like the 2013 San Francisco plane crash.

Attendees will explore investigative strategies, new tools such as Forensic Investigative Genetic Genealogy (FIGG), and national standards like SUIDI protocols and ABMDI certification. The event includes interactive case reviews, peer discussions, and a closing panel addressing issues like workforce burnout and ethical response. Participants will also receive digital resources to support continued professional development. The workshop aims to boost confidence, improve investigative skills, and enhance service to the community.

**Target Audience:** Anthropology, Forensic Nursing Science, General, Pathology/Biology

**Knowledge Level:** Basic

*Chair:*

**Kathleen Diebold Hargrave, MA**  
Office of the Regional Medical Examiner  
St. Charles, MO

*Co-Chair:*

**Erin Worrell, BSc**  
Franklin County Forensic Science Center  
Columbus, OH

*Presenters:*

**Kelly Allmeyer, BA**  
Regional Medical Examiner  
Franklin, Jefferson, & St. Charles Counties  
Defiance, MO

**Lisa A. Potteiger-Visconti, BS**  
Medicolegal Death Investigator (*Retired*)  
Harrisburg, PA

**Tara Rick, BA**

Saint Louis City Medical Examiner's Office  
St. Louis, MO

**Michelle Rippy, EdD**

California State University East Bay  
Hayward, CA

**Alisha M. Simpson, MS**

Dauphin County Coroner Office  
Paxinos, PA

# WORKSHOPS

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## **W1      Back to Basics: Foundations of Medicolegal Death Investigation**

### **Program:**

8:00 am - 8:10 am	<b>Welcome/Introductions</b> Kathleen Diebold Hargrave, MA
8:10 am - 9:00 am	<b>Foundations of Death Investigations</b> Lisa Potteiger, BS; Alisha Simpson, MS
9:00 am - 10:00 am	<b>Child Death Investigations</b> Kelly Allmeyer, BA; Kathleen Diebold Hargrave, MA
10:00 am - 11:00 am	<b>Drug-Related Fatalities</b> Erin Worrell, BSc
11:00 am - 12:00 pm	<b>Long-Term Unidentified and Cold Case Management</b> Tara Rick, BA
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 2:00 pm	<b>Mass Fatality Response</b> Michelle Rippy, EdD
2:00 pm - 4:00 pm	<b>Notable Case Presentations</b> All Presenters
4:00 pm - 5:00 pm	<b>Panel Discussion: Emerging Challenges, Q&amp;A, and Closing Remarks</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W2 Intimate Partner Homicide: How to Detect, Investigate, and Prevent Misdiagnosis**

**Monday, February 9, 2026**

**8:00 am – 4:30 pm**

**CE Hours: 6.75**

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**Learning Objectives:** This workshop addresses Intimate Partner Staged Homicides (IPHs) and teaches participants how to recognize, document, investigate, and prosecute IPHs by reinforcing foundational investigative practices and incorporating “new basics” consisting of validated investigation tools. Through case scenarios and subject matter experts, participants will demonstrate the ability to recognize IPH indicators and implement at least three response strategies and four tools that can help triage cases for the need for search warrants, scene processing, autopsies, etc. Attendees will be able to explain at least three types of bias that have contributed to cases being missed and misdiagnosed by all levels of practitioners. Each stage of the process will emphasize the need for a multidisciplinary approach from medicolegal death investigators, forensic pathologists, law enforcement, and prosecutors.

**Impact Statement:** Globally, more than 50% of femicides are committed by current or ex-IPs. (1) In some of these cases, offenders will conceal homicides by disguising them as non-suspicious deaths (i.e., natural, accident, or suicide) or missing person cases, causing misdirection, and impacting case resolution and prosecution. In response to these IPHs, and as many agencies are overwhelmed with cases and underfunded, there is a greater need for validated decision-making and investigation tools. This workshop will: (1) provide crucial background information and training on what IPHs are and how to identify them; (2) when and how to respond to them; and (3) ultimately support more accurate determinations of cause and manner of death, leading to improved justice outcomes for victims and their families.

**Program Description:** This presentation addresses the frequent misdiagnosis of Intimate Partner Homicides (IPHs) and calls on professionals—from patrol officers to forensic pathologists—to return to investigative fundamentals while integrating emerging knowledge. It highlights how IPHs are often overlooked due to bias, premature conclusions, and overreliance on autopsy findings without full consideration of contextual, behavioral, and historical evidence.

Key topics include:

- Offender staging tactics, coercive control, and lethality risk indicators.
- The limitations of relying solely on physical injuries (e.g., ligature marks, blunt force trauma), especially in cases of strangulation, which can be externally undetectable—particularly in victims with darker skin tones.
- The importance of scene assessment and understanding that cause of death (e.g., drowning, overdose) often requires contextual analysis, not just autopsy results.
- The dangers of cognitive and confirmation bias in death investigations.
- The use of validated tools like the Danger Assessment, Joanna’s Law Criteria, and the Monckton Smith IPV Homicide Timeline to guide decision-making and early intervention.

The session encourages multidisciplinary collaboration and the use of specialized resources (e.g., ligature analysis experts, IPV advocates), aiming to improve the accuracy of death classifications and promote justice for victims through evidence-informed and unbiased investigations.

**Target Audience:** General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science

**Knowledge Level:** Intermediate

# WORKSHOPS

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## W2 Intimate Partner Homicide: How to Detect, Investigate, and Prevent Misdiagnosis

*Chair:*

**Andrea Zaferes, MFS**  
Dutchess County  
Medical Examiner's Office/FACT  
Shokan, NY

**Kristen E.L. Edwards-Bova, BS**  
Larimer County Coroner's Office  
Fort Collins, CO

**James K. Roberts, APM**  
Bingham County Coroner's Office  
Blackfoot, ID

*Co-Chair:*

**Jan M. Gorniak, DO**  
World Peace Forensic Consulting, LLC  
Tallahassee, FL

**Joni E. Johnston, PsyD**  
Del Mar, CA

**Kenneth Rosgen**  
Polk County Medical Examiner's Office  
Dallas, OR

*Presenters:*

**Micaela A. Ascolese, MS**  
RTI International  
Durham, NC

**Kiersten Reif, BA**  
Bannockburn Police Department  
Bannockburn, IL

**Paul S. Uribe, MD**  
Fort Bend County Medical Examiner Office  
Richmond, TX

**Program:**

8:00 am - 9:00 am	<b>Welcome, Introductions (Presenters and Attendees), Learning Objectives, and the Impacts of Missed and Misdiagnosed IPHs</b> Andrea Zaferes, MFS; James (Jimmy) Roberts, APM
9:00 am - 9:30 am	<b>The Epidemiology and Demographics of Suicides, Drownings, Overdoses, IPHs, Non-Fatal IP Abuse</b> James (Jimmy) Roberts, APM; Micaela Ascolese, MS
9:30 am - 9:40 am	<b>BREAK</b>
9:40 am - 9:50 am	<b>Conceptual Toolkit (e.g., "Abuse" v. "Violence"), "New Basics!"</b> Kelsey McKay, JD
9:50 am - 10:00 am	<b>Contrasting IP and General Population Suicides — and Why It Matters</b> Joni Johnston, PsyD
10:00 am - 10:20 am	<b>A Case Scenario With Audience Participation</b>
10:20 am - 10:30 am	<b>The Asphyxiation Journey</b> Andrea Zaferes, MFS; Jan Gorniak, DO
10:30 am - 10:45 am	<b>The Pathophysiology of Asphyxiation — Are There Always Fatal Anatomical Findings or Even Any Internal/External Injuries?</b> Paul Uribe, MD; Jan Gorniak, DO
10:45 am - 11:00 am	<b>A Serial Killer Case Scenario With Audience Participation</b> Kenneth Rosgen
11:00 am - 11:10 am	<b>BREAK</b>
11:10 am - 12:00 pm	<b>The Validated DA Tool: How and Why It Was Developed Application to a Misdiagnosed Case Scenario</b> Joni Johnston, PsyD; Kiersten Reif, BA
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:30 pm	<b>Different Types of Biases and Controversies in Medicolegal Death Investigations Such as Contextual Information in Autopsies v. Black Box Autopsies</b> Paul Uribe, MD

# WORKSHOPS

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## W2 Intimate Partner Homicide: How to Detect, Investigate, and Prevent Misdiagnosis

### Program cont.:

- 1:30 pm - 1:45 pm **Autopsy Protocols Guided by Context: When Are Posterior Dissections and SAKs Warranted?**  
Jan Gorniak, DO; Paul Uribe, MD
- 1:45 pm - 2:00 pm **BREAK**
- 2:00 pm - 2:30 pm **“She’s Been Threatening This for Months”: Unmasking Staged Suicides Through Evidence-Based Risk Assessment. Physical Evidence Associated With, but Not Attached to, the Body. Suicide/Homicide Timelines, Joanna’s Law (Data — How Was It Validated?)**  
Joni Johnston, PsyD; Andrea Zaferes, MFS
- 2:30 pm - 3:00 pm **A Case Scenario Applying All Three Tools**  
Kenneth Rosgen
- 3:00 pm - 3:15 pm **BREAK**
- 3:15 pm - 3:30 pm **Practical Tool Applications by MDIs and Law Enforcement Officers**  
Kiersten Reif, BA; Kristen Edwards-Bova, BS; James (Jimmy) Roberts, APM
- 3:30 pm - 4:00 pm **Integrating ME/C Determinations, LE Investigation Findings, and MDT Findings Into Jurisprudence Decision-Making and Prosecutions**  
Kelsey McKay, JD
- 4:00 pm - 4:30 pm **Conclusion and Calls to Action**  
Panel Discussion

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W3 Pediatric Neuropathology in Forensic Practice**

**Monday, February 9, 2026**

**8:00 am – 12:00 pm**

**CE Hours: 3.5**

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**Learning Objectives:** Through collaborative insights from multiple experts in the field, attendees will gain practical knowledge and diagnostic strategies related to perinatal and pediatric neuropathology, applicable to forensic autopsy examination in all age groups. Learning objectives included in this talk include the following: (1) understand and describe developmental and acquired neuropathology resulting in immediate or delayed death; (2) describe neuropathologic evaluation in seizure disorders, trauma, and the utility of ancillary stains for microscopic examination; and (3) summarize the role of advanced diagnostic tools, including molecular testing and postmortem imaging, and assess their practical utility and limitations in the forensic evaluation of pediatric and perinatal deaths.

**Impact Statement:** This knowledge will impact the forensic science community by enhancing the understanding of developmental neuropathology, sample collection, diagnostic criteria, and interpretation of common neuropathologic findings in perinatal and pediatric autopsies that can also be implicated as a cause of death in later age groups. By fostering a comprehensive and systematic approach, the session aims to advance the field of forensic neuropathology and support multidisciplinary collaboration.

**Program Description:** This half-day workshop offers a practical introduction to pediatric and perinatal forensic neuropathology, tailored for forensic pathologists of all experience levels. It focuses on building core skills such as:

- Recognizing normal vs. abnormal brain development
- Proper tissue selection, dissection, and fixation techniques
- Differentiating age-appropriate structures from anomalies
- Evaluating conditions like epilepsy and pediatric trauma (inflicted and accidental)

Participants will learn when to preserve the brain for deferred exams and how to document findings effectively to support clear, defensible cause-of-death determinations, including in SUID/SUDC cases. The workshop features case-based learning, histologic/gross images, and practical handouts, providing a systematic, confidence-building approach to pediatric neuropathology in forensic autopsies.

**Target Audience:** Pathology/Biology

*Chair:*

**Melissa M. Blessing, DO**

Johnson County Medical Examiner and  
University of Iowa Health Care  
Iowa City, IA

*Co-Chair:*

**Jolee Suddock, DO**

Office of the Chief Medical Examiner  
Oklahoma City, OK

*Presenters:*

**Jared T. Ahrendsen, MD, PhD**

Northwestern University  
Feinberg School of Medicine  
Chicago, IL

**Rebecca D. Folkerth, MD**

MooseHenge Medical Consulting  
High Falls, NY

**Michael Harrell, MD**

Office of the Chief Medical Examiner  
Oklahoma City, OK

**Lorraina J. Robinson, DO**

University of Oklahoma  
Oklahoma City, OK

# WORKSHOPS

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## W3 Pediatric Neuropathology in Forensic Practice

### Program:

8:00 am - 8:10 am	<b>Introduction</b> Jolee Suddock, DO; Melissa Blessing, DO
8:10 am - 8:40 am	<b>Perinatal and Pediatric Neuropathology in Forensic Practice: Evaluation, Sampling, and Interpretation</b> Jolee Suddock, DO
8:40 am - 9:10 am	<b>An Overview of Common Developmental and Acquired Anomalies</b> Rebecca Folkerth, MD
9:10 am - 9:40 am	<b>Neuropathology of Pediatric Seizure Disorders: Diagnosis, Mimics, and Medicolegal Implications</b> Lorraina Robinson, DO
9:40 am - 9:55 am	<b>BREAK</b>
9:55 am - 10:25 am	<b>Forensic Neuropathology of Pediatric Trauma</b> Jared Ahrendsen, MD, PhD
10:25 am - 10:55 am	<b>Postmortem Pediatric Neuroimaging: Modalities and Interpretation</b> Michael Harrell, MD
10:55 am - 11:25 am	<b>The Future of Developmental Neuropathology: Molecular Testing and Other Technological Advancements in Postmortem Diagnostics</b> Melissa Blessing, DO
11:25 am - 11:55 am	<b>Case-Based Approaches to Developmental and Pediatric Neuropathology in Forensic Practice</b> Melissa Blessing, DO; Jolee Suddock, DO
11:55 am - 12:00 pm	<b>Closing Statements</b>

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W4**      **Fundamentals of Blast, Blast Effects, and Forensic Investigations**

**Monday, February 9, 2026**

**8:30 am – 12:00 pm**

**CE Hours: 3.0**

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**Learning Objectives:** Attendees of this workshop will learn about different types of blast, the type of damage and injuries blast can cause (“blast effects”), and how to apply the information as key elements of investigating a blast event.

**Impact Statement:** This workshop will impact the forensic science community’s practice by introducing foundational concepts regarding blast and blast effects in order to provide a framework for a better understanding of forensic investigations involving blast and blast effects.

**Program Description:** This introductory-level workshop explores the medical and engineering principles of blast events, covering a wide range of explosion types—including accidental, industrial, criminal, military, and terroristic incidents. It emphasizes that blasts are not limited to military or terrorist contexts and highlights real-world data: over 770 explosions, 320 bombings, and 18,000+ explosive-related incidents were reported in 2023 alone.

Key topics include:

- The anatomy of a blast wave
- Differences between high- and low-explosives
- Hazards from fragments, projectiles, and explosive environments (e.g., gas leaks, medical gases)
- Forensic methods and tools, including blast modeling programs

Participants will apply their knowledge during a hands-on “petting zoo” session, examining real-world blast fragments, case summaries, and protective armor failures in small groups. The workshop focuses on hazard recognition, scene investigation, and prevention, without covering how to construct explosive devices. It aims to enhance forensic professionals’ ability to identify, investigate, and respond to explosive-related incidents effectively.

**Target Audience:** Criminalistics, Engineering & Applied Sciences, Forensic Nursing Science, Pathology/Biology

**Knowledge Level:** Basic

*Chair:*

**Bart B. Kemper, PE**  
Kemper Engineering Services  
Baton Rouge, LA

*Co-Chair:*

**Paul Messner, JD**  
FBI  
Dry Ridge, KY

*Presenters:*

**William Sayin, BSME**  
Booz Allen and Hamilton  
Baton Rouge, LA

**Krista Wohlfeil**  
Kemper Engineering Services  
Baton Rouge, LA

# WORKSHOPS

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## **W4**      **Fundamentals of Blast, Blast Effects, and Forensic Investigations**

### **Program:**

8:30 am - 8:45 am	<b>Introduction and Background</b> Paul Messner, JD
8:45 am - 9:15 am	<b>An Introduction to Explosive Hazards</b> William Sayin
9:15 am - 10:00 am	<b>Blast: What It Is and What It Isn't</b> Bart Kemper, PE
10:00 am - 10:15 am	<b>BREAK and "Petting Zoo" (exemplars from the field)</b>
10:15 am - 11:00 am	<b>Blast Effects: Waves, Frags, Projectiles, and Other Effects</b> Bart Kemper, PE
11:00 am - 11:45 am	<b>Digging In and Digging Out: The Forensic Work</b> Bart Kemper, PE
11:45 am - 12:00 pm	<b>Standards, Wrap-Up, and Q&amp;A</b> Krista Wohlfeil

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W5 Back to Mass Spectrometry Basics: Analysis and Spectral Interpretation**

**Monday, February 9, 2026**

**8:30 am – 5:00 pm**

**CE Hours: 7.0**

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**Learning Objectives:** During this workshop, attendees will learn the fundamental principles of mass spectrometry and spectral interpretation. This will include an understanding of the main components of the mass spectrometer, ionization, separation, and detection. The attendees will learn techniques for small molecule structure elucidation such as identification of the molecular ion, elemental composition, and the analysis of basic fragmentation patterns.

**Impact Statement:** This workshop will impact the forensic science community by providing an educational opportunity for new forensic scientists to expand their understanding of mass spectrometry and offer a refresher course for more seasoned chemists. The goals of this workshop are to increase the attendees' working knowledge of the mass spectrometer while improving their ability to recognize and interpret mass spectra, thereby increasing their confidence in compound identification.

**Program Description:** This workshop, part of the "Back to Mass Spectrometry Basics" series, offers a foundational and practical overview of mass spectrometry as it applies to forensic drug analysis and toxicology, with a focus on identifying Novel Psychoactive Substances (NPS).

Key topics include:

- Core principles of mass spectrometry: how ions are generated, separated by mass-to-charge ratio ( $m/z$ ), and detected
- Use of Electron Ionization/Mass Spectrometry (EI/MS) for structure elucidation
- Interpretation of mass spectra, including molecular ions, base peaks, isotopic distributions, and the nitrogen rule
- Understanding fragmentation mechanisms (e.g., sigma/alpha cleavages, neutral losses)
- Differences in odd- vs. even-electron ion behavior

The afternoon features interactive exercises using real-world NPS cases to reinforce learning. The session concludes with a review of spectral libraries, interpretation tools, and complementary techniques like ESI-MS and DART-MS, providing participants with a practical toolkit for forensic compound identification.

**Target Audience:** Criminalistics, General, Toxicology

**Knowledge Level:** Basic

*Chair:*

**Sandra E. Rodriguez-Cruz, PhD**

DEA Special Testing and Research Laboratory  
Dulles, VA

*Co-Chair:*

**Matthew R. Wood, PhD**

Ocean County Sheriffs Office  
Toms River, NJ

# WORKSHOPS

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## W5 Back to Mass Spectrometry Basics: Analysis and Spectral Interpretation

### Program:

8:30 am - 8:35 am	<b>Welcome and Introductions</b> Matthew Wood, PhD; Sandra Ridriguez-Cruz, PhD
8:35 am - 9:00 am	<b>The Mass Spectrometer</b> Matthew Wood, PhD
9:00 am - 9:30 am	<b>Sample Delivery/Introduction</b> Matthew Wood, PhD
9:30 am - 10:00 am	<b>Making Ions</b> Matthew Wood, PhD
10:00 am - 10:10 am	<b>BREAK</b>
10:10 am - 11:00 am	<b>Interpreting the Mass Spectrum</b> Sandra Ridriguez-Cruz, PhD
11:00 am - 12:00 pm	<b>Common EI-MS Fragmentation Patterns</b> Sandra Ridriguez-Cruz, PhD
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:50 pm	<b>Fragmentation Exercises</b> Matthew Wood, PhD
1:50 pm - 2:50 pm	<b>Structure Elucidation Examples</b> Sandra Ridriguez-Cruz, PhD
2:50 pm - 3:00 pm	<b>BREAK</b>
3:00 pm - 3:55 pm	<b>MS Libraries and MS Interpretation Tools</b> Sandra Ridriguez-Cruz, PhD
3:55 pm - 4:50 pm	<b>Beyond EI-MS</b> Sandra Ridriguez-Cruz, PhD
4:50 pm - 5:00 pm	<b>Closing Remarks</b> Matthew Wood, PhD; Sandra Ridriguez-Cruz, PhD

# WORKSHOPS

*Pre-Registration Required—\$165*

## **W6 Ketamine: The Clinical Renaissance and Traffic Safety Implications**

**Monday, February 9, 2026**

**8:00 am – 12:00 pm**

**CE Hours: 3.5**

**Learning Objectives:** Attendees will gain an understanding of the reason for the recent surge of interest in ketamine for promising new clinical applications and potential for misuse. Participants will: (1) become familiar with the increased research and prevalence of ketamine in the United States; (2) understand the basic pharmacology of ketamine; (3) gain insight into the most recent clinical research, appropriate use, and potential risks of ketamine; (4) appreciate the implications of side effects to human performance; and (5) recognize the presentation of impairment of normal faculties in subjects consistent with ketamine use and the impact to traffic safety.

**Impact Statement:** An impact to the forensic science community will be accomplished by increasing attendees' understanding of the clinical applications and potential adverse effects of ketamine. As the use of ketamine has increased significantly in the past ten years, practitioners will be better prepared to recognize both the beneficial effects and adverse events that it may produce.

**Program Description:** Ketamine has been in clinical use since the 1960s as a general anesthetic. The past ten years have marked a period of vigorous research activity into new clinical applications for ketamine. This includes low-dose administration in concert with therapy for treatment-resistant depression, pain management, and addiction. Along with this period of increased academic research and clinical use has come a corresponding growth in public interest and recreational use. Over the past decade, the number of ketamine drug possession cases submitted to crime laboratories in the United States has increased by three-fold. Recent illicit preparations include "pink cocaine," most commonly a mixture of ketamine and Methylenedioxymethamphetamine (MDMA).

The basics of ketamine will be introduced, from its development and continued primary use as a general anesthetic to the recent clinical applications for low-dose administration. Current understanding on the pharmacodynamics and pharmacokinetics will be discussed to frame the scope of effects and their duration while recognizing the remaining knowledge gaps on its mechanisms of action. An objective overview of the benefits and risks of ketamine use will conclude with the implication for traffic and other safety concerns discussed through a presentation of authentic cases. Get back to basics and advance your knowledge with a first-hand instruction on the bedrock scientific research by a leader in the field and Medical Director of the Yale Depression Research Program. This is a Society of Forensic Toxicologists/American Academy of Forensic Sciences (SOFT/AAFS) Drugs and Driving Committee-sponsored workshop.

**Target Audience:** Criminalistics, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science, Toxicology

**Knowledge Level:** Basic

*Chair:*

**Nicholas B. Tiscione, MS**  
Palm Beach County Sheriff's Office  
West Palm Beach, FL

*Co-Chair:*

**Corina Freitas, MD**  
Freitas and Associates LLC  
Alexandria, VA

*Presenters:*

**Rebecca L. Hartman, PhD**  
Monroe County Office of the Medical Examiner  
Rochester, NY

**Svante Vikingsson, PhD**

RTI International  
Research Triangle Park, NC

**Samuel Wilkinson, MD**

Yale School of Medicine  
Yale Depression Research Program  
New Haven, CT

**Edward X. Zumaeta, MS**

Palm Beach County Sheriff's Office  
West Palm Beach, FL

# WORKSHOPS

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## **W6      Ketamine: The Clinical Renaissance and Traffic Safety Implications**

### **Program:**

8:00 am - 8:15 am	<b>Introduction: Increasing Interest and Prevalence of Ketamine</b> Nicholas B. Tiscione, MS
8:15 am - 8:45 am	<b>Pharmacology: The Pharmacodynamics, Pharmacokinetics, and Chemistry of Ketamine</b> Svante Vikingsson, PhD
8:45 am - 9:45 am	<b>Clinical Applications and Recent Research: Ketamine for Treatment-Resistant Depression</b> Samuel T. Wilkinson, MD
9:45 am - 10:00 am	<b>BREAK</b>
10:00 am - 10:40 am	<b>Clinical Applications and Recent Research: Ketamine for Pain Management and Addiction</b> Corina Freitas, MD
10:40 am - 11:10 am	<b>The Potential for Adverse Events: The Impact to Cognitive, Motor, and Driving Ability</b> Rebecca L. Hartman, PhD
11:10 am - 11:50 am	<b>Forensic Toxicology: Impaired Driving Case Reports</b> Edward X. Zumaeta, MS
11:50 am - 12:00 pm	<b>Questions and Answers</b>

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W8      A Multiagency Response to the Mid-Air Collision: A Strategic Approach and Lessons Learned**

**Monday, February 9, 2026**

**8:30 am – 4:30 pm**

**CE Hours: 6.5**

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**Learning Objectives:** Through lectures and panel discussions, workshop attendees will learn detailed information about the multiagency successful response to and processing of the January 2025 mid-air collision at the Ronald Reagan Washington National Airport. The involvement of a military helicopter and commercial airline as well as the incident location in the Potomac River triggered a multi-jurisdictional response involving local, state, federal and non-governmental agencies. Attendees will learn from incident responders the challenges faced, and strategic solutions implemented to recover, examine, identify, and return victims to their loved ones in a timely and dignified manner.

**Impact Statement:** The information provided during this workshop will impact the forensic science community by highlighting the challenges faced during a multi-jurisdictional response to a mass disaster. The content will include quickly devised response plans allowing operations to ramp up while maintaining daily workloads as well as innovative solutions taken to identify and reassociate victim remains.

**Program Description:** This workshop provides an in-depth review of the multi-agency response to the January 29, 2025 mid-air collision between an American Airlines commercial flight and a U.S. Army helicopter near Ronald Reagan Washington National Airport, which resulted in 67 fatalities. The crash created a complex recovery environment across both water and land.

The workshop is structured into three main components, each led by experts directly involved in the disaster response:

### **1. Facilitating External Operations**

- Focuses on leadership, incident command, media/family communication, and interagency coordination.
- Includes insights from the DC Chief Medical Examiner, National Transportation Safety Board (NTSB), and medicolegal investigators.

### **2. Maintaining Mortuary Operations**

- Details how the DC OCME scaled up to handle the mass fatality event while managing daily caseloads.
- Covers integration of DMORT, FBI, and forensic anthropologists for identification and fragment reassociation.

### **3. The Role of DNA**

- Highlights the combined use of Rapid and traditional DNA analysis to identify victims.
- Includes presentations from the DC Department of Forensic Sciences (DFS) and BODE laboratory on contract setup, analysis workflows, and innovative reporting methods that enabled sample processing within 48 hours.

The workshop also features two expert panels and emphasizes interdisciplinary coordination, rapid response, and best practices in mass fatality management.

**Target Audience:** Anthropology, General, Pathology/Biology

**Knowledge Level:** Basic

# WORKSHOPS

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## **W8 A Multiagency Response to the Mid-Air Collision: A Strategic Approach and Lessons Learned**

### *Chair:*

**Jennifer C. Love, PhD**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Mike Cariola, MFS**

Bode Technology  
Lorton, VA

**Krystyna Hopkinson, MScFS**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

### *Co-Chair:*

**Micayla Spiros, PhD**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Carley Chwal, MSFS**

Bode Technology  
Lorton, VA

**Katherine Hyun Kim, MS**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

### *Presenters:*

**Sara Achrati, MD**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Francisco C. Diaz, MD**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Lalynn G. Kurash, MS**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Julie Ferragut, BS**

DC Office of the Chief Medical Examiner  
Department of Forensic Sciences  
Washington, DC

**Daniel Morgan, MFS**

National Transportation Safety Board  
Washington, DC

### **Program:**

#### **Facilitating External Operations**

8:30 am - 9:40 am **Responding to the Mid-Air Crash: A Director's Perspective**  
Francisco C. Diaz, MD

9:40 am - 10:20 am **National Transportation Safety Board**  
Daniel Morgan, MFS

10:20 am - 10:40 am **BREAK**

10:40 am - 11:20 am **Responding to the Incident Site: A Medicolegal Death Investigator's Perspective**  
Lalynn Kurash, MS

11:20 am - 12:00 pm **The Role of Medicolegal Death Investigator at the Family Assistance Center**  
Katherine Kim, MS

12:00 pm - 1:00 pm **BREAK**

#### **Maintaining Mortuary Operations**

1:00 pm - 1:40 pm **Responding to a Mass Fatality Event: A Medical Examiner's Perspective**  
Sara Achrati, MD

1:40 pm - 2:20 pm **Decedent Identification: The Role of the Anthropologist**  
Micayla Spiros, PhD

2:20 pm - 2:40 pm **BREAK**

#### **The Role of DNA**

2:40 pm - 3:20 pm **The Role of Rapid DNA for Victim Identification**  
Mike Cariola, MFS; Krystyna Hopkinson, MScFS

3:20 pm - 4:00 pm **Reassociation of Fragmentary Remains: A DNA Laboratory's Response**  
Julie Ferragut, BS

4:00 pm - 4:30 pm **Panel Discussion**

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W9 Investigating the Unsolved: Building Cold Case Programs Through Academic and Law Enforcement Partnerships**

**Monday, February 9, 2026**

**8:30 am – 4:30 pm**

**CE Hours: 6.0**

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**Learning Objectives:** By the end of this presentation, attendees will be able to design and implement a sustainable cold case program within a higher education institution. They will identify at least three open-source or intelligence-based investigative tools available in academic settings and demonstrate how to apply them in collaboration with law enforcement. Attendees will also be able to articulate the measurable benefits of student-law enforcement partnerships on both case outcomes and student competency development.

**Impact Statement:** This presentation will enhance the forensic science community's competence by equipping educators and students with practical frameworks to implement cold case programs in higher education, leveraging academic resources and investigative training. It will improve performance by fostering collaborative partnerships between colleges and law enforcement, enabling students to apply investigative techniques and open-source intelligence tools to real cases. Ultimately, these efforts can lead to meaningful stakeholder outcomes by supporting case resolution, delivering justice, and advancing public trust in forensic practices.

**Program Description:** This workshop explores how academic institutions can support unsolved case investigations through the creation of cold case programs. Aimed at educators, law enforcement, and forensic professionals, it offers a step-by-step guide for launching and sustaining initiatives that combine student involvement, faculty oversight, and agency collaboration.

Key topics include:

- Integrating forensic science fundamentals (e.g., evidence-based reasoning, chain of custody, scene integrity) into student-led work
- Teaching objectivity, critical thinking, and the scientific method in real-world contexts
- Utilizing open-source tools like public records, social media, and research databases
- Managing confidentiality, case selection, funding, and alignment with academic goals

The session includes interactive case studies and provides a resource toolkit (syllabi, planning guides, checklists, and templates) for immediate implementation. The workshop highlights how these programs benefit both students—by enhancing forensic and investigative skills—and law enforcement—by providing meaningful support for long-dormant investigations.

**Target Audience:** Engineering & Applied Sciences, General, Jurisprudence, Psychiatry & Behavioral Science

**Knowledge Level:** Basic

*Chair:*

**Sharon K. Moses, PhD**  
Northern Arizona University  
Flagstaff, AZ

*Presenters:*

**Maylynn Burns**  
Embry-Riddle Aeronautical University  
Prescott, AZ

**Kelly Crockett, MSFS**

Embry-Riddle Aeronautical University  
Prescott, AZ

*Co-Chair:*

**Jalika Waugh, PhD**  
Pinellas County Schools  
Largo, FL

**Edwin S. Cochran, MA**

Embry Riddle Aeronautical University  
Prescott, AZ

# WORKSHOPS

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## **W9 Investigating the Unsolved: Building Cold Case Programs Through Academic and Law Enforcement Partnerships**

### **Program:**

8:30 am - 8:45 am	<b>Welcome/Introductions</b> All Presenters
8:45 am - 9:30 am	<b>Investigating Cold Cases in an Academic Environment</b> Kelly Crockett, MFS; Maylynn Burns
9:30 am - 10:15 am	<b>Structuring a Cold Case Program in High Education</b> Kelly Crockett, MFS; Maylynn Burns
10:15 am - 10:30 am	<b>BREAK</b>
10:30 am - 11:15 am	<b>Partnering With Law Enforcement</b> Kelly Crockett, MFS; Maylynn Burns
11:15 am - 12:00 pm	<b>Objectivity and Ethics in Cold Case Investigations</b> Kelly Crockett, MFS; Maylynn Burns
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:45 pm	<b>Open-Source Intelligence and Academic Resources in Investigations</b> Maylynn Burns; Kelly Crockett, MFS
1:45 pm - 2:30 pm	<b>Case Selection, Confidentiality, and Oversight</b> Kelly Crockett, MFS; Maylynn Burns
2:30 pm - 2:45 pm	<b>BREAK</b>
2:45 pm - 3:30 pm	<b>Student Impact Presentation</b> Maylynn Burns
3:30 pm - 4:15 pm	<b>Interactive Case Study and Group Discussion</b> All Presenters
4:15 pm - 4:30 pm	<b>Closing Remarks and Q&amp;A</b> All Presenters

# WORKSHOPS

*Pre-Registration Required—\$300*

## **W10 Behind the Evidence: The Impact of Vicarious Trauma in the Forensic Science Community**

**Monday, February 9, 2026**

**8:30 am – 5:00 pm**

**CE Hours: 6.5**

**Learning Objectives:** This workshop is designed to help the forensic sciences community understand the serious implications of work-related stress. In the forensic sciences, work-related stress can lead to emotional burnout, physical illness (high blood pressure), and psychological effects like PTSD, depression, anxiety, and hypervigilance. These emotional and physical reactions may surface after one difficult case or after decades on the job. This workshop will include recommendations based on the academic literature, anecdotal stories, and open discussion on how to recognize the impact of trauma, build resiliency, and reduce mental health stigmas and barriers to help-seeking within the forensic science community.

**Impact Statement:** This workshop will impact the forensic sciences community by addressing mental health and well-being by discussing work-related stress, vicarious trauma, healthy and unhealthy coping mechanisms, and ways in which we can build resiliency and reduce mental health stigmas within our community.

**Program Description:** This workshop addresses the often-overlooked issue of work-related stress in forensic science, highlighting its serious emotional, physical, and psychological impacts—including burnout, Post-Traumatic Stress Disorder (PTSD), anxiety, depression, and hypervigilance. While stress among law enforcement has been widely studied, the forensic sciences community remains underrepresented in this research despite facing similar exposure to trauma.

Key topics include:

- How stress affects forensic professionals across all career stages and personal circumstances
- The ripple effect of trauma on colleagues, families, and students in academic programs
- Strategies to recognize trauma, build resilience, and reduce mental health stigma

The session combines research insights, personal stories, and open discussion, and features a diverse panel representing different sectors of the American Academy of Forensic Sciences. The goal is to foster a healthier, more supportive professional environment and promote help-seeking behaviors within the field.

**Target Audience:** All Sections

**Knowledge Level:** Basic

*Chair:*

**Kathryn Seigfried-Spellar, PhD**  
Michigan State University East  
Lansing, MI

**Zain Bhaloo, MSc**

Canada Border Services Agency  
Ottawa, Ontario  
Canada

**Liam Johnson, MA**

University of Nevada, Las Vegas  
Las Vegas, NV

*Co-Chair:*

**Katharine Pope, MA**  
SNA International  
(supporting the DPAA mission)  
Fruitland, MD

**Carole E. Chaski, PhD**

Institute for Linguistic Evidence  
Georgetown, DD

**John P. Kenney, DDS, MS, DDS**

Davidson County  
TN Medical Examiner's Office  
Nashville, TN

*Presenters:*

**Sarah Avedschmidt, MD**  
Sacramento, CA

**Justin Z. Goldstein, PhD**

NYC Office of Chief Medical Examiner  
New York City, NY

**Pamela Marshall, PhD**

Duquesne University  
Pittsburgh, PA

**Krystal R. Hans, PhD**

Purdue University  
West Lafayette, IN

**Kenneth E. Melson, JD**

U.S. Department of Justice (*Retired*)  
Kinsale, VA

# WORKSHOPS

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## **W10 Behind the Evidence: The Impact of Vicarious Trauma in the Forensic Science Community**

**Mariah E. Moe, PhD**  
Texas State University  
San Marcos, TX

**Lara Newell, MA**  
Virginia Office of the Chief Medical  
Examiner  
Richmond, VA

**Peter Stout, PhD**  
Houston Forensic Science Center  
Houston, TX

**Jessica L. Morel, DO**  
Integrity Psychiatric Services PLLC  
Fayetteville, NC

**Joseph D. Remy, JD**  
National White Collar Crime Center  
Barrington, NJ

**Joe C. Trevino, III, DFS**  
New York Police Department  
Sunnyside, NY

### **Program:**

- 8:30 am - 8:45 am **Welcome/Introductions**  
Joanna Collins, MFS
- 8:45 am - 9:45 am **Understanding Burnout, Vicarious Trauma, Coping Mechanisms, and Mental Health Stigma**  
Jessica Morel, DO; Kate Seigfried-Spellar, PhD
- 9:45 am - 10:30 am **Findings From the Academy-Wide Vicarious Trauma Survey**  
Kate Seigfried-Spellar, PhD
- 10:30 am - 10:45 am **BREAK**
- 10:45 am - 11:30 am **Panel: Organizational Support, Overcoming Stigma, and Policy Considerations for Building Resiliency**  
Joe Remy, JD; Peter Stout, PhD; Pamala Marshall, PhD; John Kenny, DDS
- 11:30 am - 12:00 pm **Morning Wrap-Up and Questions and Answers**  
Katharine Pope, MA
- 12:00 pm - 1:15 pm **BREAK**
- 1:15 pm - 1:45 pm **The Impact of Trauma on Our Family and Friends**  
Sarah E. Avedschmidt, MD; Joseph D. Remy, JD
- 1:45 pm - 2:15 pm **Vicarious Trauma From Interacting With the Living**  
Lara Newell, MA; Anita Roman, BS
- 2:15 pm - 3:15 pm **Panel: Academic Stress and Emotionally Demanding Research**  
Liam Johnson, MA; Justin Goldstein, PhD; Mariah Moe, PhD; Joe Treviño, DFS; Krystal Hans, PhD
- 3:15 pm - 3:30 pm **BREAK**
- 3:30 pm - 4:00 pm **"It's Just Text and Paper": How Bad Can It Really Be?**  
Carole Chaski, PhD; Zain Bhaloo, MSc
- 4:00 pm - 5:00 pm **Afternoon Wrap-Up and Questions and Answers**  
Ken Melson, JD

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W11 From Past to Present: Forensic Entomology Methods That Have Stood the Test of Time**

**Monday, February 9, 2026**

**8:30 am – 5:30 pm**

**CE Hours: 6.25**

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**Learning Objectives:** Attendees will gain a comprehensive understanding of the application of forensic entomology in medicolegal death investigations. They will learn to differentiate between Postmortem Interval (PMI), minimum Postmortem Interval (PMImin), and maximum Postmortem Interval (PMImax), understand insect succession and development, and apply this knowledge to **real-world casework. Hands-on demonstrations will reinforce proper collection and preservation techniques.**

**Impact Statement:** This workshop will enhance the competence of forensic professionals by deepening their understanding of entomological evidence and its interpretation. It will improve performance in the field and laboratory by reinforcing best practices in evidence collection and analysis. Ultimately, it will contribute to more accurate PMI estimations and stronger courtroom testimony, benefiting stakeholders in the justice system.

**Program Description:** This workshop focuses on the enduring value of forensic entomology in death investigations, especially for estimating the PMI. Designed for forensic professionals, attorneys, investigators, and students, the session combines scientific principles, legal considerations, and practical skills.

Key topics include:

- Insect development, succession patterns, and the effect of temperature
- Proper collection, analysis, and preservation of insect evidence
- How entomological findings are presented and challenged in court, with emphasis on precise language and defensible conclusions

The workshop includes interactive lectures, real case studies, and a hands-on session for practical experience, plus a panel discussion on current challenges and the future of the field. It emphasizes standardized, proven methods and their critical role in both investigative and legal outcomes.

**Target Audience:** Anthropology, Criminalistics, General, Jurisprudence, Pathology/Biology

**Knowledge Level:** Basic

*Chair:*

**Lavinia Iancu, PhD**  
University of North Dakota  
Grand Forks, ND

*Presenters:*

**Christine M. Bogan, JD**  
Professional Consultant  
Rensselaer, IN

**Olivia Minello, BS**

Las Vegas Metropolitan Police Department  
CSI  
Las Vegas, NV

*Co-Chair:*

**Jeffrey D. Wells, PhD**  
Florida International University  
Miami, FL

**Neal H. Haskell, PhD**  
Forensic Entomology Investigations  
Rensselaer, IN

**Amanda Roe, PhD**  
College of Saint Mary  
Omaha, NE

**Leon G. Higley, PhD**  
University of Nebraska-Lincoln  
Lincoln, NE

# WORKSHOPS

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## **W11 From Past to Present: Forensic Entomology Methods That Have Stood the Test of Time**

### **Program:**

8:30 am - 8:45 am	<b>Welcome and Introduction</b> Lavinia Iancu, PhD; Jeffrey Wells, PhD
8:45 am - 9:30 am	<b>PMI/PMImin/PMI max, and Related Terms</b> Jeffrey Wells, PhD
9:30 am - 10:15 am	<b>Case Studies in Forensic Entomology</b> Neal Haskell, PhD
10:15 am - 10:30 am	<b>BREAK</b>
10:30 am - 11:15 am	<b>The Attorney's Perspective on Entomological Evidence</b> Christine Bogan, JD
11:15 am - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:45 pm	<b>The CSI's Perspective on Entomological Evidence</b> Olivia Minello, BS
1:45 pm - 2:30 pm	<b>Insect Development and Temperature Effects</b> Leon Higley, PhD; Amanda Roe, PhD
2:30 pm - 3:15 pm	<b>Succession Studies and Their Application</b> Lavinia Iancu, PhD
3:15 pm - 3:45 pm	<b>BREAK</b>
3:45 pm - 4:30 pm	<b>Hands-On: Insect Collection and Packaging Techniques; Preservation and Documentation of Evidence</b> All Presenters
4:30 pm - 5:15 pm	<b>Panel Discussion: Challenges and Future Directions</b> All Presenters
5:15 pm - 5:30 pm	<b>Q&amp;A and Wrap-Up</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W12 Back to the Basics: Criminal Investigation Assessment—Understanding the Behavior Behind the Crime**

**Monday, February 9, 2026**

**8:30 am – 5:00 pm**

**CE Hours: 6.75**

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**Learning Objectives:** Upon completion of the course, the attendee will be able to: (1) cite the difference between Crime Assessment, an evidence-based process, versus Criminal Profiling, a psychological based process; (2) utilize the learned skill set to properly collect the information to decide the level of victim risk and offender risk; (3) compare the dynamics of a crime scene, homicidal pattern, and offender behavior characteristics, and select the proper sub-type and crime motivation; (4) assess the paralogical reasoning system and identify the level of victim and offender emotion; (5) recognize the difference between a crime driven by fantasy and one that contains no fantasy issues; (6) judge a criminal act and conclude whether the crime scene and offender are organized, disorganized, or both; (7) understand the behavior patterns of a Sexual Sadist, and how to identify and interact with them; and (8) understand the behavior pattern of Armin Meiwes, the Rotenburg Cannibal.

**Impact Statement:** Behavioral Assessment has had a profound impact on the field of forensic science, serving as a bridge between psychological analysis and physical evidence. By systematically analyzing behavioral patterns, motives, and methods of offenders, Behavioral Assessment aids investigators in narrowing down suspect pools and understanding criminal minds. This integration of psychological insight enhances the interpretation of forensic evidence and often directs the focus of investigations, making forensic methodologies more targeted and effective. As a result, Behavioral Assessment not only contributes to more efficient crime-solving but also advances forensic science by promoting interdisciplinary collaboration and refining investigative strategies.

**Program Description:** This workshop introduces behavioral assessment as an investigative tool to analyze crime scenes through the lens of criminological structures and offender behavior. It focuses on identifying pathological behavior patterns and sub-types across the criminal spectrum to better understand motives, methods, and opportunities behind crimes.

Key concepts include:

- Using the crime continuum to decode recurring elements in criminal behavior
- Interpreting physical evidence (or its absence) to reveal power dynamics, emotional drivers, and offender idiosyncrasies
- Recognizing how offenders unintentionally leave behavioral clues during the commission of crimes

Participants will engage in interactive case-based exercises, offering their own insights to develop behavioral profiles based on real-world crime scenes.

The goal is to equip attendees with practical techniques for applying behavioral assessment to investigative work, enhancing their ability to interpret crime scenes and offender behavior.

**Target Audience:** Criminalistics, General, Psychiatry & Behavioral Science

**Knowledge Level:** Basic

*Chair:*

**Katherine Brown, PhD**  
Tarleton State University  
RELLIS Academic Alliance  
College Station, TX

*Presenters:*

**Klaus C. Neudecker, MD**  
Praxis für Begutachtungen  
Landshut, Bayern  
Germany

**Patrick J. Zirpoli**

Sherry Black Foundation  
Milanville, PA

*Co-Chair:*

**Kelsie Bryand, MS**  
Sam Houston State University  
Huntsville, TX

**Erin Ryan, BA**

Sherry Black Foundation  
Sandy, UT

# WORKSHOPS

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## **W12 Back to the Basics: Criminal Investigation Assessment—Understanding the Behavior Behind the Crime**

### **Program:**

8:30 am - 8:45 am	<b>Introduction</b> Patrick J. Zirpoli, Sr.; Erin Ryan, BA
8:45 am - 10:00 am	<b>Crime Scene Assessment/Identifying Behavior Traits at the Scene: “What Does the Evidence Tell You?”</b> Patrick J. Zirpoli, Sr.; Klaus Neudecker, MD
10:00 am - 10:15 pm	<b>BREAK</b>
10:15 am - 12:00 pm	<b>Understanding Power-Motivated Offenders and Scenes: “What Is the MOTIVE?”</b> Patrick J. Zirpoli, Sr.
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 2:00 pm	<b>Understanding Anger Motivated Offenders and Scenes: “What is the MOTIVE”</b> Patrick J. Zirpoli, Sr.
2:00 pm - 2:15 pm	<b>BREAK</b>
2:15 pm - 3:30 pm	<b>Understanding Anger-Motivated Offenders and Scenes: “The Sexual Sadist”</b> Patrick J. Zirpoli, Sr.; Klaus Neudecker, MD
3:30 pm - 4:30 pm	<b>The Rotenburg Cannibal</b> Klaus Neudecker, MD
4:30 pm - 5:00 pm	<b>The Role of the Sherry Black Foundation in Solving Crimes</b> Erin Ryan, BA

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W13 From General Knowledge to Case-Specific Insights: Navigating the Complexities of Trace and DNA Transfer, Persistence, Prevalence, and Recovery (TPPR) in Forensic Science Opinions**

**Monday, February 9, 2026**

**8:30 am – 12:00 pm**

**CE Hours: 3.0**

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**Learning Objectives:** The goals of this presentation are to: (1) summarize key findings and recommendations from the National Institute of Standards and Technology (NIST) DNA Foundation Review and Human Factors reports as they relate to TPPR in forensic science; (2) identify common sources of uncertainty, controversy, and interpretive complexity when forming opinions on trace and DNA TPPR in specific case contexts; (3) critically evaluate when it is appropriate to offer expert opinion on TPPR and describe what type of data and reasoning should underpin such opinions; and (4) contribute to a structured taxonomy to categorize TPPR-related literature and scenarios during a collaborative classification exercise, contributing to the refinement of a searchable TPPR database.

**Impact Statement:** This workshop will advance the forensic science community's ability to engage with one of the field's most complex interpretive challenges: understanding and explaining trace and DNA TPPR in the context of a specific case. By promoting critical reflection on the scientific and cognitive underpinnings of TPPR opinions, introducing a taxonomy for structuring the TPPR literature, and piloting AI-supported approaches to literature synthesis, the workshop will contribute to more transparent, consistent, and scientifically grounded expert testimony.

**Program Description:** This half-day workshop addresses the complex challenge of interpreting and applying trace and DNA Transfer, Persistence, Prevalence, and Recovery (TPPR) evidence in forensic casework. It focuses on when—and how—it is appropriate for experts to offer opinions on TPPR.

Key elements include:

- Insights from the NIST DNA Foundation Review and Human Factors report
- Discussion of scientific, cognitive, legal, and interpretive challenges in TPPR
- Review of current knowledge gaps and controversies
- Introduction to a NIST-developed taxonomy and efforts toward a searchable TPPR database

The interactive session includes collaborative activities and explores how AI tools can enhance the organization and application of TPPR literature. Designed for forensic practitioners, researchers, and legal professionals, the workshop aims to strengthen the scientific and interpretive foundation behind TPPR-related expert testimony and case analysis.

*Chair:*

**John M. Butler, PhD**  
National Institute of Standards and Technology  
Gaithersburg, MD

*Co-Chair:*

**Jarrah R. Kennedy, MS**  
Kansas City Police Crime Laboratory  
Kansas City, MO

*Presenters:*

**Niki Osborne, PhD**  
Institute for Public Health and Forensic Science  
Auckland, Auckland  
New Zealand

**Melissa Taylor, BA**  
National Institute of Standards and Technology  
Gaithersburg, MD

# WORKSHOPS

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## **W13 From General Knowledge to Case-Specific Insights: Navigating the Complexities of Trace and DNA Transfer, Persistence, Prevalence, and Recovery (TPPR) in Forensic Science Opinions**

### **Program:**

8:30 am - 8:45 am	<b>Welcome and Introductions</b> Melissa Taylor, BA
8:45 am - 9:15 am	<b>Framing the Problem: The Difference Between General Knowledge and Case-Specific Interpretations</b> John Butler, PhD; Jarrah Kennedy, MS
9:15 am - 9:45 am	<b>Insights From the NIST DNA Foundation Review</b> John Butler, PhD
9:45 am - 10:15 am	<b>Insights From the NIST/NIJ Human Factors in DNA Report</b> Jarrah Kennedy, MS
10:15 am - 10:30 am	<b>BREAK</b>
10:30 am - 11:15 am	<b>Collaborative Exercise: Testing a TPPR Taxonomy</b> John Butler, PhD
11:15 am - 11:45 am	<b>Emerging Tools: AI-Assisted Approaches to TPPR Synthesis</b> Niki Osborne, PhD
11:45 am - 12:00 pm	<b>Wrap-Up and Next Steps</b> Melissa Taylor, BA

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W14 Elementary, My Dear Chemist: Cracking the Mysteries of Unknown Substances**

**Monday, February 9, 2026**

**1:00 pm – 4:30 pm**

**CE Hours: 3.0**

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**Learning Objectives:** During this workshop, attendees will learn the fundamental principles of complex chemical analysis and structure elucidation, to include systematic approaches to analytical testing and spectral interpretation, using Mass Spectrometry (MS), Infrared (IR) spectroscopy, and Nuclear Magnetic Resonance (NMR) spectroscopy. Attendees will learn how to evaluate fragmentation patterns, identify functional groups, and understand carbon and hydrogen connectivity patterns. In addition, the attendees will learn innovative techniques used by forensic laboratories to assist in identifying unknown substances encountered in illicit drug samples.

**Impact Statement:** This presentation will impact the forensic science community by demonstrating the utility and importance of comprehensive chemical testing to aid investigations across forensic science disciplines. This workshop will specifically focus on the identification and interpretation of emerging drug threats and novel psychoactive substances (NPS). Additionally, the presentations will increase understanding of MS, IR, and NMR analysis and data interpretation.

**Program Description:** Co-sponsored by the AAFS Opioids and Emerging Drugs Committee and the SOFT NPS Committee, this full-day workshop focuses on the identification and structural elucidation of Novel Psychoactive Substances (NPS)—a growing challenge in forensic science as the global drug supply continues to diversify.

Key topics include:

- Overview of 1,302+ NPS identified worldwide (as of March 2025), with synthetic opioids emerging rapidly
- Strategies for recognizing and pursuing unknown substances in forensic drug samples
- In-depth training on structural elucidation using mass spectrometry (MS), nuclear magnetic resonance (NMR), infrared (IR) spectroscopy, and other advanced techniques like IRMS and ICPM

Highlights:

- Case studies on identifying unknown NPS, adulterants, and novel compounds like BTMPS and tetramethylfentanyl analogs
- Exploration of how drug traffickers alter synthesis routes to evade regulation, creating structurally novel substances with limited or no reference profiles
- Collaborative strategies between forensic toxicologists and drug chemists
- Introduction to how AI and Machine Learning are being used to streamline and improve the structural elucidation process

The workshop provides practical tools and workflows for forensic professionals tackling emerging synthetic drugs, emphasizing analytical rigor, innovation, and inter-disciplinary collaboration.

**Target Audience:** Criminalistics

**Knowledge Level:** Basic

*Chair:*

**Alex J. Krotulski, PhD**

Center for Forensic Science Research & Education  
Horsham, PA

*Co-Chair:*

**Agnes D. Winokur, PhD**

Department of Justice  
Drug Enforcement Administration  
Dulles, VA

*Presenters:*

**David B. Guthrie, PhD**

U.S. Drug Enforcement Administration  
Dulles, VA

**Holly E. Pierzynski, MASc**

Cayman Chemical  
Ann Arbor, MI

# WORKSHOPS

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## W14 Elementary, My Dear Chemist: Cracking the Mysteries of Unknown Substances

### Program:

- 1:00 pm - 1:15 pm      **Introduction and Setting the Stage**  
Agnes Winokur, PhD; Alex Krotulski, PhD
- 1:15 pm - 1:45 pm      **The Fundamentals of Low-Resolution Mass Spectrometry (GC/MS) and Utility for Structural Education**  
Holly Pierzynski, MS
- 1:45 pm - 2:15 pm      **The Fundamentals of High-Resolution Mass Spectrometry (LC/QTOF/MS) and Utility for Structural Education**  
Alex Krotulski, PhD
- 2:15 pm - 2:45 pm      **The Fundamentals of Nuclear Magnetic Resonance (NMR) Spectroscopy and Utility for Structural Education**  
David Guthrie, PhD
- 2:45 pm - 3:00 pm      **BREAK**
- 3:00 pm - 3:30 pm      **Additional Analytical Techniques to Assist With Structural Education (e.g., IR, ICPMS, etc.)**
- 3:30 pm - 4:00 pm      **Artificial Intelligence and Machine Learning Tools to Aid the Structural Elucidation Process**  
Agnes Winokur, PhD
- 4:00 pm - 4:30 pm      **Panel Discussion and Q&A**  
All Presenters

# WORKSHOPS

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**Pre-Registration Required—\$165**

## **W15 Building Scientific Confidence Through Validation of Forensic Methods**

**Monday, February 9, 2026**

**1:00 pm – 5:00 pm**

**CE Hours: 3.5**

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**Learning Objectives:** By the end of the workshop, participants will be able to: (1) define method validation and explain its importance in forensic science; (2) identify key components of a validation study and how to design them appropriately; (3) apply principles of validation to both subjective (human interpretation) and objective (instrumental) forensic methods; (4) access and utilize National Institute of Standards and Technology (NIST)-provided resources and reference materials for validation efforts; and (5) use the NIST Validation Assessment Tool (VAST) to support data analysis and reporting.

**Impact Statement:** This workshop equips forensic practitioners with the scientific foundation, practical tools, and regulatory insight required to design and execute validation studies that withstand courtroom scrutiny and satisfy modern accreditation demands. The workshop delivers measurable improvements in laboratory competence, courtroom credibility, and overall quality assurance, positioning participants to champion evidence-based practices across the forensic science community.

**Program Description:** This 4-hour workshop focuses on the importance of method validation in forensic science, ensuring that analytical techniques are reliable, reproducible, and appropriate before being used in casework. Participants will learn to design and carry out validation studies for both human-interpreted and instrument-based methods.

Key topics include:

- Principles of forensic method validation
- Design and execution of validation studies
- Interactive exercises using real-world examples
- Overview of NIST resources, including guidance documents, reference materials, and data
- Hands-on training with the NIST Validation Assessment Tool (VAST) to support structured, transparent validation

The goal is to equip forensic practitioners with the skills and tools needed to support scientifically rigorous validation within their laboratories.

**Target Audience:** Criminalistics, Digital & Multimedia Sciences, General, Jurisprudence, Questioned Documents, Toxicology

**Knowledge Level:** Basic

*Chair:*

**Nicole S. Jones, MS**  
RTI International  
Oakton, VA

*Co-Chair:*

**Melissa Taylor, BA**  
National Institute of Standards and Technology  
Gaithersburg, MD

*Presenters:*

**Henry Swofford, PhD**  
National Institute of Standards and Technology  
Gaithersburg, MD

**Steven Lund, PhD**

National Institute of Standards and Technology  
Gaithersburg, MD

# WORKSHOPS

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## **W15 Building Scientific Confidence Through Validation of Forensic Methods**

### **Program:**

1:00 pm - 1:35 pm	<b>Welcome, Introductions, and Goals</b> Melissa Taylor, BA
1:35 pm - 2:20 pm	<b>NIST Principles of Validation</b> Henry Swofford, PhD
2:20 pm - 2:45 pm	<b>Validation Guidance</b> Nicole Jones, MS
2:45 pm - 3:00 pm	<b>BREAK</b>
3:00 pm - 3:30 pm	<b>VAST Demo</b> Steve Lund, PhD
3:30 pm - 4:00 pm	<b>Validation Practicum—Human Interpretation Instrument-Driven Conclusions</b> Steve Lund, PhD; Melissa Taylor, BA
4:00 pm - 4:15 pm	<b>BREAK</b>
4:15 pm - 5:00 pm	<b>Report Out From Practicum Exercises</b>

# WORKSHOPS

*Pre-Registration Required—\$165*

## **W16 The American Board of Forensic Anthropology Presents: How Forensic Anthropology Contributes to Trauma Analyses—A Primer for Medical Examiners/Coroners and the Medicolegal Community**

**Monday, February 9, 2026**

**1:00 pm – 5:00 pm**

**CE Hours: 3.5**

**Learning Objectives:** After attending this workshop, attendees will: (1) understand how forensic anthropologists contribute to the analysis of cartilaginous and skeletal trauma in cases of suspected neck compression, pediatric trauma, and dismemberment; (2) recognize the forensic anthropologist's expertise in cartilaginous and skeletal trauma, even in cases where the decedent is not skeletonized; and (3) understand the importance of using a qualified, vetted, board-certified forensic anthropologist with experience in the examination and interpretation of skeletal and cartilaginous trauma.

**Impact Statement:** This workshop is relevant to medical examiners, coroners, medicolegal death investigators, law enforcement, and legal professionals interested in learning about how forensic anthropological analyses of skeletal and cartilaginous trauma contribute to the death investigation. The field of forensic anthropology has grown in recent years, with more practitioners embedded within medical examiner and coroner offices. As forensic anthropologists have become more integral to the death investigation, they have expanded outside of the more traditional analysis of skeletonized remains and have developed expertise in skeletal and cartilaginous trauma interpretation that contributes to cases of fresh, decomposed, burned, and skeletonized remains.

**Program Description:** This workshop, developed by the American Board of Forensic Anthropology (ABFA) Outreach Committee, highlights the critical role of board-certified forensic anthropologists (D-ABFAs) in analyzing skeletal and cartilaginous trauma during medicolegal death investigations.

Key focus areas include:

- Expertise in cases involving neck compression, pediatric trauma, and dismemberment
- Identifying cause and manner of death, past trauma, and possible tools or weapons used
- Use of visual aids (diagrams, photos, casts, 3D models) for court presentations and jury comprehension
- The importance of using ABFA-certified experts who meet strict standards of training, ethics, and continuing education

The session emphasizes how D-ABFAs provide quality assurance, legal readiness, and scientific rigor in complex trauma cases, underscoring their value as expert witnesses and investigative partners.

**Target Audience:** General, Jurisprudence, Pathology/Biology

**Knowledge Level:** Intermediate

*Chair:*

**Angela Soler, PhD**

New York City

Office of the Chief Medical Examiner

New York, NY

*Co-Chair:*

**Erin B. Waxenbaum, PhD**

Northwestern University

Evanston, IL

*Presenters:*

**Bradley Adams, PhD**

Lawrence, KS

**Heather M. Garvin, PhD**

Des Moines University

West Des Moines, IA

**Kristen Hartnett-McCann, PhD**

Connecticut Office of the

Chief Medical Examiner

Farmington, CT

**Melissa A. Pasquale-Styles, MD**

Connecticut Office of the

Chief Medical Examiner

Farmington, CT

**Christopher W. Rainwater, PhD**

Tarrant County Medical Examiner

Fort Worth, TX

# WORKSHOPS

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## **W16 The American Board of Forensic Anthropology Presents: How Forensic Anthropology Contributes to Trauma Analyses—A Primer for Medical Examiners/Coroners and the Medicolegal Community**

### **Program:**

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|-------------------|--|
| 1:00 pm - 1:30 pm | <b>What is the American Board of Forensic Anthropology and Why Use a Board-Certified Forensic Anthropologist?</b><br>Erin Waxenbaum, PhD |
| 1:30 pm - 2:15 pm | <b>The Role of the Forensic Anthropologist in Neck Compression Cases</b><br>Angela Soler, PhD; Kristen Hartnett-McCann, PhD              |
| 2:15 pm - 2:30 pm | <b>BREAK</b>   |
| 2:30 pm - 3:15 pm | <b>The Role of the Forensic Anthropologist in Pediatric Trauma Cases</b><br>Brad Adams, PhD  |
| 3:15 pm - 4:00 pm | <b>The Role of the Forensic Anthropologist in Dismemberment Cases</b><br>Chris Rainwater, PhD; Heather Garvin, PhD                       |
| 4:00 pm - 4:15 pm | <b>BREAK</b>   |
| 4:15 pm - 5:00 pm | <b>The Role of the Forensic Anthropologist in Trauma Analyses: The Perspective of the Medical Examiner</b><br>Melissa Pasquale, MD       |

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W17 That Was Then, This Is Now—Bridging the Gap Between Genetic Genealogy and the Forensic Communities**

**Monday, February 9, 2026**

**1:00 pm – 5:30 pm**

**CE Hours: 5.0**

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**Learning Objectives:** Upon attending this presentation, attendees will learn how genetic genealogists, law enforcement personnel, and forensic scientists can develop careers in Forensic Investigative Genetic Genealogy (FIGG) through an understanding of the professional, ethical, legal, and accreditation-related standards they must meet to be compliant with the requirements of the judicial system.

**Impact Statement:** This workshop will impact the forensic and genealogical communities by demonstrating the need for a responsible and ethical development of an accreditation for independent FIGG practitioners that can bridge the gap with forensic policies, procedures, and standards, along with the legal system they comprise.

**Program Description:** This workshop explores how to bridge the gap between the structured forensic science community and the emerging, largely unregulated field of genetic genealogy, specifically within Forensic Investigative Genetic Genealogy (FIGG).

Key themes include:

- The mismatch between limited employment opportunities in FIGG and the high volume of unsolved cases
- The need for standardized policies, procedures, and training to make FIGG practitioners credible within the legal system
- Current training and certification programs, which provide foundational knowledge but lack pathways to practical experience and job readiness

Workshop topics:

- Development of FIGG as a professional career
- NTVIC recommendations for aligning IGG practices with forensic standards
- Operating within an ISO 17025-accredited lab
- Strategies to expand FIGG job opportunities
- Panel discussion with experts on integrating FIGG into forensic frameworks

The goal is to support the integration of independent FIGG practitioners into mainstream forensic investigations by promoting compliance, credibility, and career development.

**Target Audience:** General, Jurisprudence

**Knowledge Level:** Basic

*Chair:*

**Colleen M. Fitzpatrick, PhD**  
Identifinders International LLC  
Fountain Valley, CA

*Co-Chair:*

**Ray A. Wickenheiser, DPS**  
SupreMEtric  
Youngsville, LA

*Presenters:*

**Claire L. Glynn, PhD**  
University of New Haven and  
Henry C Lee Institute of Forensic Science  
West Haven, CT

**Wendy Mclean, BS**  
UNT Center for Human Identification  
Fort Worth, TX

# WORKSHOPS

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## **W17 That Was Then, This Is Now—Bridging the Gap Between Genetic Genealogy and the Forensic Communities**

### **Program:**

1:00 pm - 1:15 pm	<b>Welcome/Introductions</b> Colleen Fitzpatrick, PhD
1:15 pm - 2:00 pm	<b>The Development of Forensic Investigative Genetic Genealogy (FIGG) as a Career</b> Colleen Fitzpatrick, PhD
2:00 pm - 2:45 pm	<b>National Technology Validation Implementation Collaborative (NTVIC) Recommendations for the IGG Community</b> Ray Wickenheiser, DPS
2:45 pm - 3:00 pm	<b>BREAK</b>
3:00 pm - 3:45 pm	<b>Working Within an ISO 17025-Accredited Laboratory</b> Wendy McLean, BS
3:45 pm - 4:30 pm	<b>How to Increase the Number of Job Opportunities in FIGG</b> Clare Glynn, PhD
4:30 pm - 5:30 pm	<b>Panel Discussion</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W18 Teaching With Care: Understanding Trauma-Informed Pedagogy and Its Application in Forensic Science Education**

**Tuesday, February 10, 2026**

**8:00 am – 12:00 pm**

**CE Hours: 3.75**

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**Learning Objectives:** This workshop will provide attendees with a robust understanding of how Post-Traumatic Stress Disorder (PTSD) and vicarious trauma impact forensic science students during their education and career preparation, using real-life examples to highlight the limitations of traditional teaching approaches. Attendees will be introduced to Trauma-Informed Pedagogy (TIP) and learn practical strategies for applying TIP in classroom and laboratory settings to better support student well-being. Finally, attendees will examine how mental health and wellness are integrated into forensic science higher education in the United Kingdom. Attendees will leave with tools to create safer, more inclusive learning environments that foster resilience and emotional health.

**Impact Statement:** This workshop will enhance educators' competence by deepening their understanding of trauma and equipping them with trauma-informed teaching strategies tailored to forensic science students. By applying these strategies, educators can improve their performance in creating emotionally safe, supportive, and effective learning environments. Ultimately, this shift in educational practice will lead to better outcomes for students, including increased resilience in the workplace, reduced burnout, and a stronger, more ethically grounded forensic science workforce.

**Program Description:** This workshop introduces Trauma-Informed Pedagogy (TIP) as a critical and timely educational approach in forensic science education, where students are frequently exposed to distressing material such as crime scene imagery, autopsy reports, and cases involving violence or death.

What is TIP?

- TIP recognizes how trauma affects learning and emphasizes emotional safety, empathy, and respect in the classroom alongside academic rigor.
- It's designed to support students' psychological well-being—especially those with prior trauma or at risk of secondary traumatic stress.
- Relevance to Forensic Science: Forensic students often encounter emotionally intense material and may be more vulnerable to trauma.
- TIP helps reduce retraumatization, encourages resilience, and fosters reflective and flexible teaching strategies (e.g., content warnings, varied assessments, open communication).
- Practical Implementation: Educators trained in TIP can recognize signs of trauma, respond supportively, and create inclusive and psychologically safe learning environments.
- Real-world examples will show how TIP has improved student outcomes in forensic programs.

Building Career Resilience:

- TIP prepares students for trauma-exposed careers by helping them identify distress, build coping strategies, and seek help.
- Emotional intelligence and self-awareness are emphasized as core professional competencies.

Long-Term Impact:

- TIP can boost student engagement, retention, and mental health.
- It promotes a cultural shift in forensic education—balancing technical excellence with emotional sustainability.
- Graduates are more likely to foster healthier workplaces and serve their communities with greater ethical awareness and resilience.

By embedding TIP in forensic science education, this workshop aims to produce emotionally resilient, ethically grounded, and professionally competent forensic practitioners—better equipped to face the psychological demands of their work and to support others in the process.

# WORKSHOPS

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## **W18 Teaching With Care: Understanding Trauma-Informed Pedagogy and Its Application in Forensic Science Education**

**Target Audience:** Anthropology, Criminalistics, Digital & Multimedia Sciences, Forensic Nursing Science, General, Pathology/Biology, Psychiatry & Behavioral Science

Knowledge Level: Intermediate

*Chair:*

**Krystal R. Hans, PhD**  
Purdue University  
West Lafayette, IN

**Leisa J. Nichols-Drew, MSc**

De Montfort University  
Leicester, England  
United Kingdom

*Co-Chair:*

**Kimberlee S. Moran, MSc**  
Rutgers University-Camden  
Camden, NJ

**Charlie Shunick, MS**

Delgado Community College/  
Resource Association for Missing People  
New Orleans, LA

*Presenters:*

**Ryan Backmann**  
Project Cold Case  
Jacksonville, FL

**Katie Wiggins, EdD**

Uprooted: Where Healing is Planted  
Jacksonville, FL

**Program:**

8:00 am - 8:10 am	<b>Welcome/Introductions</b> Krystal R. Hans, PhD
8:10 am - 8:55 am	<b>Understanding Vicarious Trauma and PTSD in Forensic Science Education and Practice</b> Krystal R. Hans, PhD; Katie Wiggins, EdD
8:55 am - 9:45 am	<b>Trauma-Informed Pedagogy as a Forensic Science Teaching Practice</b> Kimberlee S. Moran, MSc; Krystal R. Hans, PhD
9:45 am - 10:00 am	<b>BREAK</b>
10:00 am - 10:40 am	<b>Trauma-Informed Pedagogy in Practice</b> Ryan Backmann, ND; Charlie Shunick, MS
10:40 am - 11:25 am	<b>Building Resilience in Forensic Education: The United Kingdom Approach to Mental Health and Wellness</b> Leisa Nichols-Drew, MSc
11:25 am - 12:00 pm	<b>Panel Discussion and Q&amp;A</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W19 Cognitive Bias and Error in the Forensic Sciences**

**Tuesday, February 10, 2026**

**8:00 am – 5:00 pm**

**CE Hours: 7.25**

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**Learning Objectives:** This workshop aims to equip forensic professionals with knowledge of cognitive biases impacting forensic science. Participants will learn to identify the effects of cognitive bias and how it relates to errors in decision-making across multiple forensic disciplines. The program fosters interdisciplinary collaboration to enhance accuracy in medicolegal investigations and death certification.

**Impact Statement:** By addressing cognitive bias, this workshop will improve the reliability of forensic analyses and strengthen justice system outcomes. It empowers professionals to implement bias-mitigation strategies, fostering greater trust in forensic evidence.

**Program Description:** This workshop provides a comprehensive, interdisciplinary exploration of cognitive biases in forensic science and medicolegal investigations. It brings together experts across disciplines—forensic pathologists, toxicologists, DNA and fingerprint analysts, legal professionals, and cognitive scientists—to examine how biases such as confirmation bias, anchoring, and contextual bias affect forensic decision-making and courtroom outcomes.

### **Key Highlights:**

#### Understanding Bias in Forensics

- Explores how cognitive biases can distort interpretation, analysis, and testimony.
- Emphasizes real-world consequences of bias on justice and forensic reliability.

#### Interdisciplinary Perspectives

- Forensic pathologists and death investigators: Strategies for maintaining objectivity in autopsies and scene analysis.
- Toxicologists and DNA analysts: Methods to reduce subjective interpretation and promote standardization.
- Fingerprint analysts: Challenges in pattern recognition and minimizing human error.
- Prosecutors and defense attorneys: Legal perspectives on how biased forensic evidence affects case outcomes.
- Cognitive scientists: Present latest research and evidence-based debiasing tools.

#### Interactive and Practical

- Includes hands-on exercises to practice bias-mitigation techniques.
- Uses case-based discussions to highlight bias in real investigations and trials.
- Aims to equip attendees with practical tools to improve objectivity in their own work.

#### Collaborative Goals

- Fosters interdisciplinary dialogue to strengthen forensic reliability and judicial fairness.
- Ideal for forensic professionals, legal experts, and researchers seeking to enhance accuracy, transparency, and integrity in forensic processes.

Participants will leave with a deeper understanding of how bias infiltrates forensic science, as well as concrete strategies to recognize, reduce, and guard against it—ultimately contributing to more objective and just forensic outcomes.

**Target Audience:** Criminalistics, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science, Toxicology

**Knowledge Level:** Intermediate

# WORKSHOPS

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## W19 Cognitive Bias and Error in the Forensic Sciences

*Chair:*

**Paul S. Uribe, MD**  
Fort Bend County  
Medical Examiner Office  
Richmond, TX

*Co-Chair:*

**Tiffany A. Roy, JD, MSFS**  
ForensicAid, LLC  
Singer Island, FL

*Presenters:*

**Marion Davidson, MSc**  
University College London  
Baltimore, MD

**George F. Jackson, PhD**  
Office of the Chief State  
Medical Examiner  
Trenton, NJ

**Allison Lewis, JD**  
The Legal Aid Society  
New York, NY

**William Oliver, MD**  
East Carolina University  
Seymour, TN

**Michelle Rippy, EdD**  
California State University East Bay  
Hayward, CA

**Jennifer G. Solari, JD**  
Baker & Hostetler, LLP  
Savannah, GA

**Program:**

8:00 am - 8:15 am	<b>Introduction</b> Paul Uribe, MD
8:15 am - 9:00 am	<b>Cognitive Bias and Error: The Cognitive Scientist Perspective and the OCME Audit</b> Marion Davidson, MSc
9:00 am - 9:45 am	<b>Cognitive Bias and Error in DNA Analysis</b> Tiffany Roy, JD, MSFS
9:45 am - 10:00 am	<b>BREAK</b>
10:00 am - 10:45 am	<b>Cognitive Bias and Error: A Prosecuting Attorney's Perspective</b> Jenna Solari, JD
10:45 am - 11:30 am	<b>Cognitive Bias and Error: A Defense Attorney's Perspective</b> Allison Lewis, JD
11:30 am - 12:00 pm	<b>Panel Questions</b>
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:45 pm	<b>Cognitive Bias and Error in Toxicologic Analysis</b> George Jackson, PhD
1:45 pm - 2:30 pm	<b>Cognitive Bias and Error: A Medicolegal Death Investigation Perspective</b> Michelle Rippy, EdD
2:30 pm - 2:45 pm	<b>BREAK</b>
2:45 pm - 3:30 pm	<b>Cognitive Bias and Error: A Forensic Pathologist Perspective</b> William Oliver, MD
3:30 pm - 3:45 pm	<b>Closing Statement</b> Paul Uribe, MD
3:45 pm - 5:00 pm	<b>Complete Panel Q&amp;A</b>

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W20 The Case of the Contextual Conundrum: Can We Have Forensic Science Without Context?**

**Tuesday, February 10, 2026**

**8:00 am – 12:00 pm**

**CE Hours: 3.5**

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**Learning Objectives:** After attending this workshop, attendees will (1) Understand the foundational role played by context across all forensic science activities; (2) Learn that context can be present in different forms and typologies; (3) Understand how context is critical to every step of the forensic science process: investigations, scene investigation including trace detection and signification, event reconstruction, laboratory analysis, as well as evaluation and reporting.

**Impact Statement:** This presentation will impact the forensic science community by emphasizing foundational principles of forensic science, exploring the effect of context in different ways, and illustrating that meaningful interpretation can only be carried out in consideration of context.

**Program Description:** This workshop highlights the critical role of context in forensic science practice, emphasizing that context is not just a concept related to relevance—it is foundational to the discipline. We begin by defining and discussing “context” within the forensic science framework and examining its various forms, including those shaped by case-specific circumstances and the perspectives of forensic scientists and other stakeholders.

A key focus will be on how meaningful interpretations depend on the information available during an investigation and the recognition that every participant brings their own contextual lens to the process. By understanding the foundational role of context in forensic science, including its polymorphisms, how it can be integrated into forensic science endeavors, and linking the topic “back to basics,” forensic practitioners will be better equipped to deliver relevant and meaningful conclusions.

Participants will appreciate the nuances of context, particularly the importance of asking the right questions, the distinction between task-relevant and task-irrelevant information, and how in these influence forensic science processes. The workshop will then address how context impacts decision-making throughout every stage of forensic problem-solving, and how information can be utilized to confirm or refute an account of events. Finally, a review of various reporting schemes following comparative examinations that have been used in the forensic practice will be examined in the light of context, and their implications on the understanding of the intended recipient.

Forensic science reports are received by various actors in the process. There is quite a skill involved to ensure that each participant gets the information they need in a manner that suits them. The investigator may welcome any information that reduces the pool of suspects while a court will need assistance in evaluation. The information from today’s forensic science laboratories also have the potential to identify crime patterns, help evidence-based and intelligence-led policing models, and increase public safety by assisting in crime reduction. Capitalizing on these capabilities requires consideration of context and the processes in place to record findings in various ways.

**Target Audience:** All Sections

**Knowledge Level:** Intermediate

*Chair:*

**Patrick Buzzini, PhD**  
Sam Houston State University  
Huntsville, TX

*Co-Chair:*

**Michelle D. Miranda, PhD**  
Center for Criminal Justice Studies  
Farmingdale, NY

*Presenters:*

**Claude Roux, PhD**  
University of Technology Sydney  
Ultimo, New South Wales  
Australia

**Sheila Willis, DSc**  
Leverhulme Research Centre for Forensic Science  
Chapelizod, Dublin  
Ireland

# WORKSHOPS

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## **W20    The Case of the Contextual Conundrum: Can We Have Forensic Science Without Context?**

### **Program:**

8:00 am - 8:15 am	<b>Attendee Arrival, Introductions, Overview</b> All Presenters
8:15 am - 8:45 am	<b>Defining and Describing Context(s) in Forensic Science</b> Claude Roux, PhD
8:45 am - 9:15 am	<b>The Sydney Declaration and Its Principles</b> Claude Roux, PhD
9:15 am - 9:30 am	<b>BREAK</b>
9:30 am - 10:00 am	<b>Criminal Investigations, Crime Scene Investigation, and Reconstruction</b> Michelle Miranda, PhD
10:00 am - 10:45 am	<b>Testing, Analysis, and Scientific Methodology</b> Patrick Buzzini, PhD; Sheila Willis, DSc
10:45 am - 11:30 am	<b>Evaluation, Explanation, and Interpretation (Source Attributions; Findings vs. Values)</b> Sheila Willis, DSc; Patrick Buzzini, PhD; Claude Roux, PhD
11:30 am- 12:00 pm	<b>Discussions, Wrap-up, Closing Remarks</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W22 Ethics in Forensics: Turning Data Into Dialog**

**Tuesday, February 10, 2026**

**8:30 am – 5:30 pm**

**CE Hours: 7.25**

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**Learning Objectives:** After attending this presentation, attendees will gain a deeper understanding of common sources of ethical strain within forensic science. They will be able to understand patterns that link headline failures with quieter, everyday pressures within the laboratory and how cultural factors may inhibit candid discussion of these issues. Finally, attendees will be better equipped to discuss potential reforms to rectify and minimize these issues, both within their own laboratories and throughout the broader forensic science community.

**Impact Statement:** This presentation will impact the forensic science community by creating candid dialogs about the state of ethics in forensic science. It will reveal patterns behind headline failures and the quieter, everyday pressures that are rarely documented, thereby widening our understanding of how ethical strain emerges and persists across disciplines. It will lay a shared foundation for future research, training, and policy discussions that treat ethics as a central scientific question rather than a peripheral compliance task.

**Program Description:** This full-day interactive workshop explores the state of ethics in forensic science, emphasizing its critical role in maintaining objectivity, accountability, and public trust. While ethical lapses in the field are often driven by workload pressures, organizational expectations, and cognitive bias, they are rarely openly discussed, limiting the opportunity for systemic improvement.

Key elements include:

- Examination of real-world ethical failures and new survey data from forensic scientists
- Analysis of systemic contributors to ethical compromise, not individual blame
- Insights into external oversight and its role in promoting accountability
- Open discussions on how ethical missteps impact investigations, verdicts, and public confidence

The workshop concludes with a solutions-oriented panel and an action planning session, giving participants practical tools and strategies to strengthen ethical practices within their own labs and organizations.

**Target Audience:** All Sections

**Knowledge Level:** Basic

*Chair:*

**Kevin P. Kulbacki, MSFS**  
KDX Forensics  
Chicago, IL

*Co-Chair:*

**Anjali Ranadive, JD**  
SciLawForensics, Ltd  
Phoenix, AZ

*Presenters:*

**Sarah Chu, PhD**  
Perlmutter Center for Legal Justice at  
Cardozo Law  
New York, NY

**Max Houck, PhD**

FIU Global Forensic & Justice Center  
Buffalo, NY

**Lisa Montanez, MSFS**

The Perlmutter Center for Legal Justice  
Cardozo School of Law  
Yeshiva University  
New York, NY

**Kyla Wells, JD**

Federal Defenders of New York, Inc.  
New York, NY

# WORKSHOPS

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## W22 Ethics in Forensics: Turning Data Into Dialog

### Program:

8:30 am - 8:45 am	<b>Welcome/Introductions</b> Kevin Kulbacki, MSFS
8:45 am - 9:30 am	<b>Ethics 101</b> Lisa Montanez, MSFS
9:30 am - 10:15 am	<b>Ethical Obligations of Forensic Scientists</b> Anjali Ranadive, JD
10:15 am - 10:30 am	<b>BREAK</b>
10:30 am - 11:15 am	<b>High-Profile Ethical Lapses in Forensic Science</b> Kevin Kulbacki, MSFS
11:15 am - 12:00 pm	<b>Transparency of Forensic Laboratories</b> Max Houck, PhD
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 2:00 pm	<b>The State of Ethics in Forensic Science According to Forensic Scientists</b> Kevin Kulbacki, MSFS
2:00 pm - 3:00 pm	<b>External Oversight of Forensic Laboratories in Practice</b> Sarah Chu, PhD
3:00 pm - 3:15 pm	<b>BREAK</b>
3:15 pm - 4:15 pm	<b>The Impact of Ethical Lapses on the Justice System</b> Kyla Wells, JD
4:15 pm - 5:30 pm	<b>Panel Discussion on Practical Change</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W23 Forensic Investigation of Sudden Deaths in the Young: Who, When, and How**

Tuesday, February 10, 2026

8:30 am – 12:00 pm

CE Hours: 3.5

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**Learning Objectives:** Attendees will be: (1) looking at sudden cardiac death of the young as both a forensic and public health issue, (2) learning the whole process of forensic investigation, going from the family history of the victim to the interpretation of molecular autopsy; and (3) learning how to combine ambiguous toxicology, autopsy, histology, and molecular autopsy data in sudden deaths

**Impact Statement:** This workshop wants to transmit a basic but complete knowledge of what the forensic routine is when a young (younger than 35 years) person suddenly dies, especially when the autopsy results are ambiguous/inconclusive. Real cases will help the audience to simulate decision-making in critical contexts and understand the cost/benefit ratio in highly challenging cases. The workshop hopefully will help to transmit a combined forensic/public health perspective on sudden death, helping forensic experts to transform a tragic event into a chance for the survivors to prevent sudden death.

**Program Description:** This half-day workshop focuses on sudden death in the young, particularly cases caused by inherited cardiac disorders where sudden cardiac death (SCD) is often the first and only symptom. The workshop emphasizes the forensic pathologist's critical role in diagnosing these cases postmortem to enable potentially life-saving interventions for surviving family members.

The program includes five segments combining interactive lectures and real case discussions:

1. Introduction to Sudden Death

- Definitions and prevalence of sudden death and SCD
- Legal and social implications

2. Autopsy Investigation of Sudden Cardiac Death

- Importance of autopsy in identifying cardiac causes
- Role of clinical/circumstantial data and additional tests (imaging, toxicology, biochemistry)

3. Microscopic Examination Best Practices How to sample and analyze heart tissue

- Differentiating normal from pathological findings (e.g., fibrosis, disarray)
- Importance of subtle histological changes in early inherited conditions

4. Role of Postmortem Molecular Testing When genetic testing is appropriate

- Challenges of interpretation (e.g., variants of unknown significance)
- Integration of genetic findings with autopsy results

5. Q&A Session

The workshop aims to equip participants with the tools to identify and interpret the often subtle findings of inherited cardiac disorders in young individuals, combining autopsy, histology, and genetic testing to guide accurate diagnosis and family risk assessment.

**Target Audience:** Pathology/Biology

**Knowledge Level:** Basic

# WORKSHOPS

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## **W23 Forensic Investigation of Sudden Deaths in the Young: Who, When, and How**

*Chair:*

**Simone Grassi, MD, PhD**  
University of Florence  
Florence, Toscana  
Italy

*Presenters:*

**Andrea Costantino, MD**  
Careggi University Hospital  
Florence, Toscana  
Italy

*Co-Chair:*

**Cristina Mondello, PhD**  
University of Messina  
Messina, Sicilia  
Italy

**Antonio Oliva, MD, PhD**

Università Cattolica del Sacro Cuore  
Rome, Lazio  
Italy

**Program:**

- |                     |  |
|---------------------|--|
| 8:30 am - 9:00 am   | <b>Introduction to Sudden Death: The Medicolegal Perspective</b><br>Antonio Oliva, PhD   |
| 9:00 am - 9:50 am   | <b>The Autopsy Investigation in Sudden Cardiac Death</b><br>Cristina Mondello, PhD   |
| 9:50 am - 10:40 am  | <b>Best Practice for Heart Microscopic Examination and Interpretation of Microscopic Data</b><br>Andrea Costantino, MD           |
| 10:40 am - 11:30 am | <b>The Indication of Molecular Testing and the Integration of Its Results With Other Forensic Evidence</b><br>Simone Grassi, PhD |
| 11:30 am - 12:00 pm | <b>Questions and Answers</b><br>All Presenters   |

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W25 Testifying Without a Net: Navigating Activity-Level Evaluation Questions Without Formal Evaluation**

**Tuesday, February 10, 2026**

**8:30 am – 5:30 pm**

**CE Hours: 7.0**

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**Learning Objectives:** After attending this workshop, attendees will have an alternate strategy to answer questions about transfer and persistence at trial. They will know how to correctly formulate activity level propositions, apply the Case Assessment and Interpretation framework, support their opinions with data, and answer questions without transposing the conditional. Participants will be given options that can assist in developing a protocol and training program for use in their own casework.

**Impact Statement:** This presentation will impact the forensic science community by providing guidance on how to answer activity-level questions on biological results during testimony when no formal Activity-Level Evaluation (ALE) had been conducted. The strategies discussed will provide the participants with a way to deliver answers that are useful to the court and based on data, emphasizing balance, logic, and transparency.

**Program Description:** AThis workshop addresses the challenges faced in the U.S. regarding Activity Level Evaluation (ALE) of DNA evidence, especially during live courtroom testimony when experts are unexpectedly asked questions about DNA transfer without prior preparation or formal model-driven analysis.

**Key Issues:**

- ALE questions often arise in real time at trial, catching experts off guard.
- Common responses like “Yes, it’s possible...” are uninformative and unhelpful.
- While formal, model-based ALE reporting exists, it’s rarely feasible in unanticipated courtroom scenarios.
- Currently, no guidelines exist for experts to navigate these unscripted ALE questions when no formal ALE was performed.

**Workshop Focus:**

- Presents a new best-practice framework developed by a North American working group of forensic DNA practitioners.
- Offers judgment-based strategies for responding to ALE questions in court when no formal analysis was conducted.
- Emphasizes a real-world, testimony-ready approach grounded in: rigor, transparency, balance, logical reasoning, and traceability of thought process.

This workshop fills the critical gap between full ALE reporting and courtroom reality, equipping DNA experts with practical, ethical, and defensible strategies for addressing unexpected ALE questions during testimony.

**Target Audience:** Criminalistics, General, Jurisprudence

**Knowledge Level:** Intermediate

*Chair:*

**Simone Gittelson, PhD**

The George Washington University and  
DC Department of Forensic Sciences  
Washington, DC

*Co-Chair:*

**Tim Kalafut, PhD**

Sam Houston State University  
Huntsville, TX

*Presenters:*

**Michael Bissonnette, MS**

Centre of Forensic Sciences  
Ontario, Canada

**Michael A. Marciano, PhD**

Syracuse University  
Syracuse, NY

**Ray A. Wickenheiser, DPS**

SupreMEtric  
Youngsville, LA

# WORKSHOPS

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## **W25     Testifying Without a Net: Navigating Activity-Level Evaluation Questions Without Formal Evaluation**

### **Program:**

8:30 am - 9:00 am	<b>Opening Remarks</b> Tim Kalafut, PhD
9:00 am - 9:30 am	<b>The Questions Being Asked in Court: An Informal Lab Survey of Transcripts</b> Michael Marciano, PhD
9:30 am - 10:30 am	<b>Probabilities . . . What Are They?</b> Tim Kalafut, PhD; Simone Gittelson, PhD
10:30 am - 10:45 am	<b>BREAK</b>
10:45 am - 11:45 am	<b>Activity Level Evaluation (ALE): A Bit of Theory</b> Simone Gittelson, PhD
11:45 am - 12:15 pm	<b>The Existing Guidelines on ALE</b> Tim Kalafut, PhD
12:15 pm - 1:15 pm	<b>BREAK</b>
1:15 pm - 2:45 pm	<b>New Guidelines for ALE Testimony</b> Ray Wickenheiser, DPS; Simone Gittelson, PhD
2:45 pm - 3:00 pm	<b>BREAK</b>
3:00 pm - 4:00 pm	<b>Mock ALE Testimony Strategy and Examples</b> Tim Kalafut, PhD; Michael Bissonnette, MS
4:00 pm - 5:00 pm	<b>Training in ALE</b> Michael Bissonnette, MS
5:00 pm - 5:30 pm	<b>Discussion/Questions and Answers/Closing Remarks</b> All Presenters

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W26 Advancing the Adoption of Artificial Intelligence in Forensic Science: Use Cases, Innovation Pathways, and a Procurement Framework**

**Tuesday, February 10, 2026**

**8:30 am – 12:00 pm**

**CE Hours: 3.0**

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**Learning Objectives:** The goals of this workshop are to: (1) identify and describe high-impact AI use cases relevant to forensic science, including applications in case management, evidence analysis, research, training, and quality assurance; (2) access and contribute to a shared use case library and taxonomy, designed to accelerate innovation by aligning developer efforts with real-world forensic needs; (3) explain the core principles of the National Institute of Standards and Technology (NIST) AI Risk Management Framework (RMF) and the Responsible AI Framework for Forensic Science, and how these tools support effective and transparent AI adoption; and (4) explore a forensic-specific procurement framework to evaluate the readiness, fit-for-purpose design, and scalability of AI tools under consideration for operational use.

**Impact Statement:** This workshop will equip forensic scientists, quality managers, researchers, and legal practitioners with the tools and frameworks needed to make informed decisions about adopting AI technologies in forensic science. By introducing structured use cases, shared terminology, and risk management and procurement frameworks, the session aims to bridge the gap between technical innovation and operational readiness. The outcomes will support the development of innovative, transparent, and fit-for-purpose AI-enabled applications in forensic science.

**Program Description:** This half-day workshop explores the transformative role of Artificial Intelligence (AI) in forensic science, focusing on how AI can improve efficiency, accuracy, and insight across various forensic disciplines.

Key Objectives:

- Showcase real-world AI applications in forensic workflows, such as: Case management
- Evidence analysis
- Quality assurance
- Training and research
- Identify and reduce barriers to AI adoption in forensic settings
- Provide hands-on experience with an evolving library of forensic AI use cases
- Support evaluation and integration of AI tools in participants' organizations

Collaboration and Governance:

- Encourage collaboration between AI developers and forensic professionals to align language, goals, and expectations
- Introduce governance frameworks to support responsible AI adoption, including: NIST AI Risk Management Framework (AI RMF 1.0)
- Responsible AI Framework for Forensic Science

NIST's Role:

- Leading national efforts to: Map AI tools to forensic workflows
- Develop a shared forensic-AI taxonomy
- Design AI procurement frameworks tailored to forensic needs

Participants will leave with a better understanding of how to responsibly adopt and govern AI technologies in forensic science, fostering innovation while ensuring transparency, reliability, and legal compliance.

**Target Audience:** General

**Knowledge Level:** Basic

# WORKSHOPS

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## **W26 Advancing the Adoption of Artificial Intelligence in Forensic Science: Use Cases, Innovation Pathways, and a Procurement Framework**

*Chair:*

**Henry Swofford, PhD**

National Institute of Standards and Technology  
Gaithersburg, MD

*Presenters:*

**Niki Osborne, PhD**

Institute for Public Health and Forensic Science  
Auckland, New Zealand

*Co-Chair:*

**Melissa Taylor, BA**

National Institute of Standards and Technology  
Gaithersburg, MD

**Janet K. Stacey, MSc**

Institute for Public Health and Forensic Science  
Auckland, New Zealand

**Program:**

8:30 am - 8:45 am	<b>Welcome and Introductions</b> Melissa Taylor, BA
8:45 am - 9:00 am	<b>An Overview of NIST-Led Efforts for AI in Forensic Science</b> Henry Swofford, PhD
9:00 am - 9:20 am	<b>Use Case Templates and a Use Case Library</b> Niki Osborne, PhD
9:20 am - 9:45 am	<b>The NIST AI Risk Management Framework</b> Niki Osborne, PhD
9:45 am - 10:15 am	<b>PHF Science's Responsible AI Framework (RAIF) for Forensic Science</b> Janet Stacey, MSc
10:15 am - 10:30 am	BREAK
10:30 am - 10:50 am	<b>The Application of the RAIF to an AI-Powered Tool for the Rapid Identification of Illicit Substances (Lumi Drug Scan)</b> Janet Stacey, MSc
10:50 am - 11:00 am	<b>An Introduction to a Framework for Procuring AI in Forensic Science</b> Niki Osborne, PhD
11:00 am - 11:45 am	<b>Interactive Exercise: Create Your Own Use Case and Apply the NIST AI RMF and RAIF</b>
11:45 am - 12:00 pm	<b>Wrap-Up and Next Steps</b> Melissa Taylor, BA

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W27 Homicide-Suicide: Back to the Basics**

**Tuesday, February 10, 2026**

**8:30 am – 5:30 pm**

**CE Hours: 7.0**

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**Learning Objectives:** After attending this workshop, attendees will: (1) understand basic procedures in medical examinations for determining that deaths were homicide-suicide and the type of Homicide-Suicide (HS); (2) gain an appreciation of the two-part classification of HS that addresses the psychopathology of the perpetrator and their relationship with the victim(s); (3) recognize the three domains of HS: psychopathology, stressors, and vector (cognitive components of motivation); and (4) recognize from example how physical findings of the deceased can relate to the perpetrator’s mindset during the act.

**Impact Statement:** This workshop should impart a deeper understanding of the interrelationship between autopsy findings and psychological issues behind HS acts. Practitioners can recognize that the classification of all HS pertains to individual, unique cases, and careful examination of individual cases adds to the usefulness of the broader classification. Collaboration between pathologists and behavioral scientists may enhance understanding of these tragic events and provide preventive insights.

**Program Description:** This workshop, aligned with the theme “Back to Basics: The Fundamentals of Forensic Science,” examines the intersection of psychological pathology and physical trauma in domestic violence-related homicide-suicide (HS) cases, both in Texas and internationally.

Core Themes:

Role of the Forensic Pathologist: Maintain objectivity and scientific rigor amid emotionally charged scenes

Focus on evidence, not narratives

Nature of Domestic HS: Often rooted in intimate partner or familial relationships

Reflect a convergence of internal psychological breakdown and external lethal action

Case Reviews Include:

- Familicide with a surviving child
- Spousal homicide witnessed by a child
- Mother-son deaths in a hotel
- Multiple-family-member killings with others spared
- Delayed suicide following multi-victim homicide
- Familicides amid divorce or without known triggers

These cases are analyzed for:

- Injury patterns, range of fire, and number of wounds
- Victim selection and spared individuals
- Clues to perpetrator psychology and motives
- Psychological & Forensic Integration
- Psychopathology/ego structure
- Stressors (chronic or acute)
- Motivational vector
- Psychological categories: depression, psychosis, substance abuse, sociopathy, impulsivity
- Contexts: intimate, parental, adversarial relationships

This workshop deepens understanding of domestic and mass homicide-suicide by combining forensic science with psychological profiling—enhancing investigative accuracy and reinforcing the importance of scientific clarity and human empathy in the face of devastating events.

**Target Audience:** Pathology/Biology, Psychiatry & Behavioral Science

**Knowledge Level:** Basic

# WORKSHOPS

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## W27 Homicide-Suicide: Back to the Basics

*Chair:*

**Alan R. Felthous, MD**

Saint Louis University School of Medicine  
St. Louis, MO

**Emma Henrie, MD**

Harris County Institute of Forensic  
Sciences Houston, TX

**Emily Rodgers, DO**

SSM Saint Louis University Hospital  
St. Louis, MO

*Co-Chair:*

**Paulyann Maclayton, MD**

Harris County Institute of Forensic  
Sciences Manvel, TX

**Chanchal K. Kahlon, MD**

SSM Saint Louis University Hospital  
St. Louis, MO

**Delavar Safari, MD**

SSM Saint Louis University Hospital  
St. Louis, MO

*Presenters:*

**Bernardo Bozza, MD**

La Spienza University of Rome  
Rome, Italy

**Daniel A. Martell, PhD**

Forensic Neuroscience Consultants APPC  
Irvine, CA

**Julian Samuel, MBBS**

Harris County Institute of Forensic Sciences  
Houston, TX

**Lia Parente, PsyD**

University of Rome Sapienza  
Trani, Puglia  
Italy

**Tabitha Ward, MD**

Bexar County Medical Examiner's Office  
San Antonio, TX

**Program:**

8:30 am - 8:45 am	<b>Welcome and Introductions</b> Alan R. Felthous, MD
8:45 am - 9:45 am	<b>Homicides-Suicides in Harris County, TX, Over the Past Five Years</b> Paulyann Maclayton, MD
9:45 am - 10:15 am	<b>Domestic Homicides-Suicides in Italy</b> Lia Parente, PsyD
10:15 am - 11:00 am	<b>BREAK</b>
11:00 am - 11:30 am	<b>An Overview of Extra-Familial Homicides-Suicides</b> Alan Felthous, MD
11:30 am - 12:00 pm	<b>The Psychology of Mass Homicide-Suicide Events</b> Dan Martell, PhD
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 2:00 pm	<b>Examples of Fatal Domestic Violence From Postmortem Examinations</b> Emma Henrie, MD
2:00 pm - 3:00 pm	<b>An Analysis of Specific Cases Involving Parents, Children, and Extended Relatives</b> Tabitha Ward, MD
3:00 pm - 4:00 pm	<b>A Hypotheses on Spared Victims and Behavioral Warning Signs</b> Julian Samuel, MBBS
4:00 pm - 4:30 pm	<b>School Shootings Ending in the Death of the Perpetrator</b> Delavar Safari, MD
4:30 pm - 5:30 pm	Dr. Chanchal Kahlon will discuss parricide-homicide-suicide and Dr. Emily Rodgers will discuss cult homicide suicide

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W28 Forensic Postmortem Imaging and Medicolegal Death Investigations**

**Tuesday, February 10, 2026**

**8:30 am – 5:00 pm**

**CE Hours: 7.0**

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**Learning Objectives:** The goals of this workshop are to: (1) describe the foundational principles of PMCT and its growing role in medicolegal death investigations, with attention to its global adoption and implementation; (2) recognize key PMCT findings across a range of cases—including natural disease, trauma, drug-related deaths, and unidentified remains—with attention to interpretive pearls and common pitfalls; (3) identify practical considerations for implementing a PMCT service, including equipment selection, workflow design, and interdisciplinary collaboration between radiologists and death investigators; (4) engage in hands-on presentations, gaining experience with Picture Archiving and Communication Systems (PACS), review real PMCT cases using a web-based PACS platform, guided by expert tips, interpretation strategies, and feedback; and (5) evaluate emerging technologies and legal applications of PMCT, such as 3D reconstructions and postmortem angiography, and understand their value in documentation, expert consultation, and courtroom presentation.

**Impact Statement:** This workshop advances the integration of PMCT into medicolegal death investigation by offering practical guidance, case-based learning, and global expertise. Participants will gain essential skills for implementing and interpreting PMCT, explore its application in diverse death scenarios, and understand its value in legal proceedings. By fostering international collaboration and highlighting emerging technologies, this program supports the standardization and broader adoption of PMCT in forensic practice.

**Program Description:** This workshop offers a comprehensive exploration of Postmortem Computed Tomography (PMCT) and advanced forensic imaging, led by an international group of experts. It is designed for all experience levels—from newcomers to seasoned practitioners—and covers both foundational knowledge and cutting-edge developments.

**Key Topics:**

- Establishing a PMCT service
- Case reviews with interpretation tips from global perspectives
- PMCT in drug-related deaths and identification of unknown remains
- Natural and unnatural death investigations using imaging
- Postmortem changes and artifacts
- Radiologic imaging modalities in medicolegal death investigations: benefits and limitations
- Basics of PACS (Picture Archiving and Communication System) and interpretation
- Legal applications of postmortem imaging findings
- Collaboration between radiologists and death investigators

**Format:**

- Directed lectures, interactive case presentations, and a panel discussion
- Focus on enhancing interpretation skills and understanding the legal relevance of imaging
- Discussion of emerging technologies shaping the future of forensic imaging

**Optional Hands-On Component:**

- Available for participants who bring a Windows laptop (no firewall)
- Macs not supported due to compatibility issues with the web-based PACS
- A mouse is recommended for more precise image navigation

This workshop equips participants with the knowledge and tools to implement or expand PMCT use in their practice, while addressing both practical and technical considerations. It emphasizes interdisciplinary collaboration, interpretation accuracy, and the evolving role of imaging in forensic investigations.

**Target Audience:** Anthropology, Criminalistics, Engineering & Applied Sciences, Forensic Nursing Science, General, Odontology, Pathology/Biology

**Knowledge Level:** Basic

# WORKSHOPS

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## W28 Forensic Postmortem Imaging and Medicolegal Death Investigations

*Chair:*

**Summer J. Decker, PhD**  
University of Southern California  
Keck School of Medicine  
Los Angeles, CA

**Lars Ebert, PhD**

Zurich Forensic Science Institute  
Zurich, Switzerland

**Heather S. Jarrell, MD**

Office of the Medical Investigator  
University of New Mexico School of  
Medicine  
Albuquerque, NM

*Co-Chair:*

**Edward Mazuchowski, MD, PhD**  
Armed Forces Medical Examiner System  
Dover AFB, DE

**Jamie M. Elifritz, MD**

Forensic Radiology Group  
Destin, FL

**Yanko G. Kolev, MD, PhD**

Department of General Medicine,  
Forensic Medicine,  
and Deontology  
Medical University  
Pleven, Bulgaria

*Presenters:*

**Fabrice Dedouit, MD, PhD**  
Toulouse Hospital  
Toulouse, Midi-Pyrenees  
France

**Barbara Fliss, MD**

University Medical Center of the  
Johannes Gutenberg-University Mainz  
Institute of Forensic Medicine  
Mainz, Rheinland-Pfalz  
Germany

**Michael Thali, MD**

University of Zurich  
Zurich, Switzerland

**Jonathan M. Ford, PhD**

University of Southern California  
Los Angeles, CA

**Program:**

8:30 am - 8:45 am	<b>Introductions and Overview</b> Summer J Decker, PhD; Edward L. Mazuchowski, MD, PhD
8:45 am - 9:15 am	<b>The Skeleton Key: pmCT From Login to Diagnosis</b> Jamie Elifritz, MD
9:15 am - 9:45 am	<b>Pixels to Pathology: Interpreting pmCT in Forensic Practice</b> Edward L. Mazuchowski, MD, PhD
9:45 am - 10:15 am	<b>Forensic Identification With pmCT</b> Fabrice Dedouit, MD, PhD
10:15 am - 10:25 am	<b>BREAK</b>
10:25 am - 10:55 am	<b>Establishing a New pmCT Center: Hurdles, Challenges, and Wins</b> Barbara Fliss, MD
10:55 am - 11:25 am	<b>The Last High: pmCT in Overdose Death Investigation</b> Heather Jarrell, MD
11:25 am - 12:00 pm	<b>Postmortem Imaging: International Perspective</b> Michael Thali, MD, MBA
12:00 pm - 1:00 pm	<b>BREAK</b>
1:00 pm - 1:30 pm	<b>3D Visualization: From 3D Imaging to 3D Printing</b> Summer Decker, PhD
1:30 pm - 2:00 pm	<b>Emerging Technologies in Forensic Imaging</b> Lars Ebert, PhD; Jonathan Ford, PhD
2:00 pm - 2:10 pm	<b>BREAK</b>

# WORKSHOPS

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## **W28 Forensic Postmortem Imaging and Medicolegal Death Investigations**

### **Program cont.:**

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|-------------------|--|
| 2:10 pm - 2:40 pm | <b>Elevating Collaboration Between Forensic Medicine and Science Through Advanced Imaging</b><br>Lars Ebert, PhD |
| 2:40 pm - 3:10 pm | <b>Forensic Imaging and CSI: Bulgaria</b><br>Yanko Kolev, MD, PhD  |
| 3:10 pm - 3:15 pm | <b>Stretch and Computer Set Up</b>   |
| 3:15 pm - 4:00 pm | <b>Dead Right: Crack the Case, Claim the Prize — An Audience Case Challenge</b><br>All Presenters                |
| 4:00 pm - 5:00 pm | <b>Workshop Wrap Up and Panel Discussion</b><br>All Presenters   |

# WORKSHOPS

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*Pre-Registration Required—\$300*

## **W30 Stronger Together: The Fundamentals of Forensic Teamwork in Mass Disasters and Fatalities**

**Tuesday, February 10, 2026**

**9:00 am – 4:00 pm**

**CE Hours: 5.5**

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**Learning Objectives:** Attendees will: (1) identify the core roles and responsibilities of various forensic science disciplines and their interdependencies; (2) analyze case studies to understand how collaboration (or lack thereof) impacts case outcomes; (3) apply best practices for interdisciplinary communication and documentation; and (4) evaluate ethical challenges that arise in collaborative forensic work and propose solutions grounded in foundational principles.

**Impact Statement:** This workshop will have a significant and lasting impact on the forensic science community by reinforcing the foundational principle that forensic science does not operate in isolation. By bringing together professionals from across the forensic, investigative, and legal spectrum, this workshop will foster a deeper understanding of how collaboration enhances the accuracy, efficiency, and ethical integrity of forensic casework. Participants will gain practical tools to improve communication, streamline workflows, and resolve conflicts that often arise in multidisciplinary environments. This workshop will also promote a culture of mutual respect and shared responsibility, which is essential for maintaining public trust in forensic outcomes and the justice system as a whole. By returning to the basics of teamwork, ethical practice, and scientific rigor, this workshop will help reestablish a common language and purpose among forensic professionals. It will inspire a new generation of practitioners to prioritize collaboration as a core competency, ultimately leading to more robust investigations, fairer trials, and stronger communities.

**Program Description:** This workshop, “Back to Basics: The Fundamentals of Forensic Science in Collaboration,” emphasizes the vital role of interdisciplinary cooperation among forensic scientists, law enforcement, and the justice system—especially in the context of mass disasters.

**Key Objectives:**

- Reaffirm foundational principles: Teamwork, communication, critical thinking, and scientific integrity
- Highlight how collaboration strengthens forensic investigations and promotes just outcomes

**Workshop Focus:** Mass Disasters

**Used as a central framework to explore:**

- The complexity of coordination across forensic disciplines
- The need for clear communication, shared responsibilities, and ethical decision-making

**Interactive Components:**

- Case studies: Real examples of both successful and problematic interagency collaboration
- Expert panels: Perspectives from forensic scientists, law enforcement, and legal professionals on challenges in mass disaster response
- Scenario-based exercises, including: Crime Scene Management: Triage, evidence collection, and body recovery
- Victim Identification: Multidisciplinary approaches requiring strong data-sharing
- Courtroom Testimony: Presenting complex findings clearly and ethically
- Emphasis on chain of custody, terminology alignment, and cross-disciplinary communication

Participants will leave with a deeper understanding of how “back to basics” principles are essential in high-stakes forensic contexts—ensuring accuracy, integrity, and justice during the most complex and emotionally charged investigations.

**Target Audience:** All Sections

**Knowledge Level:** Basic

# WORKSHOPS

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## **W30 Stronger Together: The Fundamentals of Forensic Teamwork in Mass Disasters and Fatalities**

*Chair:*

**Gina Londino-Smolar, EdD**  
Indiana University Indianapolis  
Indianapolis, IN

*Co-Chair:*

**Beth Saucier Goodspeed, MS**  
Lasell University  
Bellingham, MA

*Presenters:*

**Megan Bassendale, MSc**  
Forensic Guardians International  
West Vancouver, British Columbia  
Canada

**Claire L. Glynn, PhD**

University of New Haven and  
Henry C Lee Institute of Forensic Science  
West Haven, CT

**Brett Harding, MBA**

Ada County Coroner's Office  
Cape Coral, FL

**Robert L. Hunkeler, III, MFS**

Montgomery County Coroner's Office  
Xenia, OH

**Lara Newell, MA**

Virginia Office of the Chief Medical Examiner  
Richmond, VA

**Khlea Sumani, DMD**

Scarlet Dental  
Las Vegas, NV

**Jason W. Wills, DSc**

Jonesboro Fire Department  
Jonesboro, AR

**Program:**

9:00 am - 9:15 am	<b>Welcome and Opening Remarks</b> Gina Londino-Smolar, EdD
9:15 am-10:15 am	<b>Introduction: An Overview of Interdisciplinary Collaboration in Forensic Science in Mass Disasters</b> Robert L. Hunkeler, III, MFS
10:15 am-10:30 am	<b>BREAK</b>
10:30 am-11:15 am	<b>Stake Holder Cooperation and the Importance of the Incident Command System in Mass Fatality Events</b> Brett Harding, MBA
11:15 am-12:00 pm	<b>Forensic Identification in Armed Conflict: A Multidisciplinary Approach to Complex Challenges</b> Megan Bassendale, MSc
12:00 pm- 1:00 pm	<b>BREAK</b>
1:00 pm -1:45 pm	<b>Mass Disaster Morgue Operations: Collaborative Approaches for When the Dead Outnumber the Living</b> Lara Newell, MA
1:45 pm - 2:30 pm	<b>Restoring Identities: FIGG's Role in DNA-Based Identification of Distorted Remains</b> Claire L. Glynn, PhD
2:30 pm - 2:45 pm	<b>BREAK</b>
2:45 pm - 4:00 pm	<b>Panel Discussion: Experts From Various Fields Share Insights of the Overall System and Collaboration</b> All Presenters

**Proceeds from this workshop will benefit the Forensic Sciences Foundation**



# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W34 A Skeletal Atlas of Elder Abuse II—Beta-Testing a Revised Digital Diagnostic and Educational Tool**

**Tuesday, February 10, 2026**

**1:00 pm – 4:30 pm**

**CE Hours: 3.0**

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**Learning Objectives:** After attending this workshop, attendees will be able to: (1) describe methods used to characterize assess skeletal fracture patterns in elderly individuals and the ways in which aging affects fracture and recovery; (2) understand there are different patterns of trauma associated with abuse/neglect and with accidental falls; (3) understand how to navigate the presented digital atlas of elder abuse, both for educational and diagnostic purposes; and (4) participate in beta testing the atlas and contribute usability data toward its final construction.

**Impact Statement:** Ten percent of adults aged 65+ will experience some form of abuse annually. Physical abuse and caregiver neglect account for most cases, yet remain difficult to prove. Skeletal expressions of abuse offer key indications of inflicted and untreated injuries, but are masked by assignment to accidental falls. Funded by the National Institute of Justice (NIJ), our research aims to produce a standard for the diagnosis of elder abuse in the skeletal system. This presentation will impact the forensic science community by offering a user-reviewed and expert-revised version of a digital tool for diagnosis and education so that we may improve our understanding of fractures and their contexts in elderly individuals.

**Program Description:** This workshop focuses on the continued development and beta testing of the Skeletal Atlas of Elder Abuse—a digital diagnostic and educational tool designed to improve the recognition and investigation of elder physical abuse.

### Key Highlights:

- **Background:** Rising rates of elder abuse, particularly physical abuse, highlight the need for better diagnostic tools.
- Injuries are often misattributed to falls, medication effects, or natural aging, complicating detection and prosecution.
- **Workshop Goals:** Introduce the revised version of the Skeletal Atlas of Elder Abuse
- Engage participants in beta testing and provide feedback on the tool
- Present findings from NIJ-funded research on: Differences between skeletal trauma from accidental falls vs. abuse/neglect
- The impact of aging and bone density loss on injury patterns
- **Content & Activities:** Demonstrations of updates to the digital atlas
- Insights from the AI and machine learning developers behind the diagnostic models
- Presentations by the software development team
- Interactive feedback sessions focused on usability, diagnostic accuracy, and interface design

Participants will gain a deeper understanding of elder abuse injury patterns, contribute to the refinement of a pioneering forensic tool, and help shape its future release—enhancing both diagnostic accuracy and justice outcomes in elder abuse cases.

**Target Audience:** Anthropology, Criminalistics, Digital & Multimedia Sciences, Forensic Nursing Science, General, Pathology/Biology

**Knowledge Level:** Basic

# WORKSHOPS

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## **W34      A Skeletal Atlas of Elder Abuse II—Beta-Testing a Revised Digital Diagnostic and Educational Tool**

*Chair:*

**Katelyn L. Bolhofner, PhD**  
Arizona State University  
Phoenix, AZ

*Presenters:*

**Jane E. Buikstra, PhD**  
Arizona State University  
Tempe, AZ

**Uma Nallamilli, BS**  
Arizona State University  
Mesa, AZ

*Co-Chair:*

**Laura C. Fulginiti, PhD**  
Clark County Office of the Coroner/Medical Examiner  
Mesa, AZ

**Kevin A. Gary, PhD**  
Arizona State University  
Mesa, AZ

**Shreya Prakash, BS**  
Arizona State University  
Mesa, AZ

**Jacob A. Harris, PhD**  
Arizona State University  
Phoenix, AZ

**Program:**

- |                   |  |
|-------------------|--|
| 1:00 pm - 1:30 pm | <b>An Introduction and Background of the Project</b><br>Katelyn Bolhofner, PhD; Jane Buikstra, PhD                   |
| 1:30 pm - 2:00 pm | <b>Trauma and the Aging Skeleton: Updated Results From Ongoing Research</b><br>Katelyn Bolhofner, PhD                |
| 2:00 pm - 2:30 pm | <b>Probability Modeling and Skeletal Trauma: New Avenues for Diagnosis</b><br>Jacob Harris, PhD                      |
| 2:30 pm - 2:45 pm | <b>BREAK</b>   |
| 2:45 pm - 3:30 pm | <b>A Digital Atlas of Skeletal Trauma: An Introduction to the Revised Platform</b><br>Kevin Gary, PhD                |
| 3:30 pm - 4:15 pm | <b>Beta Testing and Usability of the Digital Atlas</b><br>Kevin Gary, PhD; Jacob Harris, PhD; Katelyn Bolhofner, PhD |
| 4:15 pm - 4:30 pm | <b>Wrap Up and Implications for the Forensic Community</b><br>Laura Fulginiti, PhD                                   |

# WORKSHOPS

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*Pre-Registration Required—\$165*

## **W35      The Medicolegal Investigation of Recreational Diving Fatalities**

**Tuesday, February 10, 2026**

**1:00 pm – 4:30 pm**

**CE Hours: 3.25**

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**Learning Objectives:** Attendees at this workshop will: (1) gain an appreciation for the number of diving-related deaths that occur each year, the most common causes of death and contributing factors, and how that data is collected; (2) learn best practices in the investigation of recreational diving fatalities and deaths due to drowning; (3) attain a basic understanding of diving physiology and pathophysiology; (4) appreciate that there are certain techniques that can be utilized to maximize the information obtained from the postmortem examination of SCUBA diving deaths and deaths suspected to be due to drowning; (5) know how to interpret the findings of a postmortem examination of someone who died while breathing compressed gas under pressure; and (6) have references and resources that can be used when faced with investigating recreational diving deaths

**Impact Statement:** This presentation will impact the forensic community by providing the training and resources needed to forensic pathologists, medicolegal death investigators, attorneys, and members of law enforcement agencies so they may competently and confidently investigate recreational diving-related deaths.

**Program Description:** This workshop provides a comprehensive guide to investigating and certifying SCUBA diving-related fatalities, tailored for pathologists, death investigators, law enforcement, and attorneys.

Key Objectives:

- Understand diving physiology and fatal risks:Covers compressed gas effects, barotrauma, nitrogen narcosis, oxygen toxicity, gas embolism, and decompression sickness
- Reviews drowning physiology, as it is a frequent final outcome
- Investigative approach to diving deaths:Emphasizes the importance of witness interviews, diver’s medical and diving history, dive depth and time, and sequence of events
- Discusses the epidemiology and risk factors associated with recreational diving deaths (80–90/year in North America)
- Hands-on component:Participants will examine diving equipment and learn how to evaluate it for investigative purposes
- Autopsy and certification protocols:Presents a suggested autopsy protocol for diving fatalities
- Explains interpretation of findings such as intravascular gas bubbles
- Reviews natural diseases that may cause sudden death during diving
- Legal and forensic considerations:Addresses the possibility of non-accidental deaths and the importance of manner-of-death determinations
- Acknowledges the civil litigation potential following diving fatalities
- Resources Provided:Includes checklists, reporting forms, autopsy guidelines, and recommended reference materials

Attendees will gain the skills and tools to accurately investigate, document, and interpret SCUBA-related deaths, improving their ability to distinguish between accidental, natural, and potentially suspicious causes—while navigating both forensic and legal complexities.

**Target Audience:** General, Jurisprudence, Pathology/Biology

**Knowledge Level:** Basic

# WORKSHOPS

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## **W35      The Medicolegal Investigation of Recreational Diving Fatalities**

*Chair:*

**James L. Caruso, MD**

DPHE Office of the Medical Examiner  
Denver, CO

*Presenters:*

**Craig Nelson, MD**

Office of the Medical Examiner  
Raleigh, NC

*Co-Chair:*

**Andrea Zaferes, MFS**

Dutchess County Medical Examiner's Office/FACT  
Shokan, NY

**Frauke Tillmans, PhD**

Divers Alert Network  
Durham, NC

**Program:**

1:00 pm - 1:05 pm	<b>Welcome and Introductions</b> Jim Caruso, MD
1:05 pm - 1:30 pm	<b>The Epidemiology of Diving Deaths and Data Collection</b> Frauke Tillmans, PhD
1:30 pm - 2:20 pm	<b>Diving Physiology, Pathophysiology, and Death by Drowning</b> Jim Caruso, MD
2:20 pm - 3:00 pm	<b>Investigating a Fatal Recreational Diving Mishap</b> Craig Nelson, MD
3:00 pm - 3:15 pm	<b>BREAK</b>
	<b>Dive Equipment Show and Tell</b>
3:15 pm - 3:45 pm	<b>Autopsy Findings in Recreational Diving Cases</b> Jim Caruso, MD; Craig Nelson, MD
3:45 pm - 4:15 pm	<b>When Is a Diving Accident Not an Accident?</b> Andrea Zaferes, MS
4:15 pm - 4:30 pm	<b>Resources, Questions, and Wrap Up</b> All Presenters

# ANTHROPOLOGY

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## Wednesday

### Poster Session

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- 11:30 am – 1:00 pm    **A1**    **A Comparative Analysis of Different Maceration Techniques and Their Effects on Bone Integrity**  
Emily Mahoney\*; Chloe Cummings, BS; An-Di Yim, PhD
- 11:30 am – 1:00 pm    **A2**    **The Effects of Basic Solution Concentration and Bone Tissue Type on Progressive Decomposition Solution Color and Clarity**  
Kendall Gehring, MA\*
- 11:30 am – 1:00 pm    **A3**    **The Impact of Standard Forensic Processing Practices on the Accuracy of Dental Age Estimation Methods**  
Chloe Yingling, BS\*; McCarthy Lang, BS; Luis Cabo, MS; Joe Adserias-Garriga, PhD; Cheyenne Hindman, MS
- 11:30 am – 1:00 pm    **A4**    **Flesh to Bone: Time-to-Skeletonization Using *D. Maculatus* in a Forensic Anthropology Laboratory**  
Gage Papp, BS\*; Micki Besse, MS; Heather Walsh-Haney, PhD; Savanna Agilar, MS; Joyce Fassbender, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm    **A5**    **Pore Extractor 2D v. 2.0: New Utilities for Mapping Collagen Fiber Orientation and Cortical Pore Distribution**  
Mary Cole, PhD\*; Emma Brzezinski, MA; Amanda Agnew, PhD
- 11:30 am – 1:00 pm    **A6**    **Investigating the Position and Morphology of the Mental Foramen for Sex Estimation**  
Natalie Wise, MA\*; Erin Kimmerle, PhD
- 11:30 am – 1:00 pm    **A7**    **Exploring Cranial Morphological Variation Within Operation Identification Cases Using 3D Surface Geometric Morphometrics.**  
Rebekah Stowe, MA\*; Kate Spradley, PhD; Nicholas Herrmann, PhD; Elaine Chu, PhD
- 11:30 am – 1:00 pm    **A8**    **Testing Approaches to Population Affinity/Sex Classification Using FORDISC 3.1: Considerations for Best Practice Recommendations for United States Forensic Casework**  
Alexandra Klailes, PhD\*; Kate Lesciotto, PhD
- 11:30 am – 1:00 pm    **A9**    **Comparing the Utility of 3-D Photogrammetry Models and Casts in Forensic Anthropology**  
Lauren Keith, BS\*; Hailee Desrosier, MS; Carolyn Isaac, PhD; Joseph Hefner, PhD
- 11:30 am – 1:00 pm    **A10**    **Rethinking Variable Standardization: Why Mahalanobis Distance Does Not Require Normalized Craniometric Data**  
Joseph Hefner, PhD\*; Michael Kenyhercz, PhD
- 11:30 am – 1:00 pm    **A11**    **A Case Study: The Use of Interosseus Infusions in Adults and Resulting Skeletal Indicators**  
Kaleigh Best, PhD\*; Nicholas Passalacqua, PhD
- 11:30 am – 1:00 pm    **A12**    **Assessing Potential for Individual Variation in Maxillary Sinuses and Mastoid Air Cells: Metric Size Components**  
Tayler Franklin\*; Kaleigh Best, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*

# ANTHROPOLOGY

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- 11:30 am – 1:00 pm     **A13**     **Embedded in the Bones: An Investigation of Marginalization Through the Structural Vulnerability Profile**  
Navit Nachmias, BA\*; Kate Spradley, PhD; Elaine Chu, PhD; Michelle Hamilton, PhD
- 11:30 am – 1:00 pm     **A14**     **Is Sternotomy Wire Morphological Variation Sufficient to Support a Scientific Identification by Comparative Medical Radiography?**  
Christine Pink, PhD\*; Jered Cornelison, PhD; B Charles, PhD
- 11:30 am – 1:00 pm     **A15**     **A New Methodology of Scoring DISH Severity: A Composite Scoring System**  
Lauren Nichols, MA\*; Erin Kimmerle, PhD
- 11:30 am – 1:00 pm     **A16**     **The Application of Digital Quantitative Analysis From 3D Scans of Entheses for the Possible Use in Age Estimation**  
Gillian Stewart, BA\*  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A17**     **WITHDRAWN**
- 11:30 am – 1:00 pm     **A18**     **WITHDRAWN**
- 11:30 am – 1:00 pm     **A19**     **WITHDRAWN**
- 11:30 am – 1:00 pm     **A20**     **The Morphological Variation of the Crista Galli in a Contemporary United States Population**  
Chastidy Gilbert, BA\*; Stephen Nawrocki, PhD; Krista Latham, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A21**     **Human Body Donation and Donated Skeletal Collection Data Management: The Advantages of Building an Internal Database for Education and Research**  
Skyler Yakes, MA\*
- 11:30 am – 1:00 pm     **A22**     **A Retrospective of Forensic Anthropology Casework at Two Rural University Labs, 2018–2025: Trends, Challenges, and Implications**  
Samantha Blatt, PhD\*; Amy Michael, PhD
- 11:30 am – 1:00 pm     **A23**     **Standardizing Skeletal Sex: A Review of Terminology, Cited Methodology, and Bias-Mitigation in the Standards and Training Documents of United States Forensic Anthropology Institutions**  
Taylor Flaherty, PhD\*; Marion Davidson, MSc; Allysha Winburn, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A24**     **Methodology Trends in Forensic Anthropological Casework and the Implications for Current Practice**  
Jasper Shaw, MA\*; Donovan Adams, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A25**     **The Value of Forensic Anthropological Postdoctoral Fellowship Training in a Medical Examiner Setting: A Four-Year Retrospective Reflection**  
Helen Litavec, PhD\*; Devora Gleiber, PhD\*; Jason Wiersema, PhD; Miriam Soto Martinez, PhD; Julie Fleischman, PhD

# ANTHROPOLOGY

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11:30 am – 1:00 pm    **A26**    **An Investigation Into Academic Inbreeding and Prestige Bias in Forensic Anthropology**  
Nicholas Passalacqua, PhD\*; Natalie Clark, BA; Joseph Hefner, PhD

11:30 am – 1:00 pm    **A27**    **Intra-Observer Error in Osteometric Data**  
Maggie Klemm, MA\*; Dakota Taylor, MA; William Belcher, APM  
(FSF Emerging Forensic Scientist Award Poster Presentation)

## Thursday

### Poster Session

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11:30 am—1:00 pm    **A28**    **Skeletal Trauma in Pediatric Homicides and Suspicious Deaths: A 6-Year Retrospective Review at the West Tennessee Regional Forensic Center**  
Mackenzie Strobel, BA\*; Diana Messer, PhD

11:30 am—1:00 pm    **A29**    **Diagnosing Elder Abuse From Skeletal Trauma: A Bayesian Approach to Distinguish Abuse From Accidental Falls**  
Jacob Harris, PhD\*; Laura Fulginiti, PhD; Katelyn Bolhofner, PhD; Jane Buikstra, PhD

11:30 am—1:00 pm    **A30**    **A Comparative Macroscopic Study of Bone Quality and Fracture Frequency in Individuals With and Without Arthroplast**  
Theresa De Cree, MS\*; Danny Wescott, PhD

11:30 am—1:00 pm    **A31**    **An Exploratory Analysis of Relationships Between Tibial Diaphyseal Shape and Fracture Outcome**  
Christopher Goden, MA\*; Amanda Agnew, PhD; Angela Harden, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)

11:30 am—1:00 pm    **A32**    **Predicting Blade Width From Saw Marks: The Development and Validation of a Novel Equation**  
Meghan Gast, APM\*; Alexis VanBaarle, APM; Heather Garvin, PhD

11:30 am—1:00 pm    **A33**    **Skeletal Trauma Analysis in Virtual Modalities: Method Development and Application**  
Elizabeth Paradise, BS\*; Christopher Wolfe, PhD

11:30 am—1:00 pm    **A34**    **The Resilience of Cut Mark Characteristics: The Effects of Freezing and Defrosting on Cut Mark Analysis**  
Mariana Brito, MSc\*; Giada Steiger, MSc; Matteo Borrini, PhD; James Ohman, PhD

11:30 am—1:00 pm    **A35**    **An Overview of Blunt Force Perimortem Trauma in a Sample of Decedents From the Texas-Mexico Border**  
Chris McMillan, BS\*; Victoria Soto, MA; Courtney C. Siegert, PhD; Victoria Swenson, PhD; Chloe McDanel, MA; Abigayle Jose, BA

11:30 am—1:00 pm    **A36**    **Art or Science? Using FADAMA to Assess the “Art” of Synthesizing Skeletal Age-Interval Estimates**  
Sophia Henn, BA\*; Phoenix Farnham, BA\*; Allysha Winburn, PhD

11:30 am—1:00 pm    **A37**    **Considering the Biological Profile in 2026: Accuracy and Relevance in the Current Age**  
Chelsey Juarez, PhD\*; An-Di Yim, PhD; Cris Highes, PhD

# ANTHROPOLOGY

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- 11:30 am—1:00 pm **A38** WITHDRAWN
- 11:30 am—1:00 pm **A39** **Testing Non-Adult Age Estimation Methods on a Contemporary Taiwanese Sample**  
Kara Becker\*; An-Di Yim, PhD
- 11:30 am—1:00 pm **A40** **Age-Informative Features of the Sacral Auricular Surface**  
Krista Bennett, PhD\*;
- 11:30 am—1:00 pm **A41** **Developing a Radiographic Application of the Lamendin Method: A Non-Invasive Dental Aging Technique for Forensic Identification**  
Devin Williams, MA\*; Ann Ross, PhD
- 11:30 am—1:00 pm **A42** **A Test of the Accuracy of Skeletal Age Estimation Methods on a Modern South-Central United States Population**  
Alexandra Aaberg, BS\*
- 11:30 am—1:00 pm **A43** **A Test of the Cameriere et al. Pulp/Tooth Area Age Estimation Methods in a United States Population**  
M. Biannet Perez, MA\*; Kailee Behunin, BA; Alexandra Semma Tamayo, MSc; Laure Spake, PhD; Cai Caccavari, MA; Nolan Robinson, DDS
- 11:30 am—1:00 pm **A44** **Addressing Asymmetry in Phase-Based Age Estimation Methods**  
Allyson Simon, MS\*; Conner Gayagoy; Dawnie Steadman, PhD; Colleen Cheverko, PhD  
Mark Hubbe, PhD
- 11:30 am—1:00 pm **A45** **A Validation of the CADOES Method on a Taiwanese Sample**  
Madison Glenwinkel, BA\*; Elaine Chu, PhD; Shuo-Yen Lin, MCS; Michael Anekson Widjaya, PhD; Hung-Lin Chen, PhD; Chin-Chi Kuo, PhD
- 11:30 am—1:00 pm **A46** **Adult Age Estimation From the Pubic Symphysis and Sternal Rib: A Combined Revision of the Hartnett Methods**  
Author: Valerie Sgheiza, PhD\*; Kristen Hartnett-McCann, PhD\*
- 11:30 am—1:00 pm **A47** **Rethinking Expectations for Juvenile Growth and Development Based on an Analysis of a Michigan Medical Examinersample**  
Megan Carroll, BS\*
- 11:30 am—1:00 pm **A48** **Sex Estimation of the Patella Using Machine Learning in an African American Population** Eric Frauenhofer, MS\*
- 11:30 am—1:00 pm **A49** **Assessing the Effect of Method Options (Temporal Period, Ancestry, and World Region) on Sex Estimation using MorphoPASSE v1.0**  
Laura Lovell, BSc\*; Christiane Baigent, PhD
- 11:30 am—1:00 pm **A50** **Digital Stature Estimation Using Radiographic Measurements of the Tibia**  
Atlantis Baron, MA\*; Meradeth Snow, PhD
- 11:30 am—1:00 pm **A51** **Using Structural Equation Modeling to Investigate the Relationship Between Innominate Metrics and Morphology for Sex Estimation**  
Michael Kenyhercz, PhD; Kate Lesciotto, PhD; Carter Unger, MA\*  
(*FSF Emerging Forensic Scientist Award Poster Presentation*)

# ANTHROPOLOGY

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- 11:30 am—1:00 pm     **A52**     **Exploring the Relationship Between Heat-Related Fractures, Perimortem Context, and Trauma Mechanism**  
Allison Thomson, BS\*; Rylan Tegtmeyer Hawke, PhD; Catherine Jones, PhD
- 11:30 am—1:00 pm     **A53**     **Assessing the Accuracy of Entrance and Exit Wound Characterization in Long Bone Gunshot Wounds**  
Alexandra Semma Tamayo, MSc\*; Tal Simmons, PhD; Laure Spake, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am—1:00 pm     **A54**     **Asymmetry of Human Ribs: Considerations for Trauma Experiments and Interpretations** Randi Depp, PhD\*
- 11:30 am—1:00 pm     **A55**     **Bullet Wipe Analysis in Skeletal Gunshot Trauma Cases**  
Joe Adserias-Garriga, PhD\*; Flavia Rossell Hayes, BS; Chloe Yingling, BS; Sydney R. Carlson, APM
- 11:30 am—1:00 pm     **A56**     **WITHDRAWN**
- 11:30 am—1:00 pm     **A57**     **Narrowing the Age Range: The Utility of Cranial Suture Methods in Aging**  
Lyndsey Hornagold, MS\*; Erin Kimmerle, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am—1:00 pm     **A58**     **An Evaluation of Microscopic Techniques in Cementochronology for Forensic Age-at-Death Estimation**  
Amando Montalvo, MS\*; Carina Marques, PhD; Benoit Bertrand, PhD
- 11:30 am—1:00 pm     **A59**     **Anterior Mandibular Morphometry and Its Application in Juvenile Biological Profiling: A Quantitative Analysis and Possible Implications**  
Jennifer Geisen, MSc\*; Satu Valoriani, PhD; Matteo Borrini, PhD

## Thursday—Session I

### Emerging Approaches to Biological Profile Estimation in Forensic Anthropology

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Moderator: Krista Bennett, PhD

Co-Moderator: Christian Crowder, PhD

- 8:30 am—8:45 am     **A60**     **Investigating the Correlation Between Body Mass and Hip Joint Measurements in a Taiwanese Non-Adult Sample**  
Rachel Riddell, BA\*; An-Di Yim, PhD
- 8:45 am—9:00 am     **A61**     **Stature Estimation Based on Femoral Dimensions: A CT Study on Contemporary Greeks**  
Despoina Flouri, MD\*; Maria Arkouli; Elena Kranioti, PhD; Antonios Papadomanolakis, PhD; Efsevia Daskalaki, MSc; Eirini Chasapi, MSc
- 9:00 am—9:15 am     **A62**     **Tiny Proteins, Big Impact: Rethinking Sex Estimation Through Dental Proteomics**  
Niharika Bhardwaj, MSc\*; Shubham Thakur, MSc; Sanya Gaur, PhD
- 9:15 am—9:30 am     **A63**     **Using Virtual 3D Models of the Pelvis to Explore Biometric Relationships Between Transgender and Cisgender Adults**  
Taylor Flaherty, PhD\*; Molly Morano; Jennifer Byrnes, PhD; Carl Streed, MD; Amy Weimer, MD; Mark Litwin, MD

# ANTHROPOLOGY

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9:30 am—9:45 am      **A64**      **Testing Posterior Probability Informed Thresholds Using the Innominate, Cranial, and Combined Traits in MorphoPASSE: Best Practice Recommendations**  
Kate Lesciotto, PhD\*; Alexandra Klaes, PhD

9:45 am—10:00 am      **BREAK**

## Advancing Methods in Age Estimation and Population Affinity in Forensic Anthropology

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Moderator: Elaine Chu

Co-Moderator: Cheyenne Collins, MA

10:00 am—10:15 am      **A65**      **A New, Flexible, and Accurate Method for Histological Age Estimation From the Femoral Midshaft**  
Timothy Gocha, PhD\*; Shelby Garza, PhD; Amanda Agnew, PhD; Michael Kenyhercz, PhD; Justin Goldstein, PhD; Tessa Herbert, MA

10:15 am—10:30 am      **A66**      **Age-at-Death Estimation Using Micro-CT Analysis of the Hyoid Bone: A Forensic Anthropology Approach**  
Samuele Baldi, MD\*; Giovanni Cecchetto, MD, PhD; Gulnaz Javan, PhD; Chiara Girauda, MD, PhD; Miriam Nomba Belem; Laura Secco, MD

10:30 am—10:45 am      **A67**      **A Micro-CT Evaluation of the Sternoclavicular Joint for Age-At-Death Estimation: A Quantitative Microstructural Analysis**  
Laura Secco, MD\*; Pasquale Padalino, MD; Chiara Girauda, MD, PhD; Guido Viel, MD, PhD; Stefano Palumbi, MD; Giovanni Cecchetto, MD, PhD

10:45 am—11:00 am      **A68**      **Using Information Theory to Better Understand the Relationship Between the Cranial Phenotype and Group Membership**  
Christopher Wolfe, PhD\*; Kyra Stull, PhD

11:00 am—11:15 am      **A69**      **Exploring Population Affinity in United States Asian Populations**  
Amelia Konda, MA\*; Joseph Hefner, PhD; Kate Spradley, PhD; Matthew Go, PhD

11:15 am—11:30 am      **A70**      **Unrepresented and Misclassified: Evaluating FORDISC 3.1 Using Korean Crania**  
Yangseung Jeong, PhD\*; Addison Springer, BA

11:30 am—1:00 pm      **BREAK**

## Innovations in Computational and AI-Based Approaches to Forensic Anthropology

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Moderator: Kyra Stull

Co-Moderator: Anja Petaros

1:00 pm—1:15 pm      **A71**      **Automated Craniofacial Reconstruction Through the Use of Generative AI: The FaceGen Project**  
Oscar Ibáñez, PhD\*; M. Alejandra Guativonza Higuera, MSc; Javier Venema, MSc; Andrea Valsecchi, PhD; Pablo Mesejo, PhD; Guillermo Gómez-Trenado, PhD; Stéphane Lathuilière, PhD

1:15 pm—1:30 pm      **A72**      **WITHDRAWN**

# ANTHROPOLOGY

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- 1:30 pm—1:45 pm     **A73**     **Introducing MOSAIC: Methods of Sex, Stature, Affinity, and Age for Identification Through Computational Standardization**  
Joseph Hefner, PhD; Kate Lesciotto, PhD; Michael Kenyhercz, PhD; Heather Edgar, PhD; Kate Spradley, PhD; Alexandra Klaes, PhD\*
- 1:45 pm—2:00 pm     **A74**     **Something Old, Something New, Something Borrowed: Interpretable Deep Learning for Forensic Sex and Age Estimation**  
Željana Bašić, PhD\*; Ivana Kružić, PhD; Ivan Jerković, PhD
- 2:00 pm—2:15 pm     **A75**     **Combining the Micro With the Macro: Age Estimation Using Machine Learning Methods With Histological Variables and Traditional Indicators**  
Sophia Mavroudas, PhD\*; Lauren Meckel, PhD; Nicholas Herrmann, PhD; Justin Goldstein, PhD
- 2:15 pm—2:30 pm     **A76**     **Applying Machine Learning Models in Forensic Anthropology for Sex Estimation From Long Bone Diaphysis Shape**  
Melanie Beasley, PhD\*; Talha Mahmud, MS; Fengqing Zhu, APM
- 2:30 pm—2:45 pm     **BREAK**

## Developments in Forensic Anthropology: Skeletal Analysis, Decision-Making, and Emerging Methods

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Moderator: Carolyn Isaac

Co-Moderator: Theresa De Cree, MS

- 2:45 pm—3:00 pm     **A77**     **An Assessment of Subadult Skeletal Growth and Development Based on a Michigan Medical Examiner Sample**  
Megan Carroll, BS\*
- 3:00 pm—3:15 pm     **A78**     **WITHDRAWN**
- 3:15 pm—3:30 pm     **A79**     **A Foundational Analysis of Practitioner Decision-Making and Interaction With FORDISC**  
Marion Davidson, MSc\*; Micayla Spiros, PhD; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 3:30 pm—3:45 pm     **A80**     **Breaking Down Expertise: How Experience Shapes Sex Estimation in Forensic Anthropology**  
Nicole Mantl, MSc\*; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil
- 3:45 pm—4:00 pm     **A81**     **Areas of Interest: Eye-Tracking in Forensic Anthropology Sex Estimation**  
Nicole Mantl, MSc\*; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil
- 4:00 pm—4:15 pm     **A82**     **Combining Intracortical Porosity, Histomorphometric, and Toxicological Data to Describe a Profile of Bone Pathological Tissue Changes Associated With Polysubstance Toxicity: A Canadian Perspective**  
Janna Andronowski, PhD\*; Joshua Taylor, MS; Cindy Whitten, PhD; Syed Raza, APM; Shane Randell, MS; Nash Denic, MD, PhD
- 4:15 pm—4:30 pm     **A83**     **An Examination of How Skeletal Element and Microstructure Alter DNA Amplification in a Novel Environment**  
Shelby Saut, MA\*; Ashley Kendell, PhD; Beth Shook, PhD

# ANTHROPOLOGY

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## Thursday – Session II

### Advances in Isotope Analysis for Human Identification

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Moderator: Christaine Baigent

Co-Moderator: Janamarie Truesdell, DPhil

- 8:00 am—8:15 am      **A84**      **Estimating Multi-Residency From Bulk  $\delta^{18}O$  Enamel Carbonate Sampling**  
Thomas Delgado, MA\*; Kirsten Verostick, PhD; Gabriel Bowen, PhD;  
Stephanie Covarrubias, MPH; Chris Stantis, PhD
- 8:15 am—8:30 am      **A85**      **Isotope Ratios in Paired Human Bone and Hair Samples for Forensic Applications**  
Tiffany Fracchia, PhD\*; Gregory Berg, PhD; Lesley Chesson, MS
- 8:30 am—8:45 am      **A86**      **United States Tooth Enamel Oxygen Isoscapes for Human Identification**  
Gabriel Bowen, PhD\*; Kirsten Verostick, PhD; Gregory Berg, PhD; Lesley Chesson, MS;  
Thomas Delgado, MA; Chris Stantis, PhD
- 8:45 am—9:00 am      **A87**      **A Dual-Isotope Approach to Enhancing Isotopic Models for the Identification of Human Remains in North Carolina**  
Nicole Long, PhD\*; Ethan Hyland, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 9:00 am—9:15 am      **BREAK**

### New Approaches for Commingling Resolution

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Moderator: Micayla Spiros, PhD

Co-Moderator: Esther, Choo, MA

- 9:15 am—9:30 am      **A88**      **Reassociation of Commingled Tibiae and Tali Using Geometric Morphometrics**  
Nicole Wray, MS\*; Stephanie Melillo, PhD
- 9:30 am—9:45 am      **A89**      **An Isotope-Aided Multifactorial Segregation of Skeletal Individuals From a Complex Small-Scale Commingled Assemblage**  
Janet Finlayson, PhD\*; Gregory Berg, PhD; Rebecca Taylor, PhD; Lesley Chesson, MS
- 9:45 am—10:00 am      **A90**      **Laser-Induced Breakdown Spectroscopy of Submerged Remains: The Implications for Their Re-Association in Commingled Situations**  
Matthieu Baudelet, PhD\*; Kristen Livingston, PhD; Gregory Berg, PhD; Lesley Chesson, MS;  
John Lucchi, PhD; John Byrd, PhD
- 10:00 am—10:15 am      **A91**      **Man's Best Friend: Multi-Species Commingling Resolution of Highly Fragmented, Canine-Scavenged Remains Using Zooarchaeology by Mass Spectrometry (ZooMS)**  
Andrea Palmiotto, PhD\*; Jerry Overman; Emily Sykora, MA; Anneke Janzen, PhD
- 10:15 am—10:30 am      **BREAK**

# ANTHROPOLOGY

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## Medical and Anatomical Markers in Forensic Human Identification

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Moderator: Natalie Langley, PhD

Co-Moderator: Catherine Jones, PhD

- 10:30 am—10:45 am    **A92**    **Investigating the Utility of Surgical Intervention Products for Personal Identification**  
Jered Cornelison, PhD\*; B Charles, PhD; Christine Pink, PhD
- 10:45 am—11:00 am    **A93**    **Personal Identification Through Comparative Medical Radiography: Guiding Training Through Recent Trends**  
B Charles, PhD\*; Jered Cornelison, PhD; Christine Pink, PhD
- 11:00 am—11:15 am    **A94**    **Quantifying the Frontal Sinus to Improve Positive Identification Methods**  
Brailey Moeder, MS\*; Stephanie Melillo, PhD
- 11:15 am—11:30 am    **A95**    **Anatomical Variants of the Skull: The Potential Use for Identification Purposes**  
Paolo Palermo, MD\*; Sofia Alemanno; Carlo Pietro Campobasso, MD, PhD;  
Andrea Palamenghi, PhD; Giulia Caccia, PhD; Daniele Maria Gibelli, MD, PhD  
(*FSF Emerging Forensic Scientist Award Oral Presentation*)
- 11:30 am—1:00 pm                    **BREAK**

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## Climate Change in Forensic Anthropology

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Moderator: Jennifer Byrnes, PhD

Co-Moderator: Colleen Milligan, PhD

- 1:00 pm—1:15 pm    **A96**    **Drier Futures, Falling Waters: A Retrospective Analysis of Lake Mead's Forensic Anthropology Cases**  
Jennifer Byrnes, PhD\*; Liam Johnson, MA; Dayanira Lopez, MS; Melanie Rouse, MA;  
Nathan Shaller, MD
- 1:15 pm—1:30 pm    **A97**    **Wildfire Deployment: Lessons From the California Wildfires**  
Alison Galloway, PhD\*; Chelsey Juarez, PhD; Elayne Pope, PhD
- 1:30 pm—1:45 pm    **A98**    **The Impact of Climate Change on the Mortality of Migrants: Forensic Casework in the United States Southwest**  
Jasmine Hernandez, MS\*; Lexi O'Donnell, PhD; Heather Edgar, PhD; Daniel Martinez, PhD;  
Laura Nellums, PhD
- 1:45 pm—2:00 pm    **A99**    **Climate Change and Mass Disasters: The Role of Forensic Anthropology Outreach in Helping Communities Better Prepare for Mass Disasters**  
Colleen Milligan, PhD\*; Eric Bartelink, PhD; Ashley Kendell, PhD; Shannon Clinkinbeard, MA;  
Amber Plemons, PhD
- 2:00 pm—2:15 pm                    **BREAK**
- 2:15 pm—2:30 pm    **A100**    **Scavengers on the Move: Geospatial Evidence of Changing Vulture Behavior in Forensic Landscapes**  
Lauren Pharr-Parks, PhD\*
- 2:30 pm—2:45 pm    **A101**    **Climate Change, Vulnerability, and the 2023 Lahaina Fire Victims' Locations and Demography**  
Patrick Willey, PhD\*; Casey Hegel, MA
- 2:45 pm—3:00 pm    **A102**    **The Geography of Forensic Absence: Climate, Natural Disasters, and the Search for Unidentified Persons in Louisiana**  
Teresa Wilson, PhD\*; Sara Finn, MA
- 3:00 pm—3:15 pm                    **DISCUSSION AND Q&A**

# ANTHROPOLOGY

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## Friday

### Poster Session

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- 11:30 am – 1:00 pm     **A103**     **A Cold Case Reanalysis Demonstrates the Importance of Forensic Anthropology Training in the Interpretation of Trauma to the Skeleton**  
Ella Uren, BS\*; Krista Latham, PhD
- 11:30 am – 1:00 pm     **A104**     **Identification Patterns in Operation Identification Cases**  
Emma Giacomello, MA\*; Michelle Hamilton, PhD; Kate Spradley, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A105**     **Dignity in Death: Developing Remote Case Management and Burial Protocols for Long-Term Unidentified Decedents**  
Victoria Swenson, PhD\*; Molly Kaplan, PhD; Daniela Martinez Herrera, BA; Abigayle Jose, BA; Ashley Fields, BS; Hannah Stottlemyre, MA  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A106**     **WITHDRAWN**
- 11:30 am – 1:00 pm     **A107**     **Close-Interval Metal Detection of Wreckage at Crash Sites of Large Aircraft to Identify Priority Areas for the Recovery of Human Remains**  
Lillian Antonelli, MA\*; David Bavencoff, MS; Andrea Palmiotto, PhD; Lexi Dengah, BA; Francesca Fiorello; Axel Valdez Ruiz
- 11:30 am – 1:00 pm     **A108**     **An Evaluation of the Use of Alternate Light Sources in the Search for Burned Skeletal Remains**  
Jessica Lucia, MA\*; James Russell, BFA; Tal Simmons, PhD; Stephen Stockman, MPA; Jenise Swall, PhD
- 11:30 am – 1:00 pm     **A109**     **Ground Penetrating Radars in Forensic Anthropology: Evaluating Efficacy Through Controlled Systematic Surveys**  
Dawson Lamb, MA\*; Anthony Lanfranchi, MS\*  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A110**     **Anthropological Approaches to Identification in a Historic World War II Aircraft Loss: The Crew of *Little Joe***  
Catherine Jones, PhD\*; Katie East, PhD; Carrie Brown, PhD
- 11:30 am – 1:00 pm     **A111**     **From Chaos to Connection: Reassociating Arm Bones in Commingled Contexts**  
Anna La Valley, MSc\*; Erica Baer, PhD; Xenia Paula Kyriakou, PhD
- 11:30 am – 1:00 pm     **A112**     **Occipito–Atlas Reassociation in Commingled Skeletal Remains**  
Anna La Valley, MSc\*; Stavri Karasiali, MSc\*; Erica Baer, PhD; Xenia Paula Kyriakou, PhD
- 11:30 am – 1:00 pm     **A113**     **Examining Contributing Factors to Natural Human Mummification at FOREST in Cullowhee, North Carolina: A Continued Investigation**  
Alex Vacca\*; Kaleigh Best, PhD; Rebecca George, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A114**     **Terrestrial Scavenger Activity on Human Remains at FROST**  
Emma Gariepy, BSc\*; Hayden McKee-Zech, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*

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- 11:30 am – 1:00 pm     **A115**     **The Importance of Scene Context in Anthropological Time-Since-Death Estimation: “Back to the Basics” of PMI**  
Ariana Strasheim, MA\*; Allysha Winburn, PhD\*; Taylor Walkup, MA\*; Emily Romdemne, MA\*
- 11:30 am – 1:00 pm     **A116**     **The Effects of Obesity on Decomposition by Measuring Mass Loss Percentage and Postmortem Interval Estimation**  
Paige Jackson, MA\*; Danny Wescott, PhD\*
- 11:30 am – 1:00 pm     **A117**     **A Preliminary Study of Human Decomposition in Aquatic Environments in Greece**  
Christina Karydi, PhD\*; Giorgos Kyros, MSc; Konstantinos Moraitis, PhD\*; Kostas Lagouvardos, PhD
- 11:30 am – 1:00 pm     **A118**     **A Test of Thermal Damage Recording Systems With Advancing Decomposition**  
Mariah Moe, PhD\*; Sophia Mavroudas, PhD; Danny Wescott, PhD; Hailey Collord-Stalder, MA
- 11:30 am – 1:00 pm     **A119**     **The Accuracy of PMI Predictions in GeoFOR Using Retrospective Decomposition Data**  
Victoria Eacott, BA\*; Sydney Munkus, BS; Tempest Mellendorf, MS  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A120**     **Adipocere Formation in a Subtropical Climate and the Most Effective Method to Process Adipocere on Skeletal Remains**  
Amanda Schultz, BA\*; Erin Kimmerle, PhD
- 11:30 am – 1:00 pm     **A121**     **The Decomposition of Buried Human Remains in a Semi-Arid Environment**  
Alexander Smith, BA\*
- 11:30 am – 1:00 pm     **A122**     **Dirt, Decay, and Dentition: Taphonomic Alterations to Teeth From Buried Skeletal Remains in Southwest Florida**  
Emmalee Bullington, BS\*; Micki Besse, MS; Heather Walsh-Haney, PhD; Savanna Agilar, MS; Jeffery Kleeger, PhD; Shawn Keller, PhD
- 11:30 am – 1:00 pm     **A123**     **Evaluating the Total Body Score (TBS) Method to Assess Performance of PMI Estimates in Forensic Casework**  
Katherine Weisensee, PhD\*; Madeline Atwell, PhD; Hudson Smith, PhD
- 11:30 am – 1:00 pm     **A124**     **Investigating the Applicability of Different Postmortem Interval Estimation Methods in the Mid-Atlantic Region**  
Mason Kalin\*; Kennedie Lyles, BS\*; An-Di Yim, PhD; Emily Rancourt, MSFS; Molly Kilcarr, BS; Chloe Cummings, BS
- 11:30 am – 1:00 pm     **A125**     **Saturated (Equatorial) Savanna Soils: The Efficacy of Anaerobic Postmortem Interval Estimations in Southwest Florida**  
Savanna Agilar, MS\*; Micki Besse, MS; Heather Walsh-Haney, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm     **A126**     **The Need for Additional Environmental Diversity in Human Decomposition Research Facility Locations**  
Rachael McCrary, MS\*; Nicholas Passalacqua, PhD
- 11:30 am – 1:00 pm     **A127**     **A Camera Trap Analysis of Songbird Scavenging Behavior at the Anthropology Research Facility (ARF) - University of Tennessee, Knoxville (UTK)**  
Owen VanAntwerpen, BS\*; Hayden McKee-Zech, PhD; Cory Elowe, PhD
- 11:30 am – 1:00 pm     **A128**     **Assessing the Influences of Burial Environment and Season of Interment on Fetal Pig (*Sus Scrofa*) Decomposition in Western Pennsylvania**  
Dakota Dickerson, MA\*; Alexandra Schmidt, BA; Andrea Palmiotto, PhD

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- 11:30 am – 1:00 pm    **A129**    **Investigating the Effectiveness of 3D Documentation of Taphonomic Changes**  
Emily Powell\*; Chloe Cummings, BS; An-Di Yim, PhD; Emily Rancourt, MSFS;  
Marlowe Vaughn-Bueler, MS
- 11:30 am – 1:00 pm    **A130**    **Soil Types and Components That Influence Toolmark Retention for Forensic Archaeological Cases**  
Josephine Reid, BSc\*; Roland Wessling, MSc; David Errickson, PhD
- 11:30 am – 1:00 pm    **A131**    **Utilizing pXRF to Resolve Unusual Discoloration in Cremains: A Case Study**  
Samantha McCrane, PhD\*; Phoebe Stubblefield, PhD
- 11:30 am – 1:00 pm    **A132**    **The Persistence of Ultraviolet Bone Autofluorescence Following Submersion in a Corrosive Acidic Solution**  
Kendall Gehring, MA
- 11:30 am – 1:00 pm    **A133**    **Scattered Man: The Curious Case of Captain Henry Goodsell**  
Anna Delaney, DCrim\*; Thomas Crist, PhD; Gina Hart, MA
- 11:30 am – 1:00 pm    **A134**    **Exploring the Influence of Loading Direction on Fracture Characteristics in Human Tibiae**  
Amanda Agnew, PhD\*; Christopher Goden, MA; Kyra Stull, PhD; Angela Harden, PhD;  
Julia McGinley, BS
- 11:30 am – 1:00 pm    **A135**    **Incomplete Kerf Morphology and Saw Class Characteristics: Comparative Statistical Insights From Fleshed and Defleshed Experimental Dismemberments**  
Stephanie Cole, PhD\*; Heather Garvin, PhD
- 11:30 am – 1:00 pm    **A136**    **The Resilience of Cut Mark Characteristics: A New Experimental Study on the Effect of Fire on Fleshed Remains**  
Mariah Morris, MSc\*; Giada Steiger, MSc; Matteo Borrini, PhD
- 11:30 am – 1:00 pm    **A137**    **Investigating the Utility of Micro-CT for Human and Non-Human Bone Compared to Traditional Histology**  
Rose Raymer\*; Laura Cirillo, PhD; Savannah McAdow, MA
- 11:30 am – 1:00 pm    **A138**    **Modeling Sharp Force Trauma: A Bayesian Approach to Differentiate Bone Surface Modifications From Straight and Serrated Blades**  
Alexander Cortes, BS; Kymani Bledsoe; Jacob Harris, PhD\*; William Nyce
- 11:30 am – 1:00 pm    **A177**    **A Preliminary Review of Long-Term Unidentified Decedents at the West Tennessee Regional Forensic Center**  
Lauren Santoro, BS\*; Danielle Harrell, DO; Diana Messer, PhD

## *Friday – Session I*

### **Bone Trauma: Advances in Sharp Force, Projectile, Blast, and Thermal Analysis**

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Moderator: Sara Zapico, PhD

Co-Moderator: Lillian S. Antonelli, MA

- 8:30 am—8:45 am    **A139**    **Chopping/Hacking Sharp Force Trauma on Bone: A Forensic Analysis of Cut Marks Using Macroscopic and Microscopic Techniques**  
Kelly McGehee, MA\*; John Schultz, PhD
- 8:45 am—9:00 am    **A140**    **Standardizing and Re-Evaluating Observer Agreement in Kerf Traits Commonly Used to Predict Saw Class Characteristics**  
Ashley Maxwell, PhD\*; Alexandra Klales, PhD

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- 9:00 am—9:15 am     **A141**     **Crack Propagation in Projectile-Impacted Human Long Bones**  
Angi Christensen, PhD; Mariyam Isa, PhD\*; Brian Spatola, MA; Timothy Gocha, PhD
- 9:15 am—9:30 am     **A142**     **Classifying Projectile Entrances and Exits in Flat Bone: Insights and Challenges With Machine Learning**  
Mariyam Isa, PhD; Delaney Edwards, MA\*
- 9:30 am—9:45 am     **A143**     **Primary Skeletal Blast Trauma: Examining the Effects of the Blast Wave on Skeletal Trauma Using Postmortem Human Subjects and Non-Human Proxies**  
Petra Banks, PhD\*
- 9:45 am—10:00 am     **A144**     **Evaluating Dimensional Changes in Long Bones Exposed to Fire**  
Joe Adserias-Garriga, PhD\*; Laia Nogue, MS; Luis Cabo, MS; Marta Fernandez-Viejo, MS; Laura Rodriguez, PhD; Rebecca Garcia-Gonzalez, PhD
- 10:00 am—10:15 am     **BREAK**

## New Frontiers in Skeletal Trauma Analysis

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Moderator: Benjamin Figura, PhD

Co-Moderator: Amy Spies, PhD

- 10:15 am—10:30 am     **A145**     **A Preliminary Comparative Assessment of Digital Imaging Modalities for Fractographic Analysis**  
Delaney Edwards, MA\*; Angela Harden, PhD; Mary Cole, PhD
- 10:30 am—10:45 am     **A146**     **A Comparison of Postmortem Radiograph Modalities for the Detection of Infant Skeletal Trauma**  
Miriam Soto Martinez, PhD\*; Jason Wiersema, PhD; Julie Fleischman, PhD; Si Gao, MS; Michal Pierce, MS
- 10:45 am—11:00 am     **A147**     **A Micro-CT Analysis of False Start Marks on Fire-Exposed Human Bones**  
Laura Secco, MD\*; Ludovico Fava, MD; Chiara Giraud, MD, PhD; Guido Viel, MD, PhD; Stefano Palumbi, MD; Giovanni Cecchetto, MD, PhD
- 11:00 am—11:15 am     **A148**     **Opening the Black Box: Visualizing AI Decisions in Forensic Trauma Analysis**  
Giada Steiger, MSc\*; Matteo Borrini, PhD
- 11:15 am—11:30 am     **A149**     **Harnessing Machine Learning to Evaluate Microscopic Characteristics of Skeletal Trauma**  
Keivan Nalaie, PhD\*; Jessica Skinner, PhD; Aurely Sanchez Carreon, BS; Loukham Shyamsunder, PhD; Subramaniam Rajan, PhD; Natalie Langley, PhD\*
- 11:30 am—1:00 pm     **BREAK**

## From Fundamentals to Formulation: Developing Interdisciplinary Approaches for Taphonomy Research

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Moderator: Angela Dautartas, PhD

Co-Moderator: Derek Boyd, PhD

- 1:00 pm—1:15 pm     **A150**     **Developing Evidence-Based Approaches for Taphonomic Histories: A Call for Communication Across the Disciplinary Divide**  
Derek Boyd, PhD; Angela Dautartas, PhD\*; Hayden McKee-Zech, PhD; Erin Patrick, MSc; Kelly Sauerwein, PhD
- 1:15 pm—1:30 pm     **A151**     **A Foundational Exploration of the Scavenger Guild in Baltimore, Maryland**  
Marion Davidson, MSc\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

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- 1:30 pm—1:45 pm     **A152**     **The Detection of Decomposition in Soil With Portable X-Ray Fluorescence**  
Rhys Williams, PhD\*
- 1:45 pm—2:00 pm     **A153**     **Taphonomic Analyses of Hair: From Postmortem Root Banding to Environmental Degradation**  
Sandra Koch, PhD\*
- 2:00 pm—2:15 pm     **BREAK**
- 2:15 pm—2:30 pm     **A154**     **The Application of geoFOR at the Anthropological Research Facility (ARF)**  
Tempest Mellendorf, MS\*; Devin Adcox, MA; Sydney Munkus, BS; Victoria Eacott, BA  
(*FSF Emerging Forensic Scientist Award Oral Presentation*)

## Forensic Recovery and Reconstruction: Technology, Environment, and Taphonomy

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Moderator: Ginesse Listi, PhD

Co-Moderator: Ella Uren, BX

- 2:30 pm—3:00 pm     **A155**     **A Web-Based Application for Predicting the Fluvial Transport of Human Remains in the Sacramento River, California: Case Applications for Constraining Search Parameters for River Victims**  
Jazmin Borrayo, BA\*; Eric Bartelink, PhD; Colleen Milligan, PhD
- 3:00 pm—3:15 pm     **A156**     **From Scene to Screen: 3D Data Collection Options for Forensics**  
Jessica Cronin, MS\*; Stephanie Melillo, PhD
- 3:15 pm—3:30 pm     **A157**     **Virtual Bonescape: Integrating Two Recovery Methods, Virtual Re-Association of Fragmented Remains and Scene Reconstruction, in a Disaster Victim Identification Context**  
Lise Malfroy Camine, DDS\*; Silke Grabherr, PhD; Negahnaz Moghaddam, PhD; Vincent Varlet, PhD
- 3:30 pm—3:45 pm     **BREAK**
- 3:45 pm—4:00 pm     **A158**     **The Impact of Decomposition Stage, Hypoxia, and Enclosure in a Class C Motorhome on the Morphological Trajectory of Fire-Exposed Human Remains**  
Christiane Baigent, PhD\*
- 4:00 pm—4:15 pm     **A159**     **Gull (*Laridae*) Scavenging and Dispersal of Pig (*Sus Scrofa*) Remains on Appledore Island, Maine**  
Austin Millwood, BA, BS\*; James Pokines, PhD
- 4:15 pm—4:30 pm     **A160**     **Patterns of Vulture Scavenging in West Central Florida**  
Tuesday Frasier, MS\*; Erin Kimmerle, PhD  
Erin Waxenbaum, PhD\*; Katharine Pope, MA

# ANTHROPOLOGY

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## Friday – Session II

### Standards, Best Practices, and Professional Well-Being in Forensic Anthropology

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Moderator: Alice Gooding, PhD

Co-Moderator: Thomas Delgado, MA

- 8:30 am—8:45 am      **A161**      **An Assessment of Standard Operating Procedures for Forensic Anthropology at Accredited United States Laboratories**  
Marion Davidson, MSc\*; Allysha Winburn, PhD; Taylor Flaherty, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 8:45 am—9:00 am      **A162**      **WITHDRAWN**
- 9:00 am—9:15 am      **A163**      **Standards Development in Forensic Anthropology: Progress and Updates From the OSAC and ASB**  
Eric Bartelink, PhD\*; Julie Fleischman, PhD
- 9:15 am—9:30 am      **A164**      **Normalizing Discussions of Mental Health in Forensic Anthropology**  
Katharine Pope, MA\*; Erin Waxenbaum, PhD
- 9:30 am—9:45 am      **BREAK**

### Balancing Justice and Responsibility: Contemporary Ethical Challenges in Forensics

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Moderator: Amanda Williams, PhD

Co-Moderator: Melinda Carter, PhD

- 9:45 am—10:00 am      **A165**      **An Examination of the Medicolegal Processes Relating to Native American Repatriation**  
Arielle Reich, MA\*; Cris Hughes, PhD; Marynia Kolak, PhD; Catherine Discenza, BS;  
Krystiana Krupa, MSL; Jenny Davis, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:00 am—10:15 am      **A166**      **Assessing Forensic Significance and Ethical First Steps at the West Tennessee Regional Forensic Center**  
Christine Bailey, MA; Diana Messer, PhD; Devin Adcox, MA\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:15 am—10:30 am      **A167**      **Ethics and Preventive Forensics in the Face of Violent Deaths: WWCD (What Would Clyde Do)?**  
Derek Congram, PhD\*; Nicholas Passalacqua, PhD; Marin Pilloud, PhD;  
Hugo Rodriguez-Almada, MD; Gina Hart, MA; Mark Skinner, PhD
- 10:30 am—10:45 am      **A168**      **Language at the Border: Changing Our Language Changes Our Perspective**  
Makenna Mizell, BA\*; Chastidy Gilbert, BA; Krista Latham, PhD; Amandine Eriksen, PhD;  
Lillian Bucher, BS; Frankey Leggio, MS  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:45 am—11:00 am      **A169**      **Preventing a Repeat of the Past: Ethical Considerations in Data Collection and Use in the Age of Artificial Intelligence and Machine Learning**  
Ashley Smith, MSc\*; Eman Faisal, MSc
- 11:00 am—11:15 am      **A170**      **The Impact of Collection-Specific Sample Bias on Aggregate Cranial Morphology in United States-Based Documented Skeletal Collections**  
Rhian Dunn, PhD\*; Joseph Hefner, PhD

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11:15 am—11:30 am     **A171**     **Defining Effective Investigation: A Fundamental Requirement for the Examination of Mass Graves and Other Atrocity Crime Scenes**  
Ian Hanson, PhD\*; Melanie Klinkner, PhD; Diego Nunez, MSc; Ellen Donovan, MA

11:30 am—1:00 pm     **BREAK**

## From Numbers to Names: Forensic Perspectives on Missing and Unidentified Individuals

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Moderator: Brittany Walker, PhD

Co-Moderator: Nikki Long, PhD

1:00 pm—1:15 pm     **A172**     **Who Are the Nation's Unidentified? Assessing Demographics and Case Characteristics of Long-Term Unidentified Persons in the United States**  
Molly Kaplan, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

1:15 pm—1:30 pm     **A173**     **Digging Up Doe: An In-Depth Study of Exhumations in Cold Case Investigations**  
Erin Kimmerle, PhD\*; Kelsee Hentschel-Fey, MA; Amanda Schultz, BA; Lauren Nichols, MA

1:30 pm—1:45 pm     **A174**     **Operation Identification: Ethnographic Stories Beyond Turning Numbers Into Names**  
Victoria Soto, MA\*; Ivanna Robledo, MA; Daniela Martinez Herrera, BA  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

1:45 pm—2:00 pm     **A175**     **The Missing and Unidentified at La Frontera: Communication Networks and the Forensic Anthropologist's Role at the México-United States Border**  
Aliya Godoy, MA\*

2:00 pm—2:15 pm     **A176**     **Understanding Missingness: A Case Study Utilizing the Mississippi Repository for Missing and Unidentified Persons**  
Sarajane Smith-Escudero, MA\*; Rachel Coppock, BA; Jesse Goliath, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

**A177**     **Moved to a Friday poster presentation**

2:15 pm—2:45 pm     **BREAK**

## Forensic Recovery and Identification Across Disasters, Conflicts, and Migration Contexts

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Moderator: Heather Walsh-Haney, PhD

Co-Moderator: Amanda Walker, BS

2:45 pm—3:00 pm     **A178**     **A Look at the Disaster Response to Hurricane Katrina: How Far Have We Come in 20 Years?**  
Gina Hart, MA\*; Julia Powers, MA; Ryan Siedemann, PhD

3:00 pm—3:15 pm     **A179**     **When Men Are Prey: Melee Skeletal Trauma Patterns From the 1921 Tulsa Graves Investigation**  
Phoebe Stubblefield, PhD\*; Angela Berg, MA; Heather Walsh-Haney, PhD; Arion Mayes, PhD; Sheridan Lea, MSc

3:15 pm—3:30 pm     **A180**     **A Preliminary Examination of the Evidentiary Value of Trauma to Individual Skeletal Elements in Distinguishing Between Circumstances of Death**  
Maria Nektaria Antoniou, LLM, MS\*; Nicholas Marquez-Grant, PhD; Rick Schulting, PhD

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- 3:30 pm—3:45 pm      **A181**      **Necrosilences of the Central Mediterranean: A Preliminary Exploration of Differential Treatment Within the Medicolegal Systems of Tunisia & Malta in Their Responses to Missing & Deceased Migrant Cases**  
Skylar Joseph, MS\*
- 3:45 pm—4:00 pm      **A182**      **WITHDRAWN**
- 4:00 pm—4:15 pm      **A183**      **WITHDRAWN**
- 4:15 pm—4:30 pm      **A184**      **Reducing Identification Timelines in South Texas: Assessing the Impact of Postmortem Fingerprinting on Medicolegal Bottlenecks**  
Mackenzie Murray, BS\*; Molly Kaplan, PhD; Kate Spradley, PhD; Courtney Siegert, PhD; Victoria Swenson, PhD; Valerie Arroyo, BA

# CRIMINALISTICS

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## Wednesday

### Poster Session

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- 11:30 am—1:00 pm     **B1**     **Advancing Forensic Analysis With Chemical Imaging Microspectroscopy**  
James Cizdziel, PhD\*; Kendall Wontor, PhD
- 11:30 am—1:00 pm     **B2**     **An Expanded Uncertainty Assessment of GC/MS Chromatographic Peak Area and Retention Time**  
Emma Hardwick, BA\*; J. Tyler Davidson, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B3**     **The Application of HS/SPME-GC/MS for Hydraulic Fluid Compound Detection in Jet Fuels**  
Javier Hodges, BS\*; Jorn Yu, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B4**     **An Evidence-Based Method for Determining Cause of Death in a Double Homicide Involving Matricide and Patricide**  
Gennaro Baldino, MD, PhD\*; Cataldo Raffino, MD; Giorgia Burrascano, MD\*;  
Elvira Ventura Spagnolo, MD; Domenico Abramo, MD\* Gabriele Rotter, MSc
- 11:30 am—1:00 pm     **B5**     **A Forensic Approach to Quantifying Environmental Tobacco Smoke Exposure in Hair: Method Development and Analysis of Cosmetic Treatment Effects**  
Tanique Z Jones, BSc; Somayah Mohammadi, PhD; Hamidreza Sharifan, PhD\*;  
Christopher J Trejo, BSc
- 11:30 am—1:00 pm     **B6**     **WITHDRAWN**
- 11:30 am—1:00 pm     **B7**     **Toward a New Forensic Tool: Elemental Profiling of Tire Rubber in Traffic Homicide Cases**  
John Lucchi, PhD\*; James McAleer, BS; Matthieu Baudelet, PhD
- 11:30 am—1:00 pm     **B8**     **Washington DC Department of Forensic Sciences: A Strategic Approach to Optimizing Laboratory Operational Efficiency—DC DFS’s Implementation of the Casework Administration Group**  
Krystyna Hopkinson, MScFS\*
- 11:30 am—1:00 pm     **B9**     **Prints That Matter: Identifying the Most Productive Evidence Through Analytical Reporting**  
Angelic Rountree, BS\*
- 11:30 am—1:00 pm     **B10**     **The Relationship Between the Ridge Patterning and the Frequency of Minutiae on the Interdigital Area of Palmprints**  
Angela Tonietto, MSc\*; Patrick Buzzini, PhD
- 11:30 am—1:00 pm     **B11**     **WITHDRAWN**
- 11:30 am—1:00 pm     **B12**     **WITHDRAWN**

# CRIMINALISTICS

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11:30 am—1:00 pm	<b>B13</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B14</b>	<b>Hand Detail Image Comparisons: The State of the Discipline for an Emerging Forensic Methodology</b> Nicole Richetelli, PhD*; William Chapman, APM; Richard Vorder Bruegge, PhD; Jim Cole
11:30 am—1:00 pm	<b>B15</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B16</b>	<b>The Washing Away of Evidence: The Effect of Different Washing Treatments on Body Fluid Identification and DNA Profiling From Stained Clothing Fabrics</b> Sara C. Zapico, PhD*; Francisco Medina-Paz, PhD; Maria Josefina Castagnola, MSc; Gabriela Roca, MD, PhD; Vasilisa Yukhno
11:30 am—1:00 pm	<b>B17</b>	<b>The Differentiation of Cell Populations in Saliva-Skin Mixture Samples Using Cellular Autofluorescence Profiling</b> Kara Fairfax, BS*; Christopher Ehrhardt, PhD; Arianna DeCorte, MS
11:30 am—1:00 pm	<b>B19</b>	<b>A New Spin on DNA Extraction: Validating SpermX GenSpin Differential Extraction for Sexual Assault Evidence Processing</b> Tori Tyree, BS*; Amy McGuckian, MFS; Julie Sikorsky, MSc; Kelly Beatty, MSFS
11:30 am—1:00 pm	<b>B20</b>	<b>Cell-Free DNA From Clinical Sperm Samples</b> Xuxiang LI, MS*; Robin Cotton, PhD
11:30 am—1:00 pm	<b>B21</b>	<b>Differential Extraction: A Comparison of SpermX and I-Sep DL-MB to Determine Cell Separation Efficiency and Kit Sensitivity</b> Evan Wheeler, MS*; Rhonda Williams, PhD
11:30 am—1:00 pm	<b>B22</b>	<b>From Swabs to Sequencing: Integrating Y-Screening and NGS Into Sexual Assault Evidence Processing</b> Lyndsy Stacy, MS*; Joshua Boster, MS; Rachel Houston, PhD; Jennifer Snedeker, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B23</b>	<b>DNA Sample Success Rates and Selecting the Most Impactful Evidence for DNA Testing</b> Julie Ferragut, BS*
11:30 am—1:00 pm	<b>B24</b>	<b>MixMaSTR: A Software Package for Designing and Interpreting Forensic DNA Validation Studies</b> Sarah Riman, PhD*; Hari Iyer, PhD; Peter Vallone, PhD; Sarra Chouder, MSc; Edgar Robitaille; Benjamin Long, BBA
11:30 am—1:00 pm	<b>B25</b>	<b>Validation of the ForenSeq Kintelligence Kit on the MiSeq FGx for Investigative Genetic Genealogy at Marshall University Forensic Science Center</b> Tara Knoblach, BS*; Emma Katzmann, CLS; Eric Miller, MS; Laura Kuyper, MS; Cassandra Taylor, MS; Chelsea Garza, PharmD

# CRIMINALISTICS

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## Thursday

### Poster Session

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11:30 am—1:00 pm	<b>B26</b>	<b>A Quantitative Analysis of 12 Cannabinoids from Cannabis Samples Using UPLC-UV-MS</b> Fiza Tajdin, BS*; Britni Skillman, PhD; J. Tyler Davidson, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B27</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B28</b>	<b>An Analysis of Fentanyl Analogs in Multi-Component Drug Mixtures Using Surface-Enhanced Raman Spectroscopy</b> Kristen Jerich, BSc*; Bruce McCord, PhD
11:30 am—1:00 pm	<b>B29</b>	<b>A Cannabis Flower Potency Analysis by Using Liquid Chromatography/Triple Quadrupole/Mass Spectrometry</b> Na Liu, PhD*; Ligu Song, PhD
11:30 am—1:00 pm	<b>B30</b>	<b>The Development of a Validation and Implementation Package for the Quantification of Several Drugs by LC/MS/MS</b> Meghan Appley, PhD*; Sarah Shuda, MS; Edward Sisco, PhD
11:30 am—1:00 pm	<b>B31</b>	<b>Drug Profiling in Marion County, Indiana, Using Advanced Statistical Methods and Chemometrics Based on Components Detected by Gas Chromatography/Mass Spectrometry</b> Natalie Holmes, BS*; Philip Brandyberry, MSFS; John Goodpaster, PhD
11:30 am—1:00 pm	<b>B32</b>	<b>Evaluating Extraction Techniques for Mushrooms in Chocolate to Avoid Potential 4-Acetoxy-N,N-Dimethyltryptamine Hydrolysis</b> Naria Ford-Thompson, MSFS*; Elizabeth Shields
11:30 am—1:00 pm	<b>B33</b>	<b>Investigating the Stability and Degradation of Psilocybin and Psilocin in Mushroom Gummies: Implications for Forensic Analysis</b> Alyssa Ricca, BS*; Marianne Staretz, PhD; Thomas Brettell, PhD; Mia Bercier, MSFS
11:30 am—1:00 pm	<b>B34</b>	<b>Microcrystalline Tests for the Detection of Novel Psychoactive Substances (NPS)</b> Grace Pavel*; Ruby Alley*; Kimiko Ferguson, PhD
11:30 am—1:00 pm	<b>B35</b>	<b>The Development and Validation of a Rapid Direct Analysis in Real Time-Triple Quadrupole/Mass Spectrometry (DART-QqQ/MS) Method for Screening Nitazene Analogs</b> Nicholas Khorozov, MS*; Alex Krotulski, PhD; Barry Logan, PhD; Joshua DeBord, PhD
11:30 am—1:00 pm	<b>B36</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B37</b>	<b>The Development of an Optimized Extraction Protocol for Cannabinoids From Cannabis Plant Material</b> Emma Fitzgibbons, MS*; Britni Skillman, PhD; J. Tyler Davidson, PhD

# CRIMINALISTICS

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- 11:30 am—1:00 pm **B38** **The Identification of Methyl-Substituted Fentanyl Analogs Using Optimized Weighting Within the Inverted Library Search Algorithm (ILSA)**  
Christany Liggins, BS\*; Alleigh Couch, BS; J. Tyler Davidson, PhD; Arun Moorthy, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **B39** **Under the Light: UV/Vis Spectrophotometry as a Tool for Characterizing Designer and Traditional Benzodiazepines in Varying Solvent Systems**  
Kailee Marchand, BS\*; Cailin Herl, MScFS; Geraldine Monjardez, PhD; Alaina Anderson, MS; James Miller, MA; Mona Colca, BA  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **B40** **Using Dry ATR/FTIR Spectroscopy to Identify 1,4-Butanediol in Alcoholic Beverages**  
Thomas Spudich, PhD\*; Ethan Nugen; Christina Hayes, MNS; Marissa Purfeerst, BS
- 11:30 am—1:00 pm **B41** **A Headspace Analysis of Reference Grade and Seized Xylazine, 4-ANPP, and Nitazenes**  
Sadie Olrogg, BS\*; Lauryn DeGreeff, PhD
- 11:30 am—1:00 pm **B42** **LC/MS and GC/MS Analyses of the Decomposition Products of Fentanyl Using Various Oxidative Processes**  
Mehdi Moini, PhD\*; Edward Bentil, PhD; Brian Eckenrode, PhD
- 11:30 am—1:00 pm **B43** **Nitazene Analog Identification Using a Combination of Liquid Chromatography/Mass Spectrometry (LC/MS) and Gas Chromatography/Mass Spectrometry (GC/MS)**  
Audrey Pless, BS\*; Oriana Ovide, MS; Kai Allen, BS  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **B44** **Optimizing a Portable-Capillary Liquid Chromatograph With Diode Array Detection for Illicit Drug Analysis**  
Lauren Deem, BS\*; Abigail Ladau, BS; Ira Lurie, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **B45** **The Validation of an LC-PDA Method for the Quantitative Analysis of Cannabinoids in Homemade and Commercial Gummies**  
Ya-Chih (Jessica) Cheng, PhD\*; Walter Wilson, PhD
- 11:30 am—1:00 pm **B46** **Addressing the Oxygen in the Room: A Novel Approach for the Identification of Nitazene Analogs by Oxygenated Species Using DART-MS**  
Emma Hardwick, BA\*; Alleigh Couch, BS; J. Tyler Davidson, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **B47** **Distinguishing Positional Isomers of Methylfentanyl**  
Jennifer Skuches, MS\*; Brianna Singh, BS\*
- 11:30 am—1:00 pm **B48** **Enhancing Canine Detection Through the International Commission on Detector Dogs (ICODD)**  
Kenneth Furton, PhD\*; Kelvin Frank, PhD
- 11:30 am—1:00 pm **B49** **Illicit Cannabis Cultivation in California: Illegal Pesticides, False Packaging, and Risks to Human Health**  
Vidia Gokool, PhD\*
- 11:30 am—1:00 pm **B50** **Quantifying Dosage Risk: Fentanyl Concentrations in Counterfeit Drugs From Border Seizures**  
Mia Borrelli, MSFS\*; Amanda Mohr, MS; Barry Logan, PhD; Thom Browne, MA

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11:30 am—1:00 pm	<b>B51</b>	<b>An Evaluation of Deactivations on Gas Chromatographic Stationary Phases for the Analysis of Seized Drugs of Abuse</b> Amanda Ridgon, BS*; Corby Hilliard; Jared Burkhart, BSc Jamie York, PhD
11:30 am—1:00 pm	<b>B52</b>	<b>What's in the Powder? Evaluating Fentanyl Test Strip Sensitivity to Common Household Items in Chemical Emergency Response Scenarios</b> Kate Mongold, MS*; Heather Barkholtz, PhD; Meshel Lange, MS; Mason Shields, BS
11:30 am—1:00 pm	<b>B53</b>	<b>The Impact of Environmental Contaminants on the Accuracy of Bacterial-Signature-Based Identification of Human Saliva Samples</b> Briley Peacher, BS*; Baneshwar Singh, PhD
11:30 am—1:00 pm	<b>B54</b>	<b>Investigating New Barcode Markers to Distinguish Kratom Varieties</b> Jasmine Sierra, BS*; Cesar Cantu Jr., PhD; Rachel Houston, PhD; Kari Graham, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B55</b>	<b>An Evaluation of OpiumPlex for Genetic Profiling of the Opium Poppy</b> Greta Hundtofte, BS*; Sara Willer, MS; Rachel Houston, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B56</b>	<b>Analyzing the Effects of Time and Temperature on SNP Markers in Fingernails to Indicate Asian and African American Descent</b> Heather Coyle, PhD; Kelly Murphy, BS*
11:30 am—1:00 pm	<b>B57</b>	<b>Sub-Regional Biogeographic Inference for East Asian Populations Using 165 AISNPs and Machine Learning</b> Sohee Cho, PhD*; Sojung Lim, MD; Soong Deok Lee, MD, PhD
11:30 am—1:00 pm	<b>B58</b>	<b>The Genetic Evidence Trail: Investigating MicroRNA Markers and Their Connection to Body Mass Index</b> Daja Bonilla, BSFS*; J. Paul Brooks, PhD; Sarah Seashols-Williams, PhD; Tracey Dawson Green, PhD; Xiaomeng (Simone) Yang, MS
11:30 am—1:00 pm	<b>B59</b>	<b>That's Some Pig: Protocol Optimization for the Analysis of DNA in Unpulverized Cremated Remains</b> Kendall Kroha, MS*: Stephanie Gladysck, PhD; Austin Wickham, MS
11:30 am—1:00 pm	<b>B60</b>	<b>Studying Human Decomposition Under Dry, Hot Desert Conditions: An Environmental Simulation Experiment</b> Ashley Kaufman, BS*; Sheree Hughes, PhD; Mayra Eduardoff, PhD
11:30 am—1:00 pm	<b>B61</b>	<b>The Umbilical Cord as a Novel DNA Sample for Comparison to Unidentified Human Remains</b> Adelee Conner, MFS*; Cory Lawton, MFS; David Orbin, MFS; Ashley Platt, MS; Stephanie Storino, MPS
11:30 am—1:00 pm	<b>B62</b>	<b>Infrared Insights: Using FTIR Spectroscopy to Predict DNA Viability in Burnt Bone Samples</b> Emily Jasek, BS*; Ahana Chatterjee, MS; Amy Mundorff, PhD; Geraldine Monjardez, PhD; Mayra Eduardoff, PhD; Armando Anzellini, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B63</b>	<b>WITHDRAWN</b>

# CRIMINALISTICS

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## Thursday—Session I

### Trace DNA and Activity-Level Evaluation

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Moderator: Harmeet Kaur, PhD

Co-Moderator: Amber Smith, MSFS

- 8:00 am—8:15 am     **B64**     **The Fundamental Principles of Activity-Level Evaluation and Their Application to a DNA Case**  
Simone Gittelsohn, PhD\*; Tim Kalafut, PhD; James Curran, PhD; John Buckleton, DSc
- 8:15 am—8:30 am     **B65**     **Activity-Level Evaluations of Realistic Crime Scene Scenarios**  
Ashley Hall, PhD\*; Ray Wickenheiser, DPS\*
- 8:30 am—8:45 am     **B66**     **An Enhanced Recovery Method to Improve DNA Profiling Success From Handled Bullet Casings**  
Andria Morgan-Capers, BS\*; Susan Greenspoon, PhD; Christopher Ehrhardt, PhD;  
Stephanie Walcott, MScFS  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 8:45 am—9:00 am     **B67**     **The SCAnDi Project: Single-Cell Analysis for DNA Identification**  
Iain Macaulay, PhD; Katherine Brown, PhD; George Zouganelis, PhD\*; Lorna Dawson, PhD;  
Ardhenu Beheraa, PhD; Michael Chen, PhD; Nick Dawnay, PhD
- 9:00 am—9:15 am     **B68**     **Continued Optimization of a High-Resolution Melt-Based Mixture Screening Tool and Evaluation as a Contributor Identification Tool**  
Kiersten Fultz, BS\*; Tracey Dawson Green, PhD; Chastyn Smith, PhD
- 9:15 am—9:30 am     **BREAK**

### The Annie Le Homicide

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Moderator: Lynne Burley, MS

Co-Moderator: Dragan Primorac, MD, PhD

- 9:30 am—10:15 am     **B69**     **When the DNA Doesn't Match the Timeline: The Annie Le Homicide and the Forensic Challenges of Unexpected DNA in Unexpected Places**  
Eric Carita, MS\*; Peter Valentin, PhD\*
- 10:15 am—10:30 am     **BREAK**

### Probabilistic Genotyping

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Moderator: Sylvia Etim

Co-Moderator: Catherine Navetta, BS

- 10:30 am—10:45 am     **B70**     **Lessons Learned in Implementing and Validating Probabilistic Genotyping**  
R. Austin Hicklin, PhD\*; Nicole Richetelli, PhD\*
- 10:45 am—11:00 am     **B71**     **Turning Unsearchable Mixtures Into Actionable Intelligence for Reliable DNA Evidence**  
Edward Schikel, MBA\*; Terrance Lewis, MA; Mark Perlin, MD, PhD\*; Matthew Legler, BS
- 11:00 am—11:15 am     **B72**     **Understanding and Reducing Variability in Complex DNA Mixture Interpretation: The Centre of Forensic Sciences Strategic Mixture Review**  
Kelly Bowie, MSc; Tanis Gornall, MS; Michael Bissonnette, MS\*; Sonja Stadler, PhD;  
Melanie Richard, MSc

# CRIMINALISTICS

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11:15 am—11:30 am     **B73**     **Why Not Ys? Probabilistic Interpretation of Y-STRs**  
Jo-Anne Bright, PhD\*; Emma Marie, MSc; John Buckleton, DSc; Paul Stafford-Allen, BSc;  
Hannah Kelly, PhD

11:30 am—1:00 pm     **BREAK**

## The Past Year and How it Will Shape the Future

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Moderator: Hannah Eisenmenger, MS

Co-Moderator: Kaylene Bishop, MSc

1:00 pm—1:15 pm     **B74**     **A New Resource for Reporting DNA Limitations From the Human Forensic Biology Subcommittee of the OSAC**  
Jarrah Kennedy, MS\*; Michelle Madrid, MS\*

1:15 pm—1:45 pm     **B75**     **Highlights and Lessons From the 2025 INTERPOL DNA Review**  
John Butler, PhD\*

1:45 pm—2:00 pm     **B76**     **Standards Development Activities in Human Forensic Biology**  
Charlotte Word, PhD\*; Jarrah Kennedy, MS\*; Jillian Conte, PhD

2:00 pm—2:30 pm     **B77**     **How Increasing Transparency in Casefile Documentation Strengthened a Laboratory's Quality Management System**  
Britton Morin, MSFS\*; Jan Pappas, MS\*

2:30 pm—2:45 pm     **B78**     **Restoring Scientific Rigor in Forensic Science in South Africa**  
Antonel Olckers, PhD\*

2:45 pm—3:00 pm     **BREAK**

## Innovations in Sexual Assault Investigations

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Moderator: Kelly Knight, MS

Co-Moderator: Kyle Konkol, BS

3:00 pm—3:15 pm     **B79**     **Single-Cell Evaluations About How Many and Who Donated to the Sperm**  
Catherine Grgicak, PhD\*; Anu Khandelwal, MS; Desmond Lun, PhD; Qhawe Bhembe, MS

3:15 pm—3:30 pm     **B80**     **Catch a Sperm! The Integration of STK Sperm Tracker and Immunochromatographic Tests for Simultaneous Detection of Semen and Saliva in Sexual Assault Cases**  
Mayaas Hassan, BA; Lucia Julvez Martinez, BA; Sara C. Zapico, PhD\*; Gabriela Roca, MD, PhD;  
Polina Khalizov; Jennifer Santos, BS

3:30 pm—3:45 pm     **B81**     **The Development of a High-Throughput Automated Method to Process Sexual Assault Kits With Increased Male DNA Recovery Utilizing an Innovative Technology**  
Yogesh Prasad, PhD\*; Hiromi Brown, PhD; Sudhir Sinha, PhD; Randy Nagy, BSc;  
Sid Sinha, MBA; Anusha Prasad

3:45 pm—4:00 pm     **B82**     **A Proteomic Analysis of DNA Extraction and Isolation Waste: Having Your DNA Cake and Proteome Too!**  
Glendon Parker, PhD\*; Daniella Corene Luistro, MSFS; Kyle Burk, MS; Allysa Tewksbury, MSFS;  
Phillip Danielson, PhD; Christian Westering, PhD

4:00 pm—4:30 pm     **B83**     **Harnessing New Enzymes to Improve Differential Extraction**  
Robin Cotton, PhD\*

4:30 pm—4:45 pm     **BREAK**

# CRIMINALISTICS

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## Non-Human DNA

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Moderator: Sarah Seashols, PhD

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|-----------------|------------|---|
| 4:45 pm—5:00 pm | <b>B84</b> | <b>Optimizing a DNA-Based Workflow for Distinguishing Marijuana From Hemp: An Alternative to Traditional GC/MS Analysis</b><br>Rory Conn, BS*; Ya-Chih (Jessica Cheng, PhD; Tanya Ryzi, BS<br>(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 5:00 pm—5:15 pm | <b>B85</b> | <b>Tracing Time Through Touch: Fingerprints and Microbes as Temporal Tools to Date Evidence</b><br>Josep De Alcaraz-Fossoul, PhD*   |
| 5:15 pm—5:30 pm | <b>B86</b> | <b>Utilizing Digital PCR to Track Bacterial Transfer Following Sexual Assault</b><br>Dipanwita Raha, BSc*; Andrea Ramirez-Torres, BS; Bruce McCord, PhD; George Duncan, PhD;<br>Mirna Ghemrawi, PhD   |
| 5:30 pm—5:45 pm | <b>B87</b> | <b>WITHDRAWN</b>  |

## Thursday—Session II

### Let's Get this Controlled Substances Party Started, Bring your own Beads

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Moderator: Brooke Kammrath, PhD

Co-Moderator: Marianne Staretz, PhD

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|------------------|------------|--|
| 8:00 am—8:15 am  | <b>B88</b> | <b>The 2026 Update From the Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG)</b><br>Jaclyn Iera, PhD*   |
| 8:15 am—8:30 am  | <b>B89</b> | <b>Seized Drug Trends in the Northeastern United States: A Decade of Macro and Micro Trends</b><br>Tara Rossy, BS*   |
| 8:30 am—8:45 am  | <b>B90</b> | <b>ATR/FTIR and Raman Hyperspectral Imaging With Chemometric Modeling for the Detection of Xylazine in Illicit Drug Mixtures</b><br>Xuyang He, PhD*  |
| 8:45 am—9:00 am  | <b>B91</b> | <b>Multi-Drug Quantification by LC/MS/MS: Overcoming Enhancement and Suppression</b><br>Joshua DeBord, PhD*; Max Denn, MS; Barry Logan, PhD; Alex Krotulski, PhD   |
| 9:00 am—9:15 am  | <b>B92</b> | <b>A Method Development for Ultraviolet Absorbance and Fluorescence Detection of Psilocybin and Psilocin Following Liquid Chromatographic Separation</b><br>George Sakellariou, BS*; Walter Wilson, PhD; Ya-Chih (Jessica) Cheng, PhD<br>(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 9:15 am—9:30 am  | <b>B93</b> | <b>Distinguishing Between the Tandem Mass Spectra of Positional Fentanyl Analogs Using the Expert Algorithm for Substance Identification</b><br>Alexandra Adeoye, MS*; Sandra Rodriguez-Cruz, PhD; Glen Jackson, PhD<br>(FSF Emerging Forensic Scientist Award Oral Presentation)                  |
| 9:30 am—9:45 am  | <b>B94</b> | <b>The Optimization and Validation of a Method for Rapid Quantitation of Fentanyl in Seized-Drug Samples Using Direct Analysis in Real Time-Mass Spectrometry (DART-MS)</b><br>Sandra Rodriguez-Cruz, PhD*   |
| 9:45 am—10:00 am |            | <b>BREAK</b>   |

# CRIMINALISTICS

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## Criminalistics Gone Wild - AGAIN?!

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Moderator: Kyle Konkol, BS

Co-Moderator: Patrick Buzzini, PhD

Co-Moderator: Michelle Miranda, PhD

- 10:00 am—10:30 am     **B95**     **It Could Happen to You: A Forensic Scientist in the Crosshairs—Epilog**  
Laskowski Gregory, MPA\*
- 10:30 am—11:30 am     **B96**     **Criminalistics Gone Wild—Does Technology Kill the Truth?**  
Patrick Buzzini, PhD\*; Anna Duggar, PhD\*; Claude Roux, PhD\*; Michelle Miranda, PhD\*;  
Sheila Willis, DSc\*; Mark Profili, MFS\*
- 11:30 am—1:00 pm                     **BREAK**

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## The Smallest Clues Ignite the Biggest Presentations

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Moderator: Andra Lewis, PhD

Co-Moderator: Edward Sisco, PhD

- 1:00 pm—1:15 pm     **B97**     **Standards Development Activities in Trace Materials**  
Sandra Koch, PhD\*; Celeste Grover, MSFS; Jennifer Remy, MS
- 1:15 pm—1:45 pm     **B98**     **The Basics of Light Microscopy: Getting the Most Out of Your Microscope**  
James Schrode, BS\*
- 1:45 pm—2:00 pm     **B99**     **Assessing the Utility of Elemental Profiling to Differentiate the Silt-Sized Fraction of Soils Collected at Varying Spatial Scales**  
Jack Hietpas, PhD\*; Peixuan Du, BS; Libby Stern, PhD; Kelly Meiklejohn, PhD  
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 2:00 pm—2:15 pm     **B100**     **An Investigation of the Effects of Detonation on the Analysis and Comparison of Electrical Tape Backings**  
Swathi Murali, MS\*; Patrick Buzzini, PhD
- 2:15 pm—2:30 pm     **B101**     **The Effects of Adhesives on the Subsequent Fourier Transform Infrared (FTIR) Analysis of Paint and Fibers**  
Ashlyn Bartley, MSFS\*; Ted Schwartz, MS
- 2:30 pm—2:45 pm     **B102**     **Using Raman Microscopy to Distinguish Dyed Textile Fibers**  
Alexis Wilcox, MS\*; Lydia Burnett, MASc; Joseph Donack, PhD
- 2:45 pm—3:00 pm     **B103**     **A Deep Transfer Learning Framework for the Detection of Ignitable Liquid Residues in Burned Substrates Across Inter-Laboratory GC/MS Systems**  
Ting-Yu Huang, PhD\*; Jorn Yu, PhD
- 3:00 pm—3:15 pm     **B104**     **A Refinement of the Expert Algorithm for Substance Identification (EASI) to Predict ASTM E1618-19 Ignitable Liquid Classes From Gas Chromatography/Mass Spectrometry Data of Ignitable Liquid Residues**  
Hannah McMillen, MS\*; Glen Jackson, PhD  
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 3:15 pm—3:30 pm     **B105**     **An Evaluation of Kinetic and Thermodynamic Approaches to Predict Evaporation of Gasoline**  
Jenna Leppek, BS\*; Hannah LaVoie, BS; Victoria McGuffin, PhD; Ruth Waddell Smith, PhD

# CRIMINALISTICS

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3:30 pm—3:45 pm      **B106**      **The Application of a Conditional Source Estimation Method Using Competitive Similarity to Aluminum Powder Sources From Detonated Improvised Explosives Device**  
Janean Hanka, MS\*; Jack Hietpas, PhD; Danica Ommen, PhD; JoAnn Buscaglia, PhD;  
Christopher Saunders, PhD; Donald Gantz, PhD

3:45 pm—4:00 pm      **BREAK**

## Prints and Pistols

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Moderator: Elizabeth Gardner, PhD

Co-Moderator: Hamidreza Sharifan, PhD

4:00 pm—4:30 pm      **B107**      **Evaluating Reporting Practices in Fingerprint Comparisons Using Information Theory: Five Response Categories Are Better Than Three**  
Thomas Busey, PhD\*; Jeffrey Starns, PhD; Meredith Coon, MFS; Nada Aggadi, BA;  
Andrew Cohen, PhD

4:30 pm—4:45 pm      **B108**      **Forensic Fingerprint Detection Through Adhesive Tapes Using Optical Coherence Tomography**  
Jiayun Liu, PhD\*; Eddie Tan; Yan Wen Crystal Tan, BSc; Chin Chin Lim; Chiew Yung Yang, MFSA

4:45 pm—5:00 pm      **B109**      **Standards Development Activities Related to Friction Ridge Examination**  
Steven Johnson, BS\*; Heidi Eldridge, PhD

5:00 pm—5:15 pm      **B110**      **Advancing the Understanding of 3D Imaging for Firearms Identification**  
Melissa Nally, BA\*; Heike Hofmann, PhD\*; Alicia Carriquiry, PhD; Jeffrey Salyards, PhD;  
Donna Eudaley, BS\*; Preshious Rearden, PhD

5:15 pm—5:30 pm      **B111**      **Accuracy, Efficacy, and Reproducibility of Muzzle-to-Target Distance Determination Using Gunshot Residue**  
R. Austin Hicklin, PhD\*; Nicole Richetelli, PhD\*

5:30 pm—5:45 pm      **B112**      **WITHDRAWN**

5:30 pm—5:45 pm      **B113**      **The AFTE Procedural Support Committee**  
Jennifer Floyd, BS\*

5:45 pm—6:00 pm      **B114**      **OSAC/ASB Standards Development Activities in Firearm and Toolmark Examination**  
Rebecca LoBalbo, MPA; Jennifer Floyd, BS\*

## Friday

### Poster Session

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11:30 am – 1:00 pm      **B115**      **Investigation of the Secondary Transfer of GSR From a Shooter to Common Inanimate Objects**  
Brittany Claassen, MS\*; Charley Cross, BS; Kim Kunkler, PhD

11:30 am – 1:00 pm      **B116**      **An Evaluation of Barrel Wear Caused by Polymer-Coated Ammunition**  
Eden Amin, BS/BA\*; Eric Law, PhD; James Creecy, PhD; Stephanie Luehr, MS

11:30 am – 1:00 pm      **B117**      **A Quantitative Analysis of Full and Partial Shotgun Pellet Patterns for Distance Determination**  
Jamison Trimmer, BS\*; Stephanie Walcott, MScFS

# CRIMINALISTICS

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- 11:30 am – 1:00 pm    **B118**    **A Handcrafted Pen Gun Suicide: A Case Report**  
Quentin Rébillard, MD\*; Christian Brocard, PhD; Laurent Martrille, MD, PhD;  
Emmanuel Margueritte, MD; Clarisse Dubois, MD; Elise Arbefeuille, MD
- 11:30 am – 1:00 pm    **B119**    **A Comparison of Solid Phase Microextraction and Purge and Trap Methods for Measuring VOCs Emanating From Li-Ion Batteries and Electronic Media**  
Samuel DeNight, BS\*; Edward Bentil, PhD; Brian Eckenrode, PhD
- 11:30 am – 1:00 pm    **B120**    **Crystals Under the Lens: A Microscopical and Micro-Raman Analysis of Inorganic Oxidizers in Pyrotechnic-Based IEDs**  
Carissa Burton, BS\*; Jared Estevanes, PhD; Patrick Buzzini, PhD; Geraldine Monjardez, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm    **B121**    **Evaluating Line Illumination Sampling of a Hand-Held Raman Spectrometer for Detecting Hydraulic Fluid Contamination in Jet Fuel**  
Megan Linson, BS\*; Javier Hodges, BS; Jorn Yu, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm    **B122**    **Optimizing Explosives Detection: How Burial Medium and Moisture Influence Ammonium Nitrate Vapor Transport**  
Joel Fuentes Carrasco, BS\*; Emma Calabrese, PhD; Lauryn DeGreeff, PhD; Lindsay Waldrop, PhD
- 11:30 am—1:00 pm    **B123**    **Rapid Spectrophotometric Identification of Peroxide-Based Explosives Using a Modified Iodometric Method**  
Alana Connor\*; Marianne Staretz, PhD
- 11:30 am—1:00 pm    **B124**    **The Application of Deep Learning in Source Attribution of Ignitable Liquid Residues in Fire Debris for Forensic Fire Investigation**  
Ting-Yu Huang, PhD\*; Jorn Yu, PhD
- 11:30 am—1:00 pm    **B125**    **The Rapid Classification of Diesel and Gasoline by Raman Spectroscopy and Machine Learning in Support of Fire Investigations**  
Jung Tsai, BSc\*; Jorn Yu, PhD
- 11:30 am—1:00 pm    **B126**    **TNT Explosive Residue Detection: An Investigation of Swabbing Substrates and Solvents Across Witness Materials Using GC-MS**  
Krystal VanHorn, BS\*; Nicholas Jernigan, MS; Geraldine Monjardez, PhD; J. Tyler Davidson, PhD; Jared Estevanes, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm    **B127**    **Two Techniques, One Goal: An Analysis of Intact Explosives Using Confocal Raman Microscopy and Direct Analysis in Real Time-High Resolution Mass Spectrometry (DART-HRMS)**  
Shannon Keyser, BS\*; Alleigh Couch, BS; Geraldine Monjardez, PhD; J. Tyler Davidson, PhD; Jared Estevanes, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm    **B128**    **Using Maggots as Passive Samplers for Explosive Odor Volatiles in Soil-Buried Scenarios**  
Laney Kimble, BS\*; Joshua Smith, PhD; Paola Tiedemann, PhD
- 11:30 am—1:00 pm    **B129**    **Augmenting Dogs and Sensors for Improved Detection of Explosives and Drugs**  
Stephen Isbel, MS\*; Patrick Roman, PhD; Kenneth Furton, PhD; Abuzar Kabir, PhD; Kelvin Frank, PhD; Michaela Clarke, MS

# CRIMINALISTICS

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11:30 am—1:00 pm	<b>B130</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B131</b>	<b>Beyond the Surface of Architectural Paint: A Comparative Analysis Using DART-MS and Spectroscopic Techniques</b> Geraldine Monjardez, PhD*; John Laetsch, MS; Patrick Buzzini, PhD; J. Tyler Davidson, PhD; Alleigh Couch, BS; Morgan Carpenter, BS
11:30 am—1:00 pm	<b>B132</b>	<b>Developing a Scale to Categorize the Sheddability of Fibers From Fabrics</b> Flavia Bucci Casari degli Atti di Sassoferrato, MS*; Ted Schwartz, MS
11:30 am—1:00 pm	<b>B133</b>	<b>Evaluating the Reproducibility and Interpretive Value of Micro-Spectrophotometry in the Forensic Differentiation of Blue Cotton and Polyester Fibers</b> Britney Hitt, MSc*; Deborah Moi, BSc; Larry Tang, PhD; Slun Boopasiri, MS; Andres Campiglia, PhD; Maria Aldaba
11:30 am—1:00 pm	<b>B134</b>	<b>A Multi-Analytical Characterization and Discrimination of Electrical Tapes Using GC/MS, FTIR, and Evaluation of Physical and Optical Properties</b> Rayven Cobb, BS*
11:30 am—1:00 pm	<b>B135</b>	<b>On the Characterization and Differentiation of Clearcoats in Automotive Paint Using UV-Visible Microspectrophotometry, FTIR Spectroscopy, and Raman Spectroscopy</b> Swathi Murali, MS*; Morgan Carpenter, BS; Patrick Buzzini, PhD
11:30 am—1:00 pm	<b>B136</b>	<b>Thermal Alteration of Pollen Grains: Implications for Forensic Analysis</b> Jessica Valerio*; Anna Duggar, PhD
11:30 am—1:00 pm	<b>B137</b>	<b>DyeSPY: Establishing the First Forensic SERS Reference for Hair Dye Colorant Evidence</b> Aidan Holman, BSc*; Avery Maalouf; Dmitry Kurouski, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B138</b>	<b>The Persistence of Soil Traces on Footwear: Interactions Between Organic Content and Contact Surface</b> Ashley Buchman, BS*; Jennifer Bonetti, PhD; Lawrence Quarino, PhD; Andra Lewis, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B139</b>	<b>A Comparison and Characterization of Nitrocellulose, Gel, and Dip Powder Nail Products as Forensic Trace Evidence</b> Madison Lindung, MSFS*; Mallory Higgins; Tatiana Trejos, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>B140</b>	<b>Adhesive Tapes as Sorbent Supports: The Innovation, Challenges, and Potential of Activated Charcoal-Coated Tapes for Fire Debris Analysis</b> Grace Boyer; Alyssa Eddington, BS; Cynthia Tran, PhD*; Derek Collins, BS
11:30 am—1:00 pm	<b>B141</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>B142</b>	<b>Identifying Fiber Sources From Absorbance Spectral Data Using Statistics and Machine Learning</b> Slun Boopasiri, MS*; Larry Tang, PhD*; Andres Campiglia, PhD; Britney Hitt, MSc; Deborah Moi, BSc; Maria Aldaba

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- 11:30 am—1:00 pm     **B143**     **Exploring the Persistence and Transfer of Trace DNA Samples Recovered From Doorknobs in Burglary Scenarios**  
James Seltzer, BS\*; Mechthild Prinz, PhD; Georgina Meakin, PhD; Fabio Oldoni, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B144**     **Investigating the Dynamics of Trace DNA in a Burglary Scenario**  
Hailee Weiss, BS\*; Edward Schikel, MBA; Megan Foley, PhD; Fabio Oldoni, PhD;  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B145**     **WITHDRAWN**
- 11:30 am—1:00 pm     **B146**     **Time Since Deposition Signatures for Trace Biological Samples Using Cellular Autofluorescence**  
Gabrielle Wolfe, BS\*; Christopher Ehrhardt, PhD
- 11:30 am—1:00 pm     **B147**     **An Investigation of DNA Contribution From Trace Samples Recovered From a Screwdriver Used as a Murder Weapon**  
Lauren Kennedy, BS\*; Mechthild Prinz, PhD; Tacha Hicks, PhD; Fabio Oldoni, PhD
- 11:30 am—1:00 pm     **B148**     **Indirect DNA Transfer to Duct Tape Rolls and Fidget Blasters Stored in Cars**  
Rachel Chan, MS; Yuching Chung, MS; Mechthild Prinz, PhD\*
- 11:30 am—1:00 pm     **B149**     **Evaluating the Impact of Surface Type and Swab Moistening Conditions on Trace Collection Efficiency**  
Anna Franzoni, MSc\*; Michele Rosso, PhD
- 11:30 am—1:00 pm     **B150**     **The Evaluation of a Mini-Vacuum Device for the Collection for Low-Level Samples**  
Kayli Carrillo, BS\*; Rachel Houston, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B151**     **The Influence of Primary Contact Deoxyribonucleic Acid (DNA) on the Detection of Passively Transferred DNA in Forensic Casework Environments**  
Lauren Watts, BS\*; Kimberly Freeman, MFS; Susan Greenspoon, PhD; Christopher Ehrhardt, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B152**     **Exploring the Persistence and Transfer of DNA Under Fingernails in Mock Physical Assaults**  
Jean Poulson, BS\*; Sarah Gino, MD; Daniele Podini, PhD; Anna Franzoni, MSc;  
Fabio Oldoni, PhD;  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm     **B153**     **WITHDRAWN**
- 11:30 am—1:00 pm     **B154**     **Application of geoFOR at the Anthropology Research Facility (ARF)**  
Betzaida Maldonado, MSFS\*; Christopher Gignoux, PhD
- 11:30 am—1:00 pm     **B155**     **Enhancing Forensic DNA Interpretation: A Combined STR-Microhaplotype Framework for EuroForMix**  
Natalie Holder, BS\*; Abigail McDougall, BS\*; Daniele Podini, PhD; Zack Beyerl, MFS

# CRIMINALISTICS

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## Friday—Session I

### Hairs, Bones, and Missing Persons

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Moderator: Nasir Butt, PhD

Co-Moderator: Megan Foley, MSFS, PhD

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|-------------------|-------------|--|
| 8:00 am – 8:15 am | <b>B156</b> | <b>Optimized Silica Column-Based Extraction for the Capture of Highly Degraded Nuclear DNA From Rootless Hairs</b><br>Mia Gale, BS*; Vinalon Mones, MFS; Daniele Podini, PhD; Helene Douglas, BSc; Elaine Lewis, PhD<br><i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i> |
| 8:15 am—8:30 am   | <b>B157</b> | <b>The Extraction and Genotyping of Nuclear DNA From Rootless Hair Shafts Using Capture Hybridization</b><br>Daniele Podini, PhD*; Elaine Lewis, PhD; Helene Douglas, BSc; Vinalon Mones, MFS<br>Mia Gale, BS  |
| 8:30 am—8:45 am   | <b>B158</b> | <b>WITHDRAWN</b>   |
| 8:45 am—9:00 am   | <b>B159</b> | <b>Why Mutation Models Matter: Enhancing Accuracy in Relationship Testing</b><br>Sanne Aalbers, PhD*; Katherine Gettings, PhD  |
| 9:00 am—9:15 am   | <b>B160</b> | <b>WITHDRAWN</b>   |
|                   | <b>B161</b> | <b>WITHDRAWN</b>   |
| 9:15 am—9:45 am   |             | <b>BREAK</b>   |

### Rapid DNA

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Moderator: Kristen Thoms, MSFS

Co-Moderator: Pamela Marshall, PhD

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|-------------------|-------------|---|
| 9:45 am—10:00 am  | <b>B162</b> | <b>A Computer Interpretation of RapidHIT Mixtures for DNA Match Information</b><br>Paul Berry, MS*; Baron Andrus, MS; Mark Perlin, MD, PhD*; William Allan, MS  |
| 10:00 am—10:15 am | <b>B163</b> | <b>Rapid DNA Identification of Human Remains in Diverse Conditions: What Works, What Doesn't</b><br>Kayli Carrillo, BS*; Sheree Hughes, PhD<br><i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>   |
| 10:15 am—10:30 am | <b>B164</b> | <b>An Evaluation of Compromised Teeth Using an Optimized Sample Preparation Method and the Applied Biosystems RapidHIT ID System</b><br>Tracey Dawson Green, PhD*; Raygan Harrington, MScFS; Yen Dang, MScFS; Ali Mojarad, DDS; Janina Golob Deeb, DDS; Morgan Eaton, MScFS |
| 10:30 am—10:45 am |             | <b>BREAK</b>  |

# CRIMINALISTICS

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## Lessons From Exonerations

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Moderator: Amanda Mendoza, MS

Co-Moderator: Khalid Lodhi, DSc

10:45 am—11:30 am     **B165**     **Forensic Science Bias Against the Wrongfully Accused: Sperm Fractions, Defense Hypotheses, Screening Tests, and the Absence of Evidence—Lessons From Exonerations**  
Greg Hampikian, PhD\*

11:30 am—1:00 pm                     **BREAK**

## Forensic Investigative Genetic Genealogy

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Moderator: Season Seferyn, MSFS

Co-Moderator: Fabio Oldoni, PhD

1:00 pm—1:15 pm     **B166**     **The Current Landscape of Forensic Genetic Genealogy Implementation, Understanding, and Opinions in the United States**  
Julia Otto\*; Melanie Armstrong, BA; Tynan Peterson, MA; Megan Foley, PhD

1:15 pm—1:30 pm     **B167**     **How Should We Report Genetic Matches Following an Investigative Genetic Genealogy Search?**  
Ferial Ouerghi, BS\*; Michael Edge, PhD; Dan Krane, PhD

1:30 pm—2:15 pm     **B168**     **When Science Speaks for the Dead: A Multi-Collaboration for Human Remains Identification**  
Lisa Mertz, MS\*; Karen Ross, JD\*

2:15 pm—2:30 pm                     **BREAK**

## Massively Parallel Sequencing

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Moderator: Christina Sorensen

Co-Moderator: Nidhi Subhashini, PhD

2:30 pm—2:50 pm     **B169**     **Solving Complex DNA Mixtures With Next Generation Sequencing**  
Kari Danser, MS\*; William Allan, MS; Mark Perlin, MD, PhD\*

2:50 pm—3:10 pm     **B170**     **The Developmental Validation of Software for Deconvolution of Mixed mtDNA Samples**  
Brian Young, PhD\*; Tom Faris, BSc

3:10 pm—3:30 pm     **B171**     **The Development and Evaluation of a Phase Analysis Pathway for mtDNA Mixture Deconvolution**  
Zack Beyerl, MFS\*; Robert Lagacé, BA; Daniele Podini, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

3:30 pm—3:50 pm     **B172**     **An Evaluation of a qPCR-Based Normalization Strategy to Improve Sample-to-Sample Read Depth Balance in STR Libraries Generated Using the IDseek CombiSTR Plus Reverse Complement PCR Technology**  
Eleanor Starkey, BS\*; Coral Smith, MS; Jill van Wolferen, MSc; Joop Theelen, BASc; Mirna Ghemrawi, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

3:50 pm—4:10 pm     **B173**     **A Forensic Quantification Kit for Human and Bacterial DNA Using Nanoplate Digital Polymerase Chain Reaction**  
Sylvia Etim, MS\*; Bruce McCord, PhD  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*

# CRIMINALISTICS

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4:10 pm—4:30 pm	<b>B174</b>	<b>An Evaluation of the NexGenID Software for Complex Mixture Deconvolution Using Microhaplotypes</b> Lauren Borchert, BS*; Sarah Cavanaugh, MSFS; Daniele Podini, PhD; Andrew Feldman, PhD; Emily Kim, BS; Jeffrey Lin, MS
4:30 pm—4:50 pm	<b>B175</b>	<b>Linkage Patterns of Forensically Relevant Identity SNPs and Autosomal STRs Commonly Multiplexed in Sequencing Assays</b> Isabella George, MFS*; Megan Foley, PhD; Daniele Podini, PhD; Jamie Belrose, PhD
4:50 pm—5:10 pm	<b>B176</b>	<b>The Identification and Optimization of MicroRNA Biomarkers for Predicting Body Weight and Muscularity in Forensic Samples</b> Xiaomeng (Simone) Yang, MS*; Daja Bonilla, BSFS; Sarah Seashols-Williams, PhD; Paul Brooks, PhD; Kimberly Lettner, MFS <i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>
5:10 pm—5:30 pm	<b>B177</b>	<b>Next-Gen Solutions: Advancing the Detection of Degraded DNA in Forensics</b> Emily Quartemont, BS*; Kristen Naughton, BS; Heather Sarik, MS

## ***Friday—Session II***

### **The Fungicide Did It**

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Moderator: James Cizdziel, PhD

Co-Moderator: Geraldine Monjardez, PhD

8:00 am—8:15 am	<b>B178</b>	<b>WITHDRAWN</b>
8:15 am—8:30 am	<b>B179</b>	<b>Quantifying the Similarity of Chemical Spectra</b> Hana Lee, PhD; Alicia Carriquiry, PhD*
8:30 am—8:45 am	<b>B180</b>	<b>Validation in Forensic Science: Guiding Principles for the Collection and Use of Validation Data</b> Henry Swofford, PhD*
8:45 am—9:00 am	<b>B181</b>	<b>WITHDRAWN</b>
9:00 am—9:15 am	<b>B182</b>	<b>A Bug's Life: A Soft Ionization Mass Spectrometric Approach for the Species Identification of Unknown Entomological Evidence for Postmortem Interval Determination</b> Alexa Figueroa, BS*; Robert Cody, PhD; Rabi Musah, PhD; Jennifer Rosati, PhD
9:15 am—9:30 am	<b>B183</b>	<b>The Detection of Oral Fluid Stains on Fabric Via Solution Extraction Combined With Deep Ultraviolet Raman Spectroscopy</b> Igor Lednev, PhD*; Mohamed Amin, PhD; Entesar Al-Hetlani, PhD
9:30 am—9:50 am	<b>B184</b>	<b>The Fungicide Did It: False Negatives and Decreased Sensitivity of Heme Tests on a Leather Substrate</b> Lily Manzi, BA; Allyn Schoeffler, PhD; Anna Duggar, PhD*
9:50 am—10:10 am		<b>BREAK</b>

# CRIMINALISTICS

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## A Green Groundhog in Virtual Reality

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Moderator: A. Bakarr Kanu, PhD, MRSC

Co-Moderator: Tiffany Rodriguez, MS

- 10:10 am—10:30 am     **B185**     **Moving Toward a More Sustainability Forensic Science**  
Thomas Brettell, PhD\*
- 10:30 am—11:00 am     **B186**     **The Three Stages of Standards Acceptance: A Groundhog Day's Guide to Implementation**  
Vincent Desiderio, MS\*; Allison Getz, MS\*
- 11:00 am—11:30 am     **B187**     **Developing an End-to-End Workflow to Perform Crime Scene Investigation and Training in Virtual Reality**  
Vincenzo Rinaldi, MSc\*; Niamh Nic Daeid, PhD\*
- 11:30 am—1:00 pm     **BREAK**

## This Session Is Dope!

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Moderator: Mikaela Romanelli, MS

Co-Moderator: Glen Jackson, PhD

- 1:00 pm—1:15 pm     **B188**     **That's Dope: A Novel Approach for the Differentiation of  $\Delta^9$ -THC Isomers in Cannabis**  
Alleigh Couch, BS\*; Emma Hardwick, BA; J. Tyler Davidson, PhD; Christopher Zall, PhD;  
Christany Liggins, BS  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 1:15 pm—1:45 pm     **B189**     **Forensic Alcohol Testing of Jello Shots Given to Children**  
Laura Labay, PhD\*; Lee Blum, PhD; Michael Lamb, MS; Justine Drake, MSFS;  
Nina McCullough, BA
- 1:45 pm—2:00 pm     **B190**     **Recent Trends in Fentanyl Adulteration: Results From the Near Real-Time Drug Checking RaDAR Program**  
Edward Sisco, PhD\*
- 2:00 pm—2:15 pm     **B191**     **Thirdhand Exposure to Drugs From Residual Contamination: An analysis of Seized Contaminated Vehicles and Experimental Tests From Simulated Smoking of Methamphetamine in an Uncontaminated Vehicle**  
Stewart Walker, PhD\*; Gemma Kerry, BSc; Jackie Wright, PhD; Kirstin Ross, PhD
- 2:15 pm—2:30 pm     **B192**     **The Detection and Quantification of Synthetic Cannabinoids and Other Novel Psychoactive Substances in Jail Contraband**  
Max Denn, MS\*; Nicholas Khorozov, MS; Barry Logan, PhD; Alex Krotulski, PhD;  
Joshua DeBord, PhD
- 2:30 pm—2:45 pm     **B193**     **Resolving the "Unresolvable" Tandem Mass Spectra of the Isomers THC and CBD Using the Expert Algorithm for Substance Identification (EASI)**  
Alexandra Adeoye, MS; Glen Jackson, PhD\*
- 2:45 pm—3:00 pm     **B194**     **An Investigation Into the Decreased Abundance of Heroin in a Complex Mixture: A Gas Chromatography/Mass Spectrometry (GC/MS) Case Study of Seized Drug Evidence**  
Mikaela Romanelli, MS\*
- 3:00 pm—3:15 pm     **B195**     **The Transacetylation of Controlled Substances in Analytical Matrices**  
Bailey Davis, MPS\*; Jaclyn Beshlian, MFS; Anthony Chiusano, BS; Jennifer Yung, MS;  
Daniel Azevedo, BS
- 3:15 pm—3:30 pm     **BREAK**

# CRIMINALISTICS

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## You Can't Hide Your Dope From These Dogs

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Moderator: Pete Ausili, MS

Co-Moderator: Mariah Carson, MSFS

- 3:30 pm—3:45 pm      **B196**      **From Concept to Consensus: Advancing Standards for Dogs and Sensors in Detection Applications**  
Andrea Medrano, MSFS\*; Paola Tiedemann, PhD; Kenneth Furton, PhD; Suzanne Perry
- 3:45 pm—4:00 pm      **B197**      **Biological Sensor-Based Detection of Volatile Organic Compound Fractions From Human Remains**  
Rushali Dargan, PhD\*; Ruchao Qian, MS; Lauryn DeGreeff, PhD; Fantasia Whaley, MSFS\*; Joel Fuentes Carrasco, BS; Daigoro Greco, BS\*
- 4:00 pm—4:15 pm      **B198**      **Detector Dogs: Advancing Drug Detection Operations Using Science at the United States Customs and Border Protection**  
Jonathan McGrath, PhD\*; Armando Avallone, MS
- 4:15 pm—4:30 pm      **B199**      **The Development and Implementation of Fentanyl Training Aids to Advance Canine Detection Strategies**  
Armando Avallone, MS\*; Jonathan McGrath, PhD
- 4:30 pm—4:45 pm      **B200**      **The Development and Evaluation of a Novel Alternative Canine Training Aid for Fentanyl**  
Jonathan McGrath, PhD\*; Kristine Tanabe, PhD
- 4:45 pm—5:00 pm      **B201**      **Canine Training Aid Development of Novel Target Odors to Advance Strategies to Combat Fentanyl Precursors at the Border**  
Armando Avallone, MS\*; Jonathan McGrath, PhD\*
- 5:00 pm—5:15 pm      **B202**      **Canine Training Aid Substrate Optimization: Non-Targeted Contamination, and VOC Adsorption and Desorption**  
Fernando Zaldivar, BS\*; Natalia Gil Guitierrez; Kenneth Furton, PhD; Lauryn DeGreeff, PhD; Eduardo Moreira
- 5:15 pm—5:30 pm      **B203**      **Standards Development Activities Related to Ignitable Liquids, Explosives, and Gunshot Residue**  
Laura Hernandez, BS\*

# DIGITAL & MULTIMEDIA SCIENCES

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## Thursday

### Poster Session

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11:30 am—1:00 pm	<b>C1</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>C2</b>	WITHDRAWN
11:30 am—1:00 pm	<b>C3</b>	<b>The Role of Digital Forensics in Identifying Identity Theft</b> Oreoluwa Ladoja, MSc*; Ashraf Mozayani, PharmD; Jasmine Drake, PhD

### Facing the Facts

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Moderator: Graciela Rubio, BS

Co-Moderator: David Notowitz, BS

8:15 am—8:35 am	<b>C4</b>	<b>Facial Identification: Standardization, Certification, and Beyond</b> Steven Johnson, BS*; Richard Vorder Bruegge, PhD; Lora Sims
8:35 am—8:55 am	<b>C5</b>	<b>Emerging Paradigms in Forensic Facial Comparison Through Artificial Intelligence</b> Enrique Bermejo, PhD; M. Alejandra Guativonza, MA; Oscar Ibáñez, PhD*; Antonio D. Villegas, MSc; Alejandro Manzanares, MSc; Daniel García, BSc
8:55 am—9:15 am	<b>C6</b>	<b>WITHDRAWN</b>
9:15 am—9:35 am	<b>C7</b>	<b>Advanced Methods in Image Forgery Detection: Bridging Fundamentals and Emerging Technology</b> Chad Johnson, PhD*
9:35 am—9:55 am	<b>C8</b>	<b>Exploring the Impact of PDF Embedding on BMP and GIF Image Integrity and Authentication: The Initial Phase for Forensic Sciences</b> Gregory Wales, DSc*; Gregory Wales, MS
9:55 am—10:10 am		<b>BREAK</b>

### Sound Check

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Moderator: Nicole Odom, MSFS

Co-Moderator: Lucky Onyekwelu-Udoka, PhD

10:10 am—10:30 am	<b>C9</b>	<b>The Sound of Deception: Voice and Language Markers in Emotionally Charged Lies</b> Sunčica Kuzmić, MASc*; Ivan Jerković, PhD; Andrea Ledić, MSc
10:30 am—10:50 am	<b>C10</b>	<b>Speaker-Specific Deepfake Detection in Conversational Audio Analysis</b> Lucky Onyekwelu-Udoka, MASc*; Yong Guan, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)
10:50 am—11:10 am	<b>C11</b>	<b>Navigating Moral Quandaries on the Front Lines: Lessons From 25 Years of Audio and Video Forensics With Attorneys and Experts</b> David Notowitz, BA*

# DIGITAL & MULTIMEDIA SCIENCES

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11:10 am—11:30 am      **C12**      **An AI-Based Speech Analysis Technology for Courtroom Media Transcripts**  
Joseph Remy, JD; Aakash Taneja, PhD; Zachary Lord, BS\*; Melany Cruz, BS

11:30 am—1:00 pm      **BREAK**

## Fake It Until You Make It

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Moderator: Nicole Jones, MS

Co-Moderator: Vinicius Lima, PhD

Co-Moderator: Shuangteng Zhang, PhD

1:00 pm—1:20 pm      **C13**      **The Forensic-AI Fusion Toolbox: A Multi-Modal Framework for the Principled Detection of Advanced Deepfakes**

Zeno Geradts, PhD\* Stijn Van Lierop, MSc

1:20 pm—1:40 pm      **C14**      **A Holistic and Pragmatic Approach to Deepfake Forensics**

Marco Fontani, PhD\*; Blake Sawyer, BBA; Martino Jerian, MSc

1:40 pm—2:00 pm      **C15**      **Advances on Structure and Format Analysis for Media Forensics Authentication**

Cole Whitecotton, MSc\*; Catalin Grigoras, PhD\*

2:00 pm—2:20 pm      **C16**      **Evaluating the Use of a Novel Expert System for Media Authentication Results Interpretation**

Brandon Epstein, MS\*; Bertram Lyons, MA\*

2:20 pm—2:35 pm      **BREAK**

## Frames, Clicks, and Clues

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Moderator: Joseph Remy, JD

2:35 pm—2:55 pm      **C17**      **A Quantitative Study of Frame Extraction Methods, Tools, and Their Impact on Extracted Frame Quality From High-Efficiency Video Coding Videos**

Susan Kost, MSc\*; Catalin Grigoras, PhD; Gregory Wales, DSc; Cole Whitecotton, MSc

2:55 pm—3:15 pm      **C18**      **Exploring Dropbox Image Downloads to iPhone Via Safari: File System vs. Camera Roll Validation Study**

Gregory Wales, DSc\*; Alexander Nash, MS\*; Co-Author: Tierney Moe, BS

3:15 pm—3:35 pm      **C19**      **Uncovering User Behavior: AI-Based Timeline Reconstruction From Mobile Evidence**

Chen Shi, MS\*; Yong Guan, PhD

3:35 pm—3:55 pm      **C20**      **The Human Link in an Automated Era: Forensic Expertise in the Peritus Framework**

Dineusa Amaral, MBA\*; Cristiane Barbosa, MA\*; Anna Beatriz Rodrigues Geranio

# DIGITAL & MULTIMEDIA SCIENCES

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## Friday

### Catch Me if You Can

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Moderator: Vaishnavi Mahrindra

Co-Moderator: Patrick Siewert, BS

- 8:00 am – 8:20 am      **C21**      **Garmin Forensics: A Study on the Device’s Data Integrity and Reliability in Court**  
Vinicius Lima, PhD\*; Akif Ozer, MS; Umit Karabiyik, PhD
- 8:20 am—8:40 am      **C22**      **iGEM: A Multi-Device Forensic Visualization Software for Geolocation and Digital Evidence Matching**  
Xiao Hu, MS\*; Akif Ozer, MS\*; Marcus Rogers, PhD; Umit Karabiyik, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 8:40 am—9:00 am      **C23**      **Comparing Smart Phone Geolocation Accuracy: Forensic Analysis of iOS and Android Location Artifacts**  
Jeff Rutherford, BSc\*
- 9:00 am—9:20 am      **C24**      **The Dark Side of Discounts: How Temu Handles Your Data**  
Sonal Tyagi, MS\*; Umit Karabiyik, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 9:20 am—9:40 am      **C25**      **Leave a Message—Where?: A Study of Apple’s Voicemail Databases**  
Kaylee Schoepe, MS\*; Chad Stedl, BS; Andrew Crouse, BA\*; Brian Smith, BS
- 9:40 am—9:50 am      **BREAK**

### Man Versus Machine

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Moderator: Xiao Hu, MS

Co-Moderator: Yansi Keim, PhD

Co-Moderator: Michael McGowan, BA

- 9:50 am—10:10 am      **C26**      **Forensic Analysis and Privacy Implications of LLM Mobile Apps: A Case Study of ChatGPT, Copilot, and Gemini**  
Sonal Tyagi, MS\*; Yufeng Gong, MS\*; Umit Karabiyik, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:10 am—10:30 am      **C27**      **From Screen to Scene: An In-Depth Forensic Analysis on DeepSeek**  
Yufeng Gong, MS\*; Sonali Tyagi, MS\*; Vaishnavi Mahindra, MS\*; Umit Karabiyik, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:30 am—10:50 am      **C28**      **Reading Between the Handles: How Bad Actors on Reddit and Darknet Discuss AI/LLM Misuse for CSEA**  
Sonal Tyagi, MS\*; Kathryn Seigfried-Spellar, PhD\*  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 10:50 am—11:10 am      **C29**      **WITHDRAWN**
- 11:10 am—11:30 am      **C30**      **WITHDRAWN**
- 11:30 am—1:00 pm      **BREAK**

# DIGITAL & MULTIMEDIA SCIENCES

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## Show Me the Money

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Moderator: Sonali Tyagi, MS

Co-Moderator: Yufeng Gong, MS

Co-Moderator: Babangida Bappah

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|-----------------|------------|--|
| 1:00 pm—1:20 pm | <b>C31</b> | <b>Exploring the Use, Challenges, and Opportunities of Generative AI in Digital Forensics</b><br>Vir Phoha, PhD*   |
| 1:20 pm—1:40 pm | <b>C32</b> | <b>Can AI Explain Fraud? Explainable AI for Document Fraud Detection in Digital Forensics</b><br>Yujin Lee, BEng*; Umit Karabiyik, PhD; Marcus Rogers, PhD   |
| 1:40 pm—2:00 pm | <b>C33</b> | <b>Improving Learner Resilience to Online Fraud Through Immersive Roleplaying Experiences: A Transformative Learning Approach</b><br>Tatiana Ringenberg, PhD*; Paul Thomas, PhD; Alejandra Magana, PhD           |
| 2:00 pm—2:20 pm | <b>C34</b> | <b>Weighted Anomaly Detection and Cross-Chain Arbitrage Analysis: A Blockchain Forensics Framework</b><br>Xiao Hu, MS*; Umit Karabiyik, PhD*<br><i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i> |
| 2:20 pm—2:35 pm |            | <b>BREAK</b>   |

## Method to the Madness

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Moderator: Matthew Moverson

Co-Moderator: Tatiana Ringenberg, PhD

- |                 |            |   |
|-----------------|------------|---|
| 2:35 pm—2:55 pm | <b>C35</b> | <b>Intent in Isolation: Forensics of Echo Chamber Activity</b><br>Vaishnavi Mahindra, MS*; Marcus Rogers, PhD   |
| 2:55 pm—3:15 pm | <b>C36</b> | <b>Scalpel3: A New High-Performance Carving Architecture for Recovering Fragmented Files</b><br>Golden Richard, PhD*; James Ghawaly, PhD; Karley Waguespack, MS |
| 3:15 pm—3:35 pm | <b>C37</b> | <b>A Research-Focused Framework for Empirical Method Validation in Digital and Multimedia Evidence</b><br>Gregory Wales, DSc*                                   |
| 3:35 pm—3:55 pm | <b>C38</b> | <b>Applied Gamification Research in Digital Forensics Higher Education for Knowledge and Skill Retention</b><br>Yansi Keim, PhD*; Marcus Rogers, PhD            |

# ENGINEERING & APPLIED SCIENCES

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## Thursday

### Poster Session

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11:30 am – 1:00 pm	<b>D1</b>	<b>WITHDRAWN</b>
11:30 am – 1:00 pm	<b>D2</b>	<b>Forensic Reconstruction of a Fatal Stair-Related Fall Using Postmortem CT, Photogrammetry, and Virtual Reality: A Case Report</b> Haruki Fukuda, MD, PhD*; Tadashi Hosoya, MD, PhD; Hiroyuki Tokue, MD, PhD
11:30 am – 1:00 pm	<b>D3</b>	<b>WITHDRAWN</b>

## Thursday

### Medical Topics

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Moderator: Kurt Weiss, MS

Co-Moderator: David Pienkowski, PhD

8:30 am – 9:00 am	<b>D4</b>	<b>Built to Harm? Forensic Perspectives on Design-Induced Suicide and Self-Harm in Detention Facilities</b> Mohsen Ghoreishi, MA*
9:00 am—9:20 am	<b>D5</b>	<b>The Fluid Dynamics of Intravitreal Injections as It Relates to Needle Design</b> Amanda Felstow*; Cynthia Bir, PhD; Andrew Davis, MPH; Brittany Hodges, MD; Kavon Rahmani, BSc; Pradeepa Yoganathan, MD
9:20 am—9:40 am	<b>D6</b>	<b>Spectral Characterization and AI Modeling of Human Decomposition-Impacted Soils Over the Period of One Year</b> Koushik Sanjay Saravana Kumar*; Lois Taylor, PhD; Jennifer DeBruyn, PhD; Sathish Samiappan, PhD
9:40 am—10:00 am	<b>D7</b>	<b>WITHDRAWN</b>
10:00 am—10:15 am		<b>BREAK</b>

### AI, Linguistics, and Forensic Methods

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Moderator: Nathan Holmes

Co-Moderator: Carole Chaski, PhD

10:15 am—10:35 am	<b>D8</b>	<b>Building the Artificial Intelligence Infrastructure for Forensics</b> Mihir Joshi, BS*; Vikas Kakar*; Maneesha Pandey, MD; Avneesh Pradhan, MS Avneesh Pradhan, MS*
10:35 am—11:05 am	<b>D9</b>	<b>Computational Linguistic Analysis in Financial Fraud Investigations</b> David Weber, DBA*; Ruwan Adikaram, PhD; Carole Chaski, PhD

# ENGINEERING & APPLIED SCIENCES

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11:05 am—11:25 am	<b>D10</b>	<b>From Variation to Verification: A Basic Forensic Method for Identifying Single vs. Multiple Authors of Anonymous Letters</b> Jelena Tabak, MA*; Andrea Ledić, MSc; Ivan Jerković, PhD
11:25 am—11:45 am	<b>D11</b>	<b>Exploring Runtime Evolution in Android: A Cross-Version Analysis and Its Implications for Memory Forensics</b> Babangida Bappah*; Aisha Ali-Gombe, PhD; Lauren Bristol, BS; Lamine noureddine, PhD; Sideeq Bello, BSc; Umar Farooq, PhD
11:45 am—1:00 pm		<b>BREAK</b>

## Multidisciplinary Session: Engineering & Applied Sciences and Forensic Nursing Science

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Moderator: Max Veltman, PhD

Co-Moderator: Katie Wells, MPH

1:00 pm—1:20 pm	<b>D12</b>	<b>Thoracic Aorta Injuries in Fatal Motor Vehicle Crashes: A Pilot Study and Comparative Mechanism Analysis</b> Angela Harden, PhD*; Delaney Edwards, MA; Mary Cole, PhD; Brian Bautsch, MBA; Lauren Cardoni, MS; John Bolte, PhD
1:20 pm—1:40 pm	<b>D13</b>	<b>Evaluating Thoracic Deflection and Injury Risk From Seatbelt Pretensioners in Small Female Occupants</b> John Bolte, PhD*; Allison Guettler, PhD; Amanda Agnew, PhD; Yun-Seok Kang, PhD
1:40 pm—2:10 pm	<b>E9</b>	<b>A Patient-Centered Forensic Nursing Model of Care for Victims of Law Enforcement Violence</b> Maija Anderson, DNP*; Jacqueline Callari Robinson, RN; Jocelyn Anderson, PhD; Erin Pollitt, MS
2:10 pm—2:25 pm		<b>BREAK</b>
2:25 pm—2:45 pm	<b>D14</b>	<b>Seeing Beyond the Surface: Structured-Light 3D Scanning in a Prison Suicide by Hanging</b> Simona Calabrese, MD*; Alessandro Nicolosi, MD*; Daniela Sapienza, PhD; Filippo Cucinotta, PhD; Fabio Salmeri, PhD; Cristina Mondello, PhD
2:45 pm—3:15 pm	<b>E10</b>	<b>Smarter Than the Science: The History of Service Dogs</b> Janean Fossum, BS*
3:15 pm—3:35 pm	<b>D15</b>	<b>Multi-Modal Deep Learning for Bruise Age Estimation: Enhancing Forensic Reliability Through Integrated Visual and Contextual Data</b> Mehrdad Ghyabi, PhD*; Katherine Scafide, PhD; David Lattanzi, PhD

## Friday

### Poster Session

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11:30 am—1:00 pm	<b>D16</b>	<b>A Forensic Investigation of Hydrogen-Driven Blasts in Galvanized Sprinkler Systems</b> Songhie An, PhD*; Sungwan Park, MAsC; Wooyong Park, MSc
11:30 am—1:00 pm	<b>D17</b>	<b>Multidimensional Scaling of Hybrid Similarity Search Match Factors for Fentanyl Analogs</b> Melinda Kleczynski, PhD*; Arun Moorthy, PhD; Anthony Kearsley, PhD*

# ENGINEERING & APPLIED SCIENCES

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## Vehicle Forensic Investigations

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Moderator: Harold Franck, MSEE

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|------------------|------------|---|
| 8:30 am—8:50 am  | <b>D18</b> | <b>Officer Confusion Leads to Improper Conclusions in a Fatal Head-On Accident</b><br>Darren Franck, MSME*; Harold Franck, MSEE                               |
| 8:50 am—9:10 am  | <b>D19</b> | <b>Sun Altitude and Azimuth Causes a Fatal Crash With a Flatbed Trailer</b><br>Kurt Weiss, MSME*  |
| 9:10 am—9:30 am  | <b>D20</b> | <b>Heavy Truck Cab Integrity and the Swedish Test</b><br>Christopher Clarke, BS*; Brian Herbst, BS  |
| 9:30 am—9:50 am  | <b>D21</b> | <b>The Fine Points of the Interrelationship Between Vehicle Dynamics and Occupant Kinetics in Frontal Motor Vehicle Accidents (MVAs)</b><br>David Porta, PhD* |
| 9:50 am—10:05 am |            | <b>BREAK</b>  |

## Environmental Topics

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Moderator: Kurt Weiss, MSME

Co-Moderator: Darren Franck, MSME

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|-------------------|------------|--|
| 10:05 am—10:25 am | <b>D22</b> | <b>WITHDRAWN</b>   |
| 10:25 am—10:45 am | <b>D23</b> | <b>WITHDRAWN</b>   |
| 10:45 am—11:15 am | <b>D24</b> | <b>Robust Linking Estimation in the Graded Response Model With Contaminated Ability Distributions</b><br>Ibrahim Almansour, MS*; Larry Tang, PhD                   |
| 11:15 am—11:35 am | <b>D25</b> | <b>Aerosols With Addresses: A Method for Testing Aerosol Dispersion in Variable Environments</b> Catherine Reyes, PhD*   |
| 11:35 am—1:00 pm  |            | <b>BREAK</b>   |
| 1:00 pm—1:30 pm   | <b>D26</b> | <b>The Aberrant Behavior of Gas Appliances That Incorporate Flame Arrestors Being Indicative of Fugitive Fuel Gas Intrusion by Soil Migration</b><br>Tim Dunn, MS* |
| 1:30 pm—2:00 pm   | <b>D27</b> | <b>Lessons From the Wreckage: Forensic Architecture and Construction Failures Every Professional Should Understand</b><br>Mohsen Ghoreishi, MA*                    |
| 2:00 pm—2:20 pm   | <b>D28</b> | <b>WITHDRAWN</b>   |
| 2:20 pm—2:40 pm   | <b>D29</b> | <b>Hydrogen Explosion in Sprinkler Pipes: A Forensic Chemical Analysis</b><br>Songhie An, PhD*; Sungwan Park, MASc; Wooyong Park, MSc                              |
| 2:40 pm—3:10 pm   | <b>D30</b> | <b>A Mechanical and Metallurgical Investigation of Cracks Within a Pipeline Repair</b><br>Bart Kemper, PE*   |

# FORENSIC NURSING SCIENCE

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## Wednesday

### Poster Session

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- 11:30 am—1:00 pm      **E1**      **Forensic Nursing in India-Importance of Introducing Forensic Nursing in Indian Scenario**  
Sangeeta Shokeen, MSc\*

## Thursday

### Forensic Nursing and Sexual Violence

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Moderator: Jessica Volz , DNP

Co-Moderator: Lynda Benak, MSN

- 9:00 am—9:30 am      **E2**      **System-Wide Education for Adult Sexual Assault Response: Integrating Emergency and Inpatient Teams to Improve Care and Forensic Readiness**  
Jamie Ferrell, MBA\*; Christie Dawson, MSN; Amber Sneed, MD
- 9:30 am—9:50 am      **E3**      **Female Genital Mutilation Among Asylum Seekers in Montpellier, France: A Medicolegal Estate and Literature Review**  
Quentin Rébillard, MD\*; Fanchon Herman, MSc; Eric Baccino, MD, PhD;  
Laurent Martrille, MD, PhD; Stavroula Papadodima, MD, PhD
- 9:50 am—10:10 am      **E4**      **WITHDRAWN**
- 10:10 am—10:20 am      **BREAK**
- 10:20 am—10:40 am      **E5**      **The Shadow of Gynecological Violence in the Health Management of Survivors of Sexual Assault**  
Sarah Gino, MD\*; Elena Rubini, PhD
- 10:40 am—11:15 am      **E6**      **Preliminary Findings: Focus Group Insights and Perspectives of Forensic Nurses (SANE) Attending STARS SANE Education**  
Jacqueline Callari Robinson, RN\*
- 11:15 am—11:45 am      **E7**      **Silent Indicators: STI Positivity in Prepubescent Children With Minimal Disclosure During Sexual Assault/Abuse Evaluations**  
Sally Henin, MD\*; Jamie Ferrell, MBA
- 11:45 am—12:00 pm      **E8**      **Victims' Perspectives on Optional Forensic Testing of Non-Report Sexual Assault Kits**  
Rachael Goodman-Williams, PhD
- 12:00 am—1:00 pm      **BREAK**

### Multidisciplinary Session: Engineering & Applied Sciences and Forensic Nursing Science

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Moderator: Max Veltman, PhD

Co-Moderator: Katie Wells, MPH

- 1:00 pm—1:20 pm      **D12**      **Thoracic Aorta Injuries in Fatal Motor Vehicle Crashes: A Pilot Study and Comparative Mechanism Analysis**  
Angela Harden, PhD\*; Delaney Edwards, MA; Mary Cole, PhD; Brian Bautsch, MBA;  
Lauren Cardoni, MS; John Bolte, PhD
- 1:20 pm—1:40 pm      **D13**      **Evaluating Thoracic Deflection and Injury Risk from Seatbelt Pretensioners in Small Female Occupants**  
John Bolte, PhD\*; Allison Guettler, PhD; Amanda Agnew, PhD; Yun-Seok Kang, PhD

# FORENSIC NURSING SCIENCE

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1:40 pm—2:10 pm	<b>E9</b>	<b>A Patient-Centered Forensic Nursing Model of Care for Victims of Law Enforcement Violence</b> Maija Anderson, DNP*; Jacqueline Callari Robinson, RN; Jocelyn Anderson, PhD; Erin Pollitt, MS
2:10 pm—2:25 pm		<b>BREAK</b>
2:25 pm—2:45 pm	<b>D14</b>	<b>Seeing Beyond the Surface: Structured-Light 3D Scanning in a Prison Suicide by Hanging</b> Simona Calabrese, MD*; Alessandro Nicolosi, MD*; Daniela Sapienza, PhD; Filippo Cucinotta, PhD; Fabio Salmeri, PhD; Cristina Mondello, PhD
2:45 pm—3:15 pm	<b>E10</b>	<b>Smarter Than the Science: The History of Service Dogs</b> Janean Fossum, BS*
3:15 pm—3:35 pm	<b>D15</b>	<b>Multi-Modal Deep Learning for Bruise Age Estimation: Enhancing Forensic Reliability Through Integrated Visual and Contextual Data</b> Mehrddad Ghyabi, PhD*; Katherine Scafide, PhD; David Lattanzi, PhD

## *Friday*

### **Forensic Nursing and Sexual Violence**

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Moderator: Laurie Charles, DNP

Co-Moderator: Jessica Volz, DNP

9:00 am—9:30 am	<b>E11</b>	<b>Mixed Method Assessment of Trauma-Informed Care Decision-Making and Incorporation Into Forensic Nursing Practice</b> Laurie Charles, DNP*
9:30 am—9:50 am	<b>E12</b>	<b>The Intersection and Implications of Strangulation in Consensual Sexual Encounters and Sexual Assault Cases</b> Alyssa Lark, BSN*; Julie Valentine, PhD*; Alyssa Lark, BSN
9:50 am—10:10 am	<b>E13</b>	<b>The Role of Medical Records in Cases of Medical and Nursing Liability</b> Luca Calanna, MD*; Matteo Antonio Sacco, MD*; Alessandro Pasquale Tarallo, MD*; Maria Cristina Verrina, MD; Aurora Princi, MD; Gioele Grimaldi, MD; Maria Daniela Monterossi, MD; Mariachiara Militi; Isabella Aquila, MD, PhD*
10:10 am—10:20 am		<b>BREAK</b>
10:20 am—11:20 am	<b>E14</b>	<b>The Science of Strangulation: What We Know, What We Assume, and What Still Isn't Proven</b> Tara Godoy, MBA, BSN*; Merriam Young, MS, RN
11:20 am- 11:30 am		<b>BREAK</b>
11:30 am—11:50 am	<b>E15</b>	<b>A Forensic Examination of Paper Medical Records</b> Linton Mohammed, PhD*
11:50 am—12:10 pm	<b>E16</b>	<b>Exploring the Use of Positive Deviance in Forensic Nursing</b> Jodie Gary, PhD*; Laurie Charles, DNP
12:10 pm—1:15 pm		<b>BREAK</b>

# FORENSIC NURSING SCIENCE

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## Forensic Nursing Across the Globe: Legal Principles, Forensic Science, and Nursing Science

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Moderator: Barbara Bachmier, JD

Co-Moderator: Jessica Volz, DNP

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|-----------------|------------|--|
| 1:15 pm—1:35 pm | <b>E17</b> | <b>Following in the Footsteps of Virginia Lynch: The Attitudes of Israeli Emergency Department Nurses Toward the Role of Forensic Nurses</b><br>Orli Grinstein-Cohen, PhD*; Sivan Cukerman-Hgag,, MN   |
| 1:35 pm—1:55 pm | <b>E18</b> | <b>Violence Against Health Care Workers in a University Referral Hospital in Northwestern Italy</b><br>Federica Collini, MD*; Silvia Rampi, MN; Martina Barrea, BS   |
| 1:55 pm—2:15 pm | <b>E19</b> | <b>The Impact of Italian Regional Guidelines on the Use of Safety Devices That Limit Patient Movement in Hospitals on Falls, Physical Restrictions, and Their Consequences: A Retrospective Study</b><br>Federica Collini, MD*; Silvia Rampi, MN; Martina Barrea, BS |

# GENERAL

## Wednesday

### Poster Session

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11:30 am—1:00 pm	<b>F1</b>	<b>A Five-Year Review of Fire Scene Fatalities at the West Tennessee Regional Forensic Center</b> Sydney Carr, BS*; Ibrahim Ortanca, MD
11:30 am—1:00 pm	<b>F2</b>	<b>A Peculiar Case of Complex Suicide by Hanging With Hesitation Marks From Incised Wounds</b> Gianmarco Sirago, MD*; Susanna Sabato, MD; Annachiara Vinci, MD; Biagio Solarino, MD, PhD; Paolo Visci; Davide Ferorelli, MD
11:30 am—1:00 pm	<b>F3</b>	<b>A Qualitative NMR and Histological Analysis of Adipocere Formation in Different Aqueous Environments Using Sus Scrofa Models</b> Mia Sorrentino, MS*; Angeliqe Corthals, DPhil
11:30 am—1:00 pm	<b>F4</b>	<b>A Rare Case of Suicidal Strangulation: Diagnostic Challenges in Forensic Practice</b> Alessandro Ghamlouch, MD*; Gaia De Angelis, MD; Gabriele Napoletano, PhD; Biancamaria Treves, MD; Maura Racciatti, MD; Fabio Del Duca, MD
11:30 am—1:00 pm	<b>F5</b>	<b>A Retrospective Analysis of the Clark County Office of the Coroner/Medical Examiner Pediatric Homicides (1991–2024)</b> Laura Jordan, MA*; Candace Caterer; Jennifer Byrnes, PhD; Melanie Rouse, MA; Nathan Shaller, MD
11:30 am—1:00 pm	<b>F6</b>	<b>The Characteristics and Resistance of Paper Money in Gunshot Wounds: A Case Report and Experimental Study</b> Massimo Musardo, LLB; Matteo Antonio Sacco, MD*; Saverio Gualtieri, MD; Alessandro Pasquale Tarallo, MD; Maria Cristina Verrina, MD; Denise Errigo, LLM; Claudia Catia De Pasquale, MSc*; Roberto Raffaele, MSc*; Isabella Aquila, MD, PhD*
11:30 am—1:00 pm	<b>F7</b>	<b>A Chronological Evolution of Volatile Organic Compounds (VOCs) From Burned Human Remains Analogs</b> Daigoro Greco, BS*; Lauryn DeGreeff, PhD
11:30 am—1:00 pm	<b>F8</b>	<b>Concurrent Crises: Modeling the Pandemic's Impact on Accidental Poisoning Deaths and the Medical Examiner and Coroner System Burden</b> Molly Pierson, MPH*
11:30 am—1:00 pm	<b>F9</b>	<b>Dealing With Death: Perspectives From Forensic Personnel</b> Rebecca Platt, BA, BS*
11:30 am—1:00 pm	<b>F10</b>	<b>Death at Climax: A Case of Aneurysmal Subarachnoid Hemorrhage During Sexual Intercourse</b> Pawan Kumar, MD*; Abhishek Yadav, MD
11:30 am—1:00 pm	<b>F11</b>	<b>Drug Overdose Deaths in Knox County, Tennessee, Adults 65 and Over: A Retrospective Study</b> Christie-Anne Estrada, MD*; Darinka Mileusnic-Polchan, MD, PhD
11:30 am—1:00 pm	<b>F12</b>	<b>Drug Trends and Novel Psychoactive Substances Identified Through Forensic Casework in the District of Columbia</b> Marsha Cox, BS*; Alexander San Nicolas, MSFS*
11:30 am—1:00 pm	<b>F13</b>	<b>Evaluating the Quality and Quantity of Detail of Latent Prints on Buried Objects</b> Angela Gonzalez Bueno, BS*; Cait Porterfield, MS

# GENERAL

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- 11:30 am—1:00 pm **F14** **The Experimental Evaluation of the Wounding Potential of a Nail Clipper: A Compatibility Study Between an Atypical Tool and Medicolegal Lesions**  
Matteo Antonio Sacco, MD\*; Roberto Raffaele, MSc\*; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **F15** **A Fatal Bilateral Jugular Vein Lesion From Multiple Sharp-Force Injuries: An Unusual Case Involving Atypical Weapons**  
Gianmarco Sirago, MD\*; Natalia Sebastiani, MD; Paolo Visci; Davide Ferorelli, MD; Annachiara Vinci, MD; Alessandro Dell'Erba, MD, PhD
- 11:30 am—1:00 pm **F16** **A Fatal Tracheal Impalement Injury: An Accidental Fall From a Height or Suicidal Event? A Case Report and Review of the Literature**  
Tindara Biondo, MD\*; Gennaro Baldino, MD, PhD\*; Giorgia Burrascano, MD; Pietro Tarzia, MD; Elvira Ventura spagnolo, MD; Marija Caplinskiene, MD
- 11:30 am—1:00 pm **F17** **Forensic Age Estimation With Artificial Intelligence: An Experimental Study for the Identification of Underage Victims**  
Matteo Antonio Sacco, MD\*; Alessandro Pasquale Tarallo, MD\*; Saverio Gualtieri, MD; Aurora Princi, MD\*; Roberto Raffaele, MSc\*; Claudia Catia De Pasquale, MSc; Andrea Costa; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **F18** **Forensic Aspects of "Incaprettamento"**  
Saverio Gualtieri, MD\*; Matteo Antonio Sacco, MD\*; Alessandro Pasquale Tarallo, MD; Mattia Solano, MD\*; Pietro Tarzia, MD\*; Savino Franco, MD; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **F19** **From Autopsy to Action: Leveraging Medicolegal Data to Prevent Overdose Deaths in Correctional Facilities**  
Ava Lewandowski, BA\*; Theodore Brown, MD
- 11:30 am—1:00 pm **F20** **WITHDRAWN**
- 11:30 am—1:00 pm **F29** **Medicolegal Death Investigation and the Use of Digital Latent Print Analysis in Establishing Positive Identification on Complex, High Profile, and Time-Sensitive Cases**  
Caroline Hanau, MS\*; Aubrey Bryak, MDI; Carrie Costello, MS

## Thursday

### Poster Session

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- 11:30 am—1:00 pm **F21** **High-Energy Blunt Force Trauma: Massive Craniofacial Disruption From a Tire Projection**  
Fabio Del Duca, MD, PhD\*; Alessandro Ghamlouch, MD; Biancamaria Treves, MD; Gaia De Angelis, MD; Maura Racciatti, MD; Vittoria Zammar, MD
- 11:30 am—1:00 pm **F22** **The Incidentally Detected 46, XY Disorder of Sex Development in Short Tandem Repeat Analysis**  
Sojung Lim, MD\*; Sohee Cho, PhD; Soong Deok Lee, MD, PhD
- 11:30 am—1:00 pm **F23** **Investigating and Analyzing After a Fatal Fall From Heights**  
Isabelle Sec, MD\*; Patrick Joffrin; Bertrand Ludes, PhD
- 11:30 am—1:00 pm **F24** **Investigating the Effects of Substrate Color on the Detection of Ruhemann's Purple Using Confocal Raman Microscopy**  
Daye Kim, MFS\*; Jorn Yu, PhD; Geraldine Monjardez, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)

# GENERAL

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- 11:30 am—1:00 pm **F25** **It Went Under My Skin: Assessing Tattoo Persistence Under Postmortem Conditions**  
Jade Ryan, MSc\*; Matteo Borrini, PhD
- 11:30 am—1:00 pm **F26** **Knife Crimes Then and Now: Forensic Lessons From the Murder of Martha Tabram**  
Matteo Borrini, PhD\*
- 11:30 am—1:00 pm **F27** **WITHDRAWN**
- 11:30 am—1:00 pm **F28** **Lethal Heat—The Deadly Impact of Rising Global Temperatures: A Case Study**  
Monica La Greca, APM\*; Gianluca Piras, MD; Benedetta Baldari, PhD
- 11:30 am—1:00 pm **F30** **Observing United Kingdom Cadaver Dog Performance in Aquatic Environments Through UK-K9: A Basis for Global Search and Recovery Training Comparisons**  
Ellen Shakeshaft, MSc\*  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm **F31** **One Car, Two Methods for Self-Harm—An Unplanned Complex Suicide: A Case Report**  
Giovanni Pollice, MD\*; Andrea Cioffi, MD; Luigi Cipolloni, MD, PhD; Camilla Cecannecchia, MD; Roberta Bibbò, MD; Chiara Fabrello, MD
- 11:30 am—1:00 pm **F32** **Overkill Behind Closed Doors: A Case Series and Review of the Literature of Familiar Homicides**  
Domenico Abramo, MD\*; Cataldo Raffino, MD; Gennaro Baldino, MD, PhD\*; Giorgia Burrascano, MD; Elvira Ventura spagnolo, MD; Tindara Biondo, MD
- 11:30 am—1:00 pm **F33** **Porcine Decomposition Rates as an Estimate for Human Postmortem Interval in the High Desert Ecosystem of Northern Arizona**  
Hillary Eaton, PhD\*; Makenzi Patterson, BSc; Nina Gowell, BSc; Brooke Holt-Eddington, BSc; Megan Cramer
- 11:30 am—1:00 pm **F34** **A Preliminary Analysis on Deaths in the LGBTQ Population in Jefferson County, Alabama**  
Elizabeth Lee, BA; Brandi McCleskey, MD\*
- 11:30 am—1:00 pm **F35** **WITHDRAWN**
- 11:30 am—1:00 pm **F36** **Sample Demographics, Injury Patterns, and the Influence of Ocean Currents on the Movement of Bodies of Golden Gate Bridge Jumper Cases**  
Samantha Robinson, BS\*; Jazmin Borrayo, BA; Eric Bartelink, PhD
- 11:30 am—1:00 pm **F37** **Sugar Land 95: Ethical Considerations Using Forensic Investigative Genetic Genealogy to Identify Historic Remains**  
Samantha Hofland, MA\*; Meradeth Snow, PhD; Catrina Whitley, PhD; Helen Graham, EdD; Abigail Fisher, PhD; Rita Simonetta, BA
- 11:30 am—1:00 pm **F38** **Taphonomic Surface Changes: A New Frontier in Grave Detection?**  
Mike Walters, MSc\*; David Errickson, PhD; Roland Wessling, MSc
- 11:30 am—1:00 pm **F39** **The Temporal and Environmental DNA (eDNA) Effects on Microbial Composition of Latent Fingerprints**  
Emily Kenoyer, BS\*; Josep De Alcaraz-Fossoul, PhD

# GENERAL

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11:30 am—1:00 pm      **F40**      **The Humanitarian and Human Rights Resource Center (HHRRC): Ten Years of Serving the Academy and the Global Community**  
Dawnie Steadman, PhD\*

## *Thursday—Session I*

### **Medicolegal Death Scene Investigation**

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Moderator: Hamidrezac Sharifan, PhD

Co-Moderator: Micaela Ascolese, MS

- 8:00 am—8:20 am      **F41**      **Medicolegal Death Investigation—Then and Now: Advancements Over the Past 15 Years**  
David Kintz, BS\*
- 8:20 am—8:40 am      **F42**      **The Basics of Medicolegal Death Investigation Systems Across the United States**  
Kelly Keyes, BS\*
- 8:40 am—9:00 am      **F43**      **Is the Extent of Decomposition Consistent With Other Scene Observations? A Synthesis of 82 Cases on O‘ahu, Hawai‘i**  
David Carter, PhD\*; Katherine Bratt, BS; Charlotte Carter, MS; Chelsie Mangca-Valdez, MFS; Alexis Peterson, BS; Philip Verso, BA
- 9:00 am—9:20 am      **F44**      **Medicolegal Recognition of Autoerotic Deaths in a Ubiquitous Digital Age**  
Brett Harding, MBA\*; Christina Di Loreto, MD; Jessica Macdonald, MA; Carolina Ramos, BS; Shelly Pearlman
- 9:20 am—9:40 am      **F45**      **A Forensic Analysis of an 820-Foot Fall Into Water: Deceleration Trauma Patterns**  
Benjamin Charroy, MD\*; Camille Launoy, MD; Gilles Tournel, MD, PhD; Idriss-Marly M'bama, MD; Florence Vincent, MD; Erwan Le Garff, PhD
- 9:40 am—10:00 am      **F46**      **A Multicentric Study on Forensic Investigation of Blunt Force Versus Fall-Induced Head Trauma: A Multidisciplinary Methodological Proposal**  
Gennaro Baldino, MD, PhD\*; Giovanni Cecchetto, MD; Paolo Fais, MD; Elvira Ventura spagnolo, MD; Margherita Neri, PhD; Antonio Oliva, MD
- 10:00 am—10:20 am      **BREAK**

### **Death Investigation/Lie Detection**

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Moderator: Clare Fried, MSFS

Co-Moderator: Tracilyn Nakatsuka, BA

- 10:20 am—10:40 am      **F47**      **Standards Development Activities in Medicolegal Death Investigation, Including Disaster Victim Identification**  
Kelly Keyes, BS\*; Michelle Rippy, EdD
- 10:40 am—11:00 am      **F48**      **Suicide Via Sodium Nitrite Ingestion: Trends in Multnomah County, Oregon, 2018–2025**  
Jessica Crowson, MFS\*; Jaxson Haug, MA
- 11:00 am—11:30 am      **F49**      **Lie Detection, Polygraph Testing, Credibility Assessment: Forensic History, Current Status, and Future Developments**  
Frank Horvath, PhD\*
- 11:30 am—1:00 pm      **BREAK**

# GENERAL

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## Case Studies

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Moderator: Brett Harding, MBA

Co-Moderator: Brittney Valarezo, CAPM

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|-----------------|------------|---|
| 1:00 pm—1:20 pm | <b>F50</b> | <b>A Digital Forensic Phone Download Solves a Homicide Case: “I’ll Help You After I Watch You Die!”</b><br>Aubrey Bryak, MDI*; Caroline Hanau, MS*; Carrie Costello, MS   |
| 1:20 pm—1:40 pm | <b>F51</b> | <b>Children of the ’70s: Using NCMEC to Identify Unidentified Juvenile Human Remains</b><br>Lara Newell, MA*  |
| 1:40 pm—2:00 pm | <b>F52</b> | <b>Good Ol’-Fashioned Detective Work in a Case of Dismemberment</b><br>Tracy Brisendine, BA*  |
| 2:00 pm—2:20 pm | <b>F53</b> | <b>A Cold Case Critical Review: Overcoming Investigation Errors and Omissions to Prove Homicide by Two Distinct Cranial Gunshots Inflicted by .22LR (Long Rifle) Shotgun and Solid Bullet Ammunition Types</b><br>Robert Sigillito, MD*                                     |
| 2:20 pm—2:40 pm | <b>F54</b> | <b>Inadequate Injury Documentation in the Emergency Setting: Forensic Implications and Evidence From Italian Cases</b><br>Annalisa Sofia, MD*; Giulia Brambilla, MD; Giovanni Cecchetto, MD, PhD;<br>Alessandra Mammana, MD; Federica Trevissoi, MD; Alessia Viero, MD, PhD |
| 2:40 pm—3:00 pm | <b>F55</b> | <b>Lessons Learned From Health Care Serial Killers: The Evolution of the British Medical Examiner Service</b><br>Claire Power, MSc*; Fiona Wilcox, MD; Sajeel Shah, PhD; Nikolas Lemos, PhD   |
| 3:00 pm—3:20 pm |            | <b>BREAK</b>  |

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## General Session: Thursday Afternoon I

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Moderator: Rebecca Walter, MFS

Co-Moderator: Krista Troup, MS

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|-----------------|------------|---|
| 3:20 pm—3:40 pm | <b>F56</b> | <b>Fatal and Severe Contrast Media-Related Adverse Effects: A Forensic and Clinical Perspective From Two Cases</b><br>Alice Buzzelli, MD*; Chiara Carsana, MD*; Luca Morini, PhD; Valentina Bugelli, MD, PhD;<br>Lorenzo Franceschetti, MD, PhD*; Gaetano Pietro Bulfamante, MD |
| 3:40 pm—4:00 pm | <b>F57</b> | <b>Fatal Entrapment in an Industrial Concrete Mixer: A Forensic Case Report of Polytrauma and Asphyxiation</b><br>Benjamin Charroy, MD*; Camille Launoy, MD; Gilles Tournel, MD, PhD; Florence Vincent, MD;<br>Benjamin Mokdad, MD; Helène Fricker, MD                          |
| 4:00 pm—4:20 pm | <b>F58</b> | <b>From Scanner to Courtroom: Best Practice Standards for Postmortem Computed Tomography</b><br>Jamie Elifritz, MD*; Summer Decker, PhD*; Natalie Adolphi, PhD*   |
| 4:20 pm—4:40 pm | <b>F59</b> | <b>The Examination of Blunt, Sharp, and High-Velocity Trauma on Burned Human Remains</b><br>Darren Solomon, MS*; Rebecca George, PhD; Kaleigh Best, PhD   |
| 4:40 pm—5:10 pm | <b>F60</b> | <b>Homicide or Suicide? An Interdisciplinary Approach to Reconstruction of a Crime Scene</b><br>Jennifer McCampbell, MCS*   |
|                 | <b>F61</b> | <b>WITHDRAWN</b>  |

# GENERAL

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## ***Thursday—Session II***

### **Wildlife Forensics (Animals/Entomology/Plants)/Filicide/Face and Vocal Characteristics**

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Moderator: Deadra Caleb, MS

Co-Moderator: Lara Newell, MA

8:00 am—8:20 am	<b>F62</b>	<b>A Novel Method of Preserving Fly-Related Samples at Crime Scenes and in Labs for a Better Demonstration at Trial</b> John Wang, PhD*
8:20 am—8:40 am	<b>F63</b>	<b>Optimizing a Multi-Biochemical Method for the Taxonomic Identification of Single Pollen Grains: A Forensic Application</b> Jack Trimble, MS*; Madison Adolfs, BS; Matthieu Baudelet, PhD; Camron Melendez, BS
8:40 am—9:00 am	<b>F64</b>	<b>WITHDRAWN</b>
9:00 am—9:20 am	<b>F65</b>	<b>The Fur Project: Species Identification in Forensic Casework Using Phylogenetic Proteomics</b> Glendon Parker, PhD*; Nicole McLoughlin, MSc; Kyle Burk, MS; Ashley Spicer, MScFS; Barry Baker, MA
9:20 am—9:40 am	<b>F66</b>	<b>WITHDRAWN</b>
9:40 am—10:00 am	<b>F67</b>	<b>WITHDRAWN</b>
10:00 am—10:20 pm		<b>BREAK</b>

### **Archaeology/Wildlife Forensics**

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Moderator: Dayla Rich, PhD

Co-Moderator: Yakubu Magaji Yuguda, MSc

10:20 am—10:40 am	<b>F68</b>	<b>Back to Basics: Stratigraphy in Forensic Archaeology: Principles, Pitfalls, and the Path Forward</b> Ian Hanson, PhD*; Laura Evis, PhD
	<b>F69</b>	<b>WITHDRAWN</b>
	<b>F70</b>	<b>WITHDRAWN</b>
10:40 am—1:00 pm		<b>BREAK</b>

# GENERAL

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## Education/Artificial Intelligence/Metaverse

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Moderator: Amanda Alvarez Wright, MPA

Co-Moderator: Jamie Elifritz, MD

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|-----------------|------------|---|
| 1:00 pm—1:20 pm | <b>F71</b> | <b>Keeping It Real: Ensuring Students and Trainees Get Realistic Experiences to Prepare Them for Working in Real Laboratories</b><br>Stewart Walker, PhD*   |
| 1:20 pm—1:40 pm | <b>F72</b> | <b>The Use of Mindfulness Practices to Enhance Thinking, Observation, and Problem-Solving Skills for Forensic Science Students and Forensic Practitioners</b><br>Douglas Ridolfi, MS*   |
| 1:40 pm—2:00 pm | <b>F73</b> | <b>Think Like a Scientist, Search Like a Librarian: Information Literacy for Forensic Scientists</b><br>Jeff Teitelbaum, MLIS*  |
| 2:00 pm—2:20 pm | <b>F74</b> | <b>AI-Powered Expert Witness Report Review System: Enhancing Pre-Admissibility Quality Control to Prevent Wrongful Convictions</b><br>Melda Yazicioğlu, PhD*  |
| 2:20 pm—2:40 pm | <b>F75</b> | <b>Introducing the Responsible Artificial Intelligence Framework for Forensic Science: Developed and Applied in a New Zealand Forensic Laboratory</b><br>Janet Stacey, MSc*; Rachel Fleming, PhD; Niki Osborne, PhD                                       |
| 2:40 pm—3:00 pm | <b>F76</b> | <b>The Metaverse and the Basics of Forensic Science: A Framework for Application</b><br>Gianmarco Sirago, MD*; Paolo Visci, MD; Biagio Solarino, MD, PhD; Davide Ferorelli, MD; Alessandro Dell'Erba, MD, PhD; Annachiara Vinci, MD; Gianmarco Sirago, MD |
| 3:00 pm—3:20 pm |            | <b>BREAK</b>  |

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## Gangs/Unmanned Aircraft Systems/Virtual Reality

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Moderator: Patricia Smith, MSL

Co-Moderator: Cliff Akiyama, MPH, MA

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|-----------------|------------|--|
| 3:20 pm—3:40 pm | <b>F77</b> | <b>Walking into Uncharted Territory: Understanding the Rise of Asian Youth Gangs</b><br>Cliff Akiyama, MPH, MA*  |
| 3:40 pm—4:00 pm | <b>F78</b> | <b>Elevated Insights: The Acquisition and Implementation of Unmanned Aircraft Systems (UAS) in a State Medical Examiner's Office</b><br>Micaela Ascolese, MS*; Philip Miller, BS*; Kaylan Peterson, MS |
| 4:00 pm—4:30 pm | <b>F79</b> | <b>VR Forensic: Immersive Virtual Reality Training for Forensic Medical Practitioners—From Scene to Courtroom</b><br>Benjamin Mokdad, MD*; Benjamin Charroy, MD*; Giles Tournel, MD, PhD               |
| 4:30 pm—5:30 pm | <b>F80</b> | <b>UAS Crime Scene Videography</b><br>Gerald Baum, BA*   |

# GENERAL

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## Friday

### Poster Session

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11:30 am—1:00 pm	<b>F81</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>F82</b>	<b>The Phenomenon of Suicide Contagion: Examining Trends in Suicide in Harris County, Texas</b> Amelia Juneau, MS*
11:30 am—1:00 pm	<b>F83</b>	<b>The Role of the Forensic Anthropologist in “No Body Homicide” Cases: Exploring Case Entry in Two Current Databases</b> Amy Michael, PhD*; Robert Eckstein, PsyD; Jennifer Bengtson, PhD; Cruz Dellasanta, BA; Kylee Jedraszek, BA
11:30 am—1:00 pm	<b>F84</b>	<b>The Sound of Gunfire</b> Andrew Winter, PhD*; Peter Diaczuk, PhD*; Ashley Buchman, BS*; Frank LoSacco, MA
11:30 am—1:00 pm	<b>F85</b>	<b>A Comparative Analysis of Forensic Audit and Traditional Audit Practices: Implications for Fraud Detection</b> Tracey Heywood, MBA; Jasmine Drake, PhD; Ashraf Mozayani, PharmD*
11:30 am—1:00 pm	<b>F86</b>	<b>Understanding Time-to-Recovery: A Demographic and Spatial Analysis of Decedents in Las Vegas, Nevada</b> Elise Adams, MA*; Derek Boyd, PhD ( <i>FSF Emerging Forensic Scientist Award Oral Presentation</i> )
11:30 am—1:00 pm	<b>F87</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>F88</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>F89</b>	<b>A Forensic Inquiry Into Jean-Michel Basquiat’s Lost Subway Portfolio</b> Nicholas Petaco, MS*
11:30 am—1:00 pm	<b>F90</b>	<b>Falls From Height: Peculiarities of Injuries and Differential Diagnosis Between Accident and Assault</b> Saverio Gualtieri, MD*; Matteo Antonio Sacco, MD*; Fortunato Vincenzo Nucera, MD; Chiara Caruso, MD; Roberto Raffaele, MScGiuseppe Chiaravalloti; Pietro Tarzia, MD; Marta Chieruzzi; Pietrantonio Ricci, MD, PhD; Isabella Aquila, MD, PhD*
11:30 am—1:00 pm	<b>F91</b>	<b>Humanizing Forensic Science: Practitioner-Centered STEM Education in Title I Florida High Schools</b> Jalika Waugh, PhD*
11:30 am—1:00 pm	<b>F92</b>	<b>Injury as a Silent Witness: Forensic Medicine’s Role in Charge Determination in an Explosive Case</b> Francesco Calabrò, MD*; Francesco Saverio Romolo, PhD; Marcello Seligardi, MD*; Valentina Bugelli, MD, PhD; Beatrice Defraia, MD
11:30 am—1:00 pm	<b>F93</b>	<b>Judicial Gatekeeping: The Use of Scientific Standards and Forensic Expert Qualification in Oklahoma</b> Brittlyn Eckerd, BS*; John Mabry, JD

# GENERAL

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11:30 am—1:00 pm	<b>F94</b>	<b>The Sum of All Abbreviated Injury Scale Scores and Total Number of Injuries in Combination: A Tool for Assessing Both Overall Injury Severity and Excessive Injury</b> Anton Mittendorf, MD*
11:30 am—1:00 pm	<b>F95</b>	<b>The Impact of Finance on the Handling of Forensic Cases: The Case of the Kosovo Agency on Forensics</b> Herolind Krasniqi, MASc*; Blerim Olluri, PhD*; Sokol Dedaj, MASc
11:30 am—1:00 pm	<b>F96</b>	<b>Latent Print Evidence and Analysis</b> Jennifer McCampbell, MCS*
11:30 am—1:00 pm	<b>F97</b>	<b>Hidden in the Canvas: Isabella of Aragon and the Mona Lisa From a Forensic Perspective</b> Enrica Macorano, MD*; Angela Colucci, MD; Francesco Introna, MD

## *Friday – Session I*

### **Unidentified Remains/Forensic Investigative Genetic Genealogy (FIGG)/Crime Scene Investigators/ Evidence Management**

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Moderator: Jennifer Randolph, MSc

Co-Moderator: John Wang, PhD

8:00 am—8:20 am	<b>F98</b>	<b>A Complete Unknown: A Multimodal Approach to the Forensic Identification of Unclaimed Human Remains in the Absence of Missing Persons Reports</b> Matilde Ruju, MD*; Irene Pradelle, MD*; Luca Diani, MD; Giada Rovito, MD; Margherita Neri, PhD; Angelo Montana, PhD
8:20 am—8:40 am	<b>F99</b>	<b>Still Nameless Years Later: The Ongoing Challenge of Investigating Unidentified Remains in the Medical Examiner's Office</b> Jessica Godoy, BS*; Nicolette Sambucci, BS; Natalia Sanabria, BS
8:40 am—9:00 am	<b>F100</b>	<b>Cold Case Homicide: When All the Information Is Known But the Victim Identity—Solved 50 Years Later Using Forensic Investigative Genetic Genealogy</b> Michelle Clark, MS*; James Gill, MD
9:00 am—9:20 am	<b>F101</b>	<b>FIGG or Fingerprints? A Case Study From 1990</b> Lara Newell, MA*
9:20 am—9:40 am	<b>F102</b>	<b>A Qualitative Study of Crime Scene Investigators and Resiliency</b> Andrew Winter, PhD*
9:40 am—10:00 am	<b>F103</b>	<b>A Study on Best Practices in Evidence Management: A Preview of the NIST/NIJ Evidence Management Report</b> Vincent Desiderio, MS*; Katherine Sharpless, PhD; Melissa Taylor, BA
10:00 am—10:20 am		<b>BREAK</b>

# GENERAL

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## Tools and Assessment Measures

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Moderator: Jessica Crowson, MSFS

Co-Moderator: Cydne Holt, PhD

- 10:20 am—10:40 am      **F104**      **An Evaluation of Temperature Measurement Errors Due to Conduction of Heat Along Thermocouple Probe Sheaths and Partial Probe-Tissue Contact During Forensic Fire-Death Scenarios**  
David Silveira, MS\*
- 10:40 am—11:00 am      **F105**      **Biomechanical Analysis of an Unusual Cervical Spine Dislocation From a Swinging Metal Cable: Daruma Otoshi?**  
Stefano Palumbi, MD\*; Yuko Ishida, PhD; Toshikazu Kondo, MD, PhD; Akiko Ishigami, MD; Mizuho Nosaka, PhD; Yumi Kuninaka, MS
- 11:00 am—11:30 am      **F106**      **Child Fatality Review as a Quality Improvement Tool: Insights From a Five-Year County Analysis in Context With State and National Trends**  
Max Veltman, PhD\*; Dylan Evans, MS; Tristen Tate
- 11:30 am—1:00 pm                      **BREAK**

## Evidence From the Crime Scene

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Moderator: Rachael Schmidt, MSc

Co-Moderator: Amanda Alvarez Wright, MPA

- 1:00 pm—1:20 pm      **F107**      **From Skid to Signal: The Collection, Isolation, and Analysis of Rubber Particles From Tire Skid Marks**  
James McAleer, BS\*; John Lucchi, PhD; Matthieu Baudelet, PhD
- 1:20 pm—1:40 pm      **F108**      **Enhancing Gunshot Back Spatter With Latent Blood Reagents on Distant Horizontal Surfaces**  
Nicole Millis, MFS; Peter Valentin, PhD\*
- 1:40 pm—2:00 pm      **F109**      **A Fundamental Evaluation of Airgun Muzzle Energy Using Chronography: A Forensic Ballistics Approach to Determining Lethality and Legal Classification in the United Kingdom**  
Tolulope Abejide, MSc\*; Martin Corcoran, BSc; Kayleigh O'Brien, MSc; Omowole Adeniyi, MFS
- 2:00 pm—2:20 pm      **F110**      **Quantifying and Testing the Similarity of Breach Face Impressions**  
Hana Lee, PhD\*; Alicia Carriquiry, PhD
- 2:20 pm—2:40 pm      **F111**      **A Comparison Study of Clothing Severance Damage Resulting From Kitchen Knife Sharp Force Trauma in Stabbing Offense Investigations**  
Leisa Nichols-Drew, MSc\*
- 2:40 pm—3:00 pm      **F112**      **The Evolution of VOC Profiles During Early Animal Decomposition**  
Fantasia Whaley, MSFS\*; Sandy Dominguez; Lauryn DeGreeff, PhD; Joel Fuentes Carrasco, BS  
Emily Millan, BS
- 3:00 pm—3:20 pm                      **BREAK**

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## General Session: Friday Afternoon I

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Moderator: Scott Rohde, BS, MBA

Co-Moderator: Tolulope Abejide, MSc

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| 3:20 pm—3:40 pm | <b>F113</b> | <b>Operational K9 Deaths: A Look at the Past 24 Years</b><br>Cheryl Nelson, DVM*  |
| 3:40 pm—4:00 pm | <b>F114</b> | <b>Cadaver Dogs in Deep Water: Evolving Forensic Tools for Aquatic Human Remains Detection</b><br>Paul Micah Johnson, PhD*  |
| 4:00 pm—4:20 pm | <b>F115</b> | <b>A Comparative Study to Determine Training Aids for Human Remains Detection Dogs</b><br>Lorna Irish, PhD*; Sarah Sandle, BSc; Shari Forbes, PhD; Adee Schoon, PhD;<br>Jerushah Mulvany, BSc |
| 4:20 pm—4:40 pm | <b>F116</b> | <b>Prone Restraint Cardiac Arrest: Physiology and Epidemiology</b><br>Alon Steinberg, MD*   |
| 4:40 pm—5:00 pm | <b>F117</b> | <b>Driving Accountability Through Forensic Integration: A Model for Investigative Transformation in Urban Policing</b><br>John R. Herzog, III, MS*; Rana A. DellaRocco, MS*                   |
| 5:00 pm—5:30 pm | <b>F118</b> | <b>The Use of Forensic Methods for Art Authentication: The Picasso Project</b><br>Jennifer McCampbell, MCS*   |

## Friday—Session II

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### Laboratory Management/Quality Control/Standards/Fingerprints on Leather Surfaces

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Moderator: Krista Troup, MS

Co-Moderator: Amanda Alvarez Wright, MPA

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|-------------------|-------------|--|
| 8:00 am—8:20 am   | <b>F119</b> | <b>WITHDRAWN</b>   |
| 8:20 am—8:40 am   | <b>F120</b> | <b>WITHDRAWN</b>   |
| 8:40 am—9:00 am   | <b>F121</b> | <b>Forensic Foundations Revisited: Insights From NIST's Foundation Studies Program</b><br>Kelly Sauerwein, PhD*; Sandra Koch, PhD*                                 |
| 9:00 am—9:20 am   | <b>F122</b> | <b>Standards Synergy: Collaborate to Elevate</b><br>Vincent Desiderio, MS*; Allison Getz, MS*  |
| 9:20 am—9:40 am   | <b>F123</b> | <b>WITHDRAWN</b>   |
| 9:40 am—10:00 am  | <b>F124</b> | <b>Hide and Seek: A Pseudo Operational Study of Fingerprint Development and Enhancement on Leather Surfaces to Assist Practitioners</b><br>Leisa Nichols-Drew, MSc |
| 10:00 am—10:20 am |             | <b>BREAK</b>   |

# GENERAL

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## Laboratory Management/Quality Control/Standards

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Moderator: Tolulope Abejide, MSc

Co-Moderator: Jalika Waugh, PhD

- 10:20 am—10:40 am     **F125**     **Assessing the Landscape of Independent Forensic Consultation: A Cross-Disciplinary Survey of Compensation and Practice**  
Diana Messer, PhD\*; Stephanie Cole, PhD; An-Di Yim, PhD; Sara Getz, PhD
- 10:40 am—11:00 am     **F126**     **From Metrics to Meaning: Assessing Quality Management in a Medical Examiner Office**  
Cassandra Rock, MFS\* Theodore Sanford, BA; Mandy Tinkey, MFS; Lindsay Kotchey, MSFS
- 11:00 am—11:30 am     **F127**     **Building a Quality Culture at the Laboratory**  
Rachel Duke, MS\*
- 11:30 am—1:00 pm                     **BREAK**

## Mental Health/Microbiology/Victim Typology in Homicide Cases

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Moderator: Tracilyn Nakatsuka, B

Co-Moderator: Maria Hiott, BS

- 1:00 pm—1:20 pm     **F128**     **From Evidence to Action: Navigating the Complexities of Animal Hoarding Cases**  
Becky Morrow, DVM\*
- 1:20 pm—1:40 pm     **F129**     **WITHDRAWN**
- 1:40 pm—2:00 pm     **F130**     **Characterizing the Human Decomposition Hotspot: Integrating Soil Biogeochemistry and Microbiology**  
Lois Taylor, PhD\*; Jennifer DeBruyn, PhD
- 2:00 pm—2:20 pm     **F131**     **Decompositional Impact on Soil Microbiomes: Advancing Postmortem Interval Estimation in Petroleum-Impacted Environments**  
Meiko Thompson, PhD\*; Brittney Sylvester; Latavia Williams; Georgia Williams, MS
- 2:20 pm—2:40 pm     **F132**     **Utilizing Honey Bees (*Apis Mellifera*) as a Surveillance and Monitoring Technique for Bacterial Pathogens in Specific Environments**  
Jordan Walter, MS; James Creecy, PhD\*
- 2:40 pm—3:00 pm     **F133**     **Inter-Rater Reliability and Practical Utility of Five Victim Typologies in Homicide Case Analysis**  
Adriana Graybeal, PhD\*; Jason Beaman, DO\*; Ashley Keener, PhD\*; Reagan Gill, DO
- 3:00 pm—3:20 pm                     **BREAK**

# GENERAL

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## Toxicology/Ethics/Honor Killings

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Moderator: Jennifer Jacobi, EdD

Co-Moderator: Patricia Smith, MSL

3:20 pm—3:40 pm	<b>F134</b>	<b>WITHDRAWN</b>
3:40 pm—4:00 pm	<b>F135</b>	<b>WITHDRAWN</b>
4:00 pm—4:20 pm	<b>F136</b>	<b>Forensic Ethics in Practice: Bridging Global Standards, Skills, and Moral Responsibility</b> Giuseppina Seppini, MSN*; Ippolito Iolanda, MSc
4:20 pm—4:40 pm	<b>F137</b>	<b>My Report Says What?! A Deep Dive Into Documents Fabricated by Individuals Outside of the Laboratory</b> Taylor Shafirovich, MS*
4:40 pm—5:00 pm	<b>F138</b>	<b>WITHDRAWN</b>

# JURISPRUDENCE

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## Thursday

### Poster Session

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- 11:30 am—1:00 pm      **G1**      **An Injury Causation Analysis in Low-Impact Collisions: A Case-Based Application of Bradford Hill Principles and the Etherton Legal Standard**  
Alireza Bagherian, DC \*
- 11:30 am—1:00 pm      **G2**      **Standards for Managing Cases of Missing Persons and Unidentified Human Remains in Conflict: The Effects of Human Rights Jurisprudence on International Humanitarian Law**  
Maria Nektaria Antoniou, LLM\*
- 11:30 am—1:00 pm      **G3**      **The Correlation of State-Level Autopsy Laws and Infant Autopsy Rates: A Quality Assessment of the United States Medicolegal Death Investigation Systems**  
Alexis Orbeta, BS\*; Tal Simmons, PhD; Christopher Ehrhardt, PhD; Jenise Swall, PhD; Renee Robinson, MD
- 11:30 am—1:00 am      **G4**      **The Role of the Autopsy in Judicial Investigations—A Source of Evidence and an Essential Guide for the Formulation of Appropriate Charges: An Analysis of Three Cases**  
Federica Genchi, MD\*; Luigi Cipolloni, MD, PhD; Andrea Cioffi, MD; Camilla Cecannecchia, MD; Giovanni Pollice, MD; Donatella Curtotti, PhD

### Emerging DNA Technologies

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Moderator: Robert Smith, JD

Co-Moderator: Dave Pollock

- 8:30 am—9:00 am      **G5**      **The Rapid Acceptance of Rapid DNA: The Implications on the Field of Forensic Science, the Practitioner, and the Legal Professional**  
Lisa Montanez, MSFS\*
- 9:00 am—9:30 am      **G6**      **One State's Approach to Expanded Use of Rapid DNA Technology for CODIS Search of Crime Scene Samples**  
Jarrah R. Kennedy, MS\*; Leigh Tomlin, JD; Lynn Garcia, JD; Gary Molina, BA; Brady Mills, MS; Brandon Letts, PhD
- 9:30 am—9:50 am      **G7**      **The Successful Development of a DNA Profile From the Quantisal Oral Fluid Collection Device**  
Jennifer Limoges, MS\*; Lola Murray, MS; Kaitlin Fidd, BS; Rebecca Love, MS; Margaret Raydo, BS; Carrie McGinnis, MPA
- 9:50 am—10:10 am      **G8**      **WITHDRAWN**
- 10:10 am—10:30 am      **G9**      **Forensic Likelihood Ratios From Low-Coverage Whole Genome Sequencing**  
Dan Krane, PhD\*; Ferial Ouerghi, BS; Doc Edge, PhD
- 10:30 am—10:45 am      **BREAK**

### Statistics and Reporting

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Moderator: Gail Groy, JD

- 10:45 am—11:30 am      **G10**      **Likelihood Ratios and Belief Updating**  
Thomas Busey, PhD\*
- 11:30 am—12:00 pm      **G11**      **A Movement Toward Greater Clarity and Transparency in Firearms Comparison Reporting in Texas: A NIST Collaboration**  
Lynn Garcia, JD\*; Henry Swofford, PhD\*; Robert Smith, JD\*; Steven Lund, PhD

# JURISPRUDENCE

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12:00 pm—1:30 pm

**BREAK**

## Activity Level Propositions

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Moderator: Maria Nektaria Antoniou, LLM

1:30 pm—2:00 pm

**G12**

**“U Can’t Touch This!” Examining Activity Level Proposition Evidence Through a Constitutional Lens**

Allison Lewis, JD\*

2:00 pm—2:45 pm

**G13**

**Activity Level Testimony in United States Courts: The Problem of Proof**

Ted Hunt, JD\*

2:45 pm—3:15 pm

**G14**

**Help vs. Harm: What Should Be the Role of Activity-Level Evaluations in United States Courts?**

J.D. Schmid, JD\*

3:15 pm—3:30 pm

**BREAK**

## Problems in the Digital Age

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Moderator: Allison Lewis, JD

3:30 pm—3:50 pm

**G15**

**The Perilous Use of GenAI in Legal Briefs, Non-Expert Analysis, and Police Reports**

Carole Chaski, PhD\*; Gil Sapir, JD

3:50 pm—4:10 pm

**G16**

**AI in Police Reports: Due Process and Disclosure Obligations**

Gil Sapir, JD\*; Jay Zager

4:10 pm—4:30 pm

**G17**

**Scientific Support for DNA “Probabilistic Genotyping” Evidence Depends on Testing Lab-Created Mixtures, Although Inadequate**

Charles H. Brenner, PhD\*

4:30 pm—5:00 pm

**G18**

**New FRE 707: AI Meets *Daubert***

Donald Shelton, PhD\*

## Ethics, Peer Review, and Expert Testimony

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Moderator: Paul Messner, JD

5:00 pm—6:00 pm

**G19**

**You Be the Judge: Admitting Expert Testimony When Ethics Conflict With Peer Review**

William Nuzum, JD\*; Stephanie Domitrovich, PhD\*

# JURISPRUDENCE

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## Friday

### Drug Chemistry, Toxicology, and the Importance of Independence

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Moderator: Michelle Vaira, JD

Co-Moderator: Natasha Jean-Baptiste

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|-------------------|------------|---|
| 8:30 am—9:00 am   | <b>G20</b> | <b>Understanding the Use and Challenges of GC/MS in Fentanyl Testing in Drug Cases in New York Criminal Courts (With Discovery, Trial, and Policy Implications)</b><br>Molly Kalmus, JD*; Michelle Miranda, PhD; Sarah Chu, PhD |
| 9:00 am—9:45 am   | <b>G21</b> | <b>Errors in Toxicology Testing and the Need for Full Discovery</b><br>Aaron Olson, BS*   |
| 9:45 am—10:05 am  | <b>G22</b> | <b>An Autopsy of the UIC-AFTL Crime Lab THC Marijuana Cover-Up</b><br>Donald Ramsell, JD*; Gil Sapir, JD  |
| 10:05 am—10:25 am | <b>G23</b> | <b>An Off-Duty Officer Fatal Traffic Collision Leads to Misdemeanor Negligent Manslaughter Charges</b><br>Kurt Weiss, MSME*   |
| 10:25 pm—10:40 am |            | <b>BREAK</b>  |

### Ethics, Justice and Postconviction Relief

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Moderator: Mary Dayton, JD

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|-------------------|------------|---|
| 10:40 am—11:10 am | <b>G24</b> | <b>An Argentine Prosecutor's Death: Ten Years of Impunity—The Prosecutor's Report 2025</b><br>Maria Ciruzzi, PhD*   |
| 11:10 am—11:30 am | <b>G25</b> | <b>Eyewitness Identification in Civil and Common Law Countries in the Perspective of Standardization and Internationalization of Criminal Proceedings</b><br>Dariusz Wilk, PhD* |
| 11:30 am—12:00 pm | <b>G26</b> | <b>Practical Recommendations for Investigating Shifting Science in Post-Conviction Relief Cases</b><br>Terry-Dawn Hewitt, LLM*  |
| 12:00 pm—1:30 pm  |            | <b>BREAK</b>  |

### Reviewing Past Practices

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Moderator: JD Schmid, JD

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|-----------------|------------|---|
| 1:30 pm—2:15 pm | <b>G27</b> | <b>Forensic Testimony Errors in a Death Penalty Case: Lessons for Science, Law, and Justice</b><br>Tiffany Roy, JD, MSFS*   |
| 2:15 pm—3:00 pm | <b>G28</b> | <b>The Future Involves Going Back to the Basics: Post-Conviction Cases That Recognize Wrongful Convictions Arise From Subsequently Discredited Science Also Suggest a Need to Examine Fundamentals</b><br>Jane Eggers, JD, MSSW*; Christen Chipman, MSc |

# JURISPRUDENCE

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- 3:00 pm—3:20 pm      **G29**      **The “Past” Under Investigation: New Investigative Methodologies at Crime Scenes and Their Impact on “Definitive” Criminal Trials in Italy**  
Wanda Nocerino, PhD\*; Angela Procaccino, PhD; Stefania De Simone, PhD; Christian Pallante;  
Guido Colaiacovo, PhD; Alessandro Valenti, PhD

## Disclosure and Discovery

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Moderator: Ashfaq Ahmed Kharal, PhD

Co-Moderator: Clinton Hughes, JD

- 3:20 pm—3:50 pm      **G30**      **Borrowing From Bioethics: Lessons for Forensic Science on Disclosure, Correction, and Privacy**  
Sarah Chu, PhD\*
- 3:50 pm—4:10 pm      **G31**      **WITHDRAWN**
- 4:10 pm—4:40 pm      **G32**      **Beyond the Lab Coat: Understanding ISO 21043’s Reach**  
Dana Delger, JD\*; John Paul Jones, MBA\*
- 4:40 pm—5:15 pm      **G33**      **Back to Basics: *Daubert*, Abusive Head Trauma, and Pediatric Short Falls**  
Kathleen Pakes, APM\*

# ODONTOLOGY

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## *Wednesday*

### Poster Session

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- 11:30 am—1:00 pm     **H1**     **3D Palatal Rugae Superimposition for Human Identification**  
Andrea Pase, DDS; Zecca Piero Antonio, DDS; Emanuele Paoletto; Mario Torreggianti, MSc;  
Marco Brady Bucci, DDS; Emilio Nuzzolese, PhD\*
- 11:30 am—1:00 pm     **H2**     **WITHDRAWN**
- 11:30 am—1:00 pm     **H3**     **The Effects of Orthodontic Treatments on Palatoscopy**  
Mehmet Ali Kılıçarslan, PhD\*; Ersungül Er, PhD; Merve Berika Kadioğlu, PhD; Kaan Orhan,  
PhD
- 11:30 am—1:00 pm     **H4**     **The Tooth, the Whole Tooth, and Nothing But the Tooth: Forensic Odontology in Car Fire  
Victim Identification**  
Howard Cooper, DDS\*

## *Thursday—Session I*

### From Case Resolution to Future Standards

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Moderator: Aaron Jolivet

Co-Moderator: Mariko McCall, DDS

- 8:30 am—9:00 am     **H5**     **The Maura Murray Cold Case: Revisiting Dental Charting for New Leads**  
Grace Chung, DDS\*
- 9:00 am—9:20 am     **H6**     **The 2007 Murder Case of Riley Ann Sawyers: A Forensic Triumph in Identification**  
Jeanne Geer, DDS\*
- 9:20 am—9:40 am     **H7**     **Bitemarks—Vital Reaction, Permanent Injury, and Position of Biter**  
Richard Souvion, DDS\*
- 9:40 am—9:50 am     **BREAK**
- 9:50 am—11:00 am     **H8**     **Shaping the Future of Forensic Odontology Through Standardization**  
Kenneth Aschheim, DDS\*; Cristiana Palmela Pereira, PhD\*; Kathleen Kasper, DDS\*;  
Lindsay Spears, DDS\*; Raymond Miller, DDS\*; Phyllis Ho, DDS\*; Richard Fixott, DDS\*

### Modernizing Methods in Forensic Odontology

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Moderator: Aaron Jolivet

Co-Moderator: Mariko McCall, DDS

- 11:00 am—11:30 am     **H9**     **Revisiting the Demirjian Legacy: A Comparative Analysis of Original and ISO Tooth  
Development Staging Using the Historic Demirjian Radiographic Collection**  
Wei Wu, DMD\*; Corinne D'Anjou, DMD\*; Derek Draft, DDS\*; Normand Bach, MSc;  
Pierre Rompré, MSc; Katrina Kontaxis, DMD
- 11:30 am—1:00 pm     **BREAK**

# ODONTOLOGY

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## The Spectrum of Age Assessment

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Moderator: Sarah Canty, DMD

Co-Moderator: Megan Lenahan, DDS

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|-----------------|------------|--|
| 1:00 pm—1:20 pm | <b>H10</b> | <b>Statistical Basis for Forensic Dental Identification Using Independent Feature Probability</b><br>James Fancher, DDS, MA, PhD*  |
| 1:20 pm—1:40 pm | <b>H11</b> | <b>Integrated Forensic Age Estimation in Subadults Through a Machine Learning Combination of Dental and Skeletal Data</b><br>Ilenia Bianchi, PhD*; Giorgio Oliva, DMD; Giulia Vitale, DMD; Francesco Pradella, DMD; Martina Focardi, MD; Vilma Pinchi, PhD |
| 1:40 pm—2:25 pm | <b>H12</b> | <b>Dental Age Assessment for Victim Stratification in Closed Population, Multiple-Fatality Incidents</b><br>John Nase, DDS*  |
| 2:25 pm—2:45 pm | <b>H13</b> | <b>Artificial Intelligence Methods for Estimating the Age of Unaccompanied Minors</b><br>Javier Venema, MSc; Stefano De Luca, PhD; Pablo Mesejo, PhD; Oscar Ibáñez, PhD; David Navega, PhD*  |
| 2:45 pm—3:00 pm |            | <b>BREAK</b>   |

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## Technological and Historical Perspectives in Forensic Dentistry

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Moderator: Sarah Canty, DMD

Co-Moderator: Megan Lenahan, DDS

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|-----------------|------------|--|
| 3:00 pm—3:20 pm | <b>H14</b> | <b>Victim Identification of a Mass Fatality Event</b><br>Howard Cooper, DDS*   |
| 3:20 pm—3:40 pm | <b>H15</b> | <b>Paul Revere: Silversmith, Spy, Dentist, Coroner</b><br>Denise Murmann, DDS*   |
| 3:40 pm—4:00 pm | <b>H16</b> | <b>Forensic Odontology in Battlefield Archaeology: An Analysis of Revolutionary War Remains From Red Bank Battlefield in New Jersey</b><br>Stuart Alexander, DMD*; Anna Delaney, DCrim |
| 4:00 pm—4:30 pm | <b>H17</b> | <b>An Illinois Missing Person Cold Case—A Resolve After 42 Years: The Case of Karen Schepers</b><br>David Wold, DDS*   |

## Thursday—Session II

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## The Residue of Case Work: Psychological and Toxicological Traces in Forensic Odontology

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Moderator: Victoria McGowen, DMD

Co-Moderator: Matthew Merfeld, DDS

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|------------------|------------|---|
| 8:30 am—9:45 am  | <b>H18</b> | <b>The Unseen Burden: When Evidence Leaves Its Mark on the Forensic Odontologist</b><br>Kathryn Seigfried-Spellar, PhD*; John Kenney, DDS*; Raymond Miller, DDS*; Emilio Nuzzolese, PhD*  |
| 9:45 am—10:05 am | <b>H19</b> | <b>Unveiling Drug Traces in Teeth: A Forensic Study on Methadone, Cocaine, and THC Orally Assumed</b><br>Ilenia Bianchi, PhD*; Emma Croce, MSc; Alexandra Dimitrova, MSc; Martina Focardi, MD; Fabio Vaiano, PhD; Vilma Pinchi, PhD |

# ODONTOLOGY

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10:05 am—10:30 am

**BREAK**

## **Forensic Odontology: A Spectrum**

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Moderator: Victoria McGowen, DMD

Co-Moderator: Matthew Merfeld, DDS

10:30 am—10:50 am

**H20**

**DAE QuickSheets—The Next Generation**

Derek Draft, DDS\*

10:50 am—11:10 am

**H21**

**The Identification of German Nurses Captured by the Viet Cong**

Richard Fixott, DDS\*

11:10 am—11:30 am

**H22**

**Canine Injuries: A Forensic Analysis of Bitemarks in a Fatal Dog Attack**

James Goodrich, FFOMP\*

11:30 am—1:00 pm

**BREAK**

## **Beyond the Legacy: Modern Methodology In Forensic Odontology**

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Moderator: Adrian Avram, DDS

Co-Moderator: Jeremy Thompson, DDS

1:00 pm—1:45 pm

**H23**

**Dental Autopsy Incision and Resection Techniques: A Review**

John Nase, DDS\*

1:45 pm—2:05 pm

**H24**

**Advancements in Forensic Odontology: Anatomage Table and Metaverse Innovations**

Corrado Cali', PhD; Claudia Viteritti, MD\*; Emilio Nuzzolese, PhD\*

2:05 pm—2:25 pm

**H25**

**Artificial Intelligence: Elevating Forensic Odontology Beyond Traditional Boundaries**

Kenneth Aschheim, DDS\*; Guy Kaplan, MSc; Ben Cohen, BSc

2:25 pm—2:45 pm

**H26**

**WITHDRAWN**

## ***Friday***

### **Quantitative Methods In Bitemark and Dental Identification**

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Moderator: Jeremy Thompson, DDS

Co-Moderator: Adrian Avram, DDS

8:30 am—9:00 am

**H27**

**Forensic Odontology Identification: Cases That “Left a Lasting Impression”**

Walter Zoller, DMD\*

9:00 am—9:20 am

**H28**

**A Tri-Dimensional Pattern Analysis of Foodstuff Bite Impressions A Quantitative Method of Comparison**

Enrica Macorano, MD\*; Valeria Santoro, MD, PhD; Mariagrazia Guerra, PhD; Luigi Maria Galantucci; Francesco Introna, MD

9:20 am—9:40 am

**H29**

**Shark Tales: A Fatal Animal Bite Case Presentation**

James Goodrich, FFOMP\*

# ODONTOLOGY

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9:40 am—10:00 am	<b>H30</b>	<b>A Scientific Mathematical Model to Define the Class Characteristics of the Human Anterior Maxilla</b> Kenneth Aschheim, DDS*; Botond Simon, PhD; János Vág, DSc
10:00 am—10:20 am	<b>H31</b>	<b>Identification in Multiple Comparison Scenarios Guided by Automatic 3D-2D Dental Image Superimposition</b> Oscar Ibáñez, PhD*; Antonio D. Villegas, MSc; Guillermo Ramírez-García, MASc; Oscar Córdón, PhD; Daniel Pérez-Mongioli, PhD; Teresa Pinho, PhD
10:20 am—10:30 am		<b>BREAK</b>

## Advances in Comparative Analysis for Forensic Odontology

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Moderator: Luke Klinker

Co-Moderator: Sarah Canty, DMD

10:30 am—11:00 am	<b>H32</b>	<b>Digital Mandibles: The Role of 3D Printing in Personalized Jaw Reconstruction</b> Shalini Gupta, PhD*
11:00 am—11:20 am	<b>H33</b>	<b>The Identification of Bodies Using the Automated Search Notice in Forensic Odontology in France</b> Gwenola Drogou Saout, DDS*
11:20 am—1:00 pm		<b>BREAK</b>

## Forensic Odontology Metrology

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Moderator: Aaron Jolivet

Co-Moderator: Megan Lenahan, DDS

1:00 pm—1:20 pm	<b>H34</b>	<b>When Time Is of the Essence: Establishing DVI Facilities During Warfare</b> Esi Sharon, DMD*; Tzipi Kahana, PhD
1:20 pm—1:40 pm	<b>H35</b>	<b>How a CT Screen Capture Assisted in the Identification of an Individual</b> Mark Porco, DDS*
	<b>H36</b>	<b>WITHDRAWN</b>
1:40 pm—2:00 pm	<b>H37</b>	<b>WITHDRAWN</b>

# PATHOLOGY/BIOLOGY

## Wednesday

### Poster Session

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|------------------|------------|---|
| 11:30 am—1:00 pm | <b>I1</b>  | <b>A Forensic Insight Into a Peculiar Case of Autoerotic Asphyxiation</b><br>Saverio Gualtieri, MD*; Matteo Antonio Sacco, MD*; Maria Cristina Verrina, MD*;<br>Maria Daniela Monterossi, MD; Gioele Grimaldi, MD; Mattia Solano, MD*;<br>Giuseppe Chiaravalloti; Marco Cisa; Santo Gratteri, MD, PhD; Isabella Aquila, MD, PhD*                                    |
| 11:30 am—1:00 pm | <b>I2</b>  | <b>WITHDRAWN</b>  |
| 11:30 am—1:00 pm | <b>I3</b>  | <b>Drowning in Big Data: An Evidence-Based Forensic Assessment of Lung Weights in Drowning Cases, Modeled on a Database of Over 22,500 Autopsies</b><br>Johannes Busch, PhD*; Carl Johan Wingren, PhD*  |
| 11:30 am—1:00 pm | <b>I4</b>  | <b>Incidental Central Pontine Myelinolysis in Chronic Ethanolism: A Case Report</b><br>Shera Wanner, MD*; Marcus Conley, BS; Jordan Taylor, MD; Christopher Liverman, MD, PhD;<br>Marcus Conley, BS*  |
| 11:30 am—1:00 pm | <b>I5</b>  | <b>Unexpected Fatal Hemoperitoneum: A Case of Spontaneous Non-Traumatic Omental Hemorrhage</b><br>Kaylee Fox, DO*; Patrick Lantz, MD  |
| 11:30 am—1:00 pm | <b>I6</b>  | <b>Living With the Dead: Harris County's Investigations Into Life Alongside the Deceased</b><br>Bethany Bless, MSc*; Hannah Jarvis, MRCS  |
| 11:30 am—1:00 pm | <b>I7</b>  | <b>Maternal Deaths Associated With Hyperemesis Gravidarum</b><br>Titash Biswas, BS*; Tatiana Bihun, MD; Joseph Prahlow, MD  |
| 11:30 am—1:00 pm | <b>I8</b>  | <b>Nothing Is as It Seems: A Differential Diagnosis Between Postmortem Animal Predation and Caustic Ingestion in a Case of Complex Suicide</b><br>Cristina Elia, MD*; Elena de Laurentiis, MD*; Tommaso Livieri, MD; Calogero Cuttaia, MD;<br>Francesco Orsini, MD; Raffaele Cirillo, MD*; Alessandro Santurro, MD, PhD*;<br>Roberta Bibbò, MD; Chiara Fabrello, MD |
| 11:30 am—1:00 pm | <b>I9</b>  | <b>Opioid-Induced Constipation With Massive Colonic Dilation and Stercoral Colitis: A Rare Autopsy Finding in Fentanyl Overdose</b><br>John Hu, MD, PhD*; Afifa Bhutta, MD; Andrea Oeinck, DO   |
| 11:30 am—1:00 pm | <b>I10</b> | <b>Tracing the Ear to the Heart: Frank's Sign as a Forensic Marker in 14 Years of Autopsy-Based Cardiac Deaths</b><br>Enrica Macorano, MD*; Francesco Introna, MD   |
| 11:30 am—1:00 pm | <b>I11</b> | <b>CDT and Alcohol Abuse: A Metabolomic Perspective</b><br>Alberto Chighine, MD, PhD*; Emanuela Locci, PhD; Giacomo Musile, PhD;<br>Franco Tagliaro, MD, PhD; Ernesto d'Aloja, MD, PhD; Nadia Porpiglia, PhD  |
| 11:30 am—1:00 pm | <b>I12</b> | <b>On Thin Ice: The Frozen Facts</b><br>Jacob Teigen, BA*; Grace Blair, BS; Susan Roe, MD; Selly Strauch, MD; Wai Szeto, MD   |
| 11:30 am—1:00 pm | <b>I13</b> | <b>Estimating the Minimum Postmortem Interval: The Role of Forensic Entomology in Outdoor Cases in Central Italy</b><br>Luca Manelli, PhD; Marcello Seligardi, MD*; Valentina Bugelli, MD, PhD; Sara Bortolini, PhD   |

# PATHOLOGY/BIOLOGY

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- 11:30 am—1:00 pm **I14** **Identifying the Transition From Antemortem to Postmortem Odor in Cadavers in an Outdoor Environment**  
Darshil Patel, PhD\*; Wesley Burr, PhD; Shari Forbes, PhD; Benoit Daoust, PhD
- 11:30 am—1:00 pm **I15** **The Diagnostic Value of Tissue Detection of Aquatic Bacteria (*Aeromonas* and *Vibrio*) in Death by Drowning by PCR and the Metagenomic Approach**  
Claire Villard, MD\*; Mylène Toubiana, PhD; Estelle Jumas-Bilak, MD, PhD; Pierre-Antoine Peyron, MD, PhD
- 11:30 am—1:00 pm **I16** **The Impact of Substance Use Disorders on Postmortem Microbiome Signatures**  
Christina Harris, BS\*; Olivia Willoughby, BS; Gulnaz Javan, PhD; Silvia Visonà, MD, PhD
- 11:30 am—1:00 pm **I17** **Tissue-Specific Protein Degradation in Human Autopsy Cases: A Comparative Study for Postmortem Interval Estimation**  
Laura Flachberger, MSc; Stefan Pittner, PhD; Fabio Monticelli, PhD; Peter Steinbacher, PhD\*
- 11:30 am—1:00 pm **I18** **A Novel Approach to Estimate the Postmortem Submersion Interval Using Barnacles and Drift Trajectories: A Mediterranean Study**  
Beatrice Spadaro, MD\*; Anna Messina, MD; Daniela Sapienza, PhD; Elvira Ventura Spagnolo, MD; Roberta Somma, PhD; Salvatore Giacobbe, PhD
- 11:30 am—1:00 pm **I19** **Body Fluid Proteomics of DNA Extraction Waste Products**  
Daniella Corene Luistro, MSFS\*; Glendon Parker, PhD; Kyle Burk, MS
- 11:30 am—1:00 pm **I20** **Forensic Botany in Postmortem Interval Estimation: The Current State and Future Perspectives**  
Alessandro Pasquale Tarallo, MD\*; Matteo Antonio Sacco, MD\*; Maria Cristina Verrina, MD\*; Luca Calanna, MD; Jasmine Calafiore, MD; Chiara Caruso, MD; Aida Iaconetta; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **I21** **Determining the Utility of Radio Frequency Identification (RFID) Technology for Disaster Victim Identification (DVI)**  
Makena McLean; Vienna Lam, MA; Megan Bassendale, MSc\*; Gail Anderson, PhD
- 11:30 am—1:00 pm **I22** ***Lucilia Coeruleiviridis* (*Diptera: Calliphoridae*) as a Primary Blow Fly on Carrion in East Alabama**  
Kianna Harris, BSc; Gulnaz Javan, PhD; Jonathan Parrott, PhD\*
- 11:30 am—1:00 pm **I23** **Resource Quality and Its Effects on the Developmental Stages in *Dermestes Maculatus*: Implications for Postmortem Interval Estimations**  
Maria Zamora\*; Jennifer Rosati, PhD
- 11:30 am—1:00 pm **I24** **Shifting Sands: A Longitudinal Study of Changes in Soil Microbial DNA in Relocated Remains in a Desert Environment**  
Katelyn Bolhofner, PhD; Pamela Marshall, PhD\*

# PATHOLOGY/BIOLOGY

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## Thursday

### Poster Session

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11:30 am—1:00 pm	<b>I25</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>I26</b>	<b>Pancarditis With Concurrent Metastatic Adenocarcinoma of the Colon: A Case Report and Review of the Literature</b> Mira Basuino, DO*; Neil Haycocks, MD, PhD
11:30 am—1:00 pm	<b>I27</b>	<b>Sudden Death Due to Arrhythmogenic Mitral Valve Prolapse: A Case-Based Study From a Large Urban Medical Examiner's Office</b> Abdel Rahman Qabaja, MBBS*; Lorenzo Gitto*
11:30 am—1:00 pm	<b>I28</b>	<b>A Case of Multiple Silent Steam Pops During Radiofrequency Ablation Leading to Cardiac Rupture</b> Marco Parenti, MD*; Greta Seveso, MD*; Gulnaz Javan, PhD; Silvia Visonà, MD, PhD; Luca Tajana, MD; Giovanni Cecchetto, MD, PhD
11:30 am—1:00 pm	<b>I29</b>	<b>A Hemorrhage in the Atrioventricular Septum Caused by Infective Endocarditis</b> Mio Okada, MD*; Shigeki Tsuneya, MD, PhD; Yohsuke Makino, MD, PhD; Taka-Aki Matsuyama, MD, PhD
11:30 am—1:00 pm	<b>I30</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>I31</b>	<b>Not Everything Is What it Seems: A Case Report of Developmental Cardiac Defects Masquerading as Neglect</b> Christian Perez-Torres, MD*; Amy Tharp, MD
11:30 am—1:00 pm	<b>I32</b>	<b>Not Just Drowning: Malignant Arrhythmia and Involuntary Submersion in a Young Male</b> Alessandro Nicolosi, MD*; Simona Calabrese, MD*; Alessio Asmundo, PhD; Daniela Sapienza, PhD; Vincenzo Cianci, MD; Cristina Mondello, PhD
11:30 am—1:00 pm	<b>I33</b>	<b>A Postmortem Diagnosis of PAU Rupture in the Ascending Aorta</b> Vincenzo Cianci, MD*; Beatrice Spadaro, MD; Alessio Asmundo, PhD; Daniela Sapienza, PhD; Lorenzo Tornese, MD; Cristina Mondello, PhD*
11:30 am—1:00 pm	<b>I34</b>	<b>Sudden Cardiac Death in Undiagnosed Late Stage Pompe Disease</b> Kenna Saiidi, BS*; Tracy Wadsworth, MD; Lorenzo Gitto
11:30 am—1:00 pm	<b>I35</b>	<b>Sudden Death in a Two-Year-Old Child With Suspected Abuse: The Key Role of Forensic Pathology in the Differential Diagnosis</b> Irene Pradelle, MD*; Matilde Rujju, MD*; Luca Diani, MD; Biagio Solarino, MD, PhD; Giada Rovito, MD; Letizia Alfieri, MD, PhD; Margherita Neri, PhD
11:30 am—1:00 pm	<b>I36</b>	<b>The Correlation of Biomarkers and Cardiac Dimensions in Sudden Cardiac Death (SCD)</b> Matteo Antonio Sacco, MD*; Valerio Riccardo Aquila, PsyD; Saverio Gualtieri, MD*; Aurora Princi, MD*; Maria Eugenia Caligiuri, MEng; Alessandro Schettini; Federica Riillo, MD; Santo Gratteri, MD, PhD; Isabella Aquila, MD, PhD*

# PATHOLOGY/BIOLOGY

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- 11:30 am—1:00 pm **I37** **Understanding Cause and Manner of Death in the Transgender, Non-Binary, and Gender-Incongruent Community**  
Sonia Kominek, MA\*; Rhonda Mittenzwei, MD
- 11:30 am—1:00 pm **I38** **DNA on a Deadline: Interagency Cooperation for Genetic Testing of Unidentified Human Remains**  
Kiana Miller, BS\*; Andrew Seidel, PhD; Carri Gordon; Brian George
- 11:30 am—1:00 pm **I39** **WITHDRAWN**
- 11:30 am—1:00 pm **I40** **A Comparison of Sample Pretreatment and DNA Extraction Methods From Human Ribs**  
Daniel Arend, BS\*; Ethan Smith, MS
- 11:30 am—1:00 pm **I41** **Pre-Analytical Barriers to Postmortem Invitae Testing: A Retrospective Review of Genetic Test Failures and Successes**  
Manisha Bastola, MD\*; Patrick Hansma, DO; Victoria Roby, MS
- 11:30 am—1:00 pm **I42** **A Comparison of DNA Quality in Gray and White Matter of the Brain**  
Dong Yeon Lee, BS; Ga Eun Kim, MS\*; Moon-Young Kim, MD, PhD; Eun-Byoul Jung, BS; Eugene Choi, MD; Chae Min Lee, BS; Im Soyoun, MS
- 11:30 am—1:00 pm **I43** **Elder Abuse and Long-Term Health Outcomes: A Comprehensive Meta-Analytic Review**  
Antonietta Porzio, MD\*; Maria Grazia Violante; Carlo Pietro Campobasso, MD, PhD; Paola Ciamarra, MD; Ignazio Grattagliano, PhD; Graziamaria Corbi, PhD
- 11:30 am—1:00 pm **I44** **WITHDRAWN**
- 11:30 am—1:00 pm **I45** **A Preliminary Discussion on the Effects of Clothing on Soot Deposition at Varied Ranges of Fire and on Cylinder Gap Marks**  
Barbara Herfel, MD\*; Gregory Schmunk, MD; Christopher Poulos, MD; Matthew Cain, MD
- 11:30 am—1:00 pm **I46** **Beware: BB Guns Can Kill**  
Whitney Carriveau, BA\*; Selly Strauch, MD; Susan Roe, MD
- 11:30 am—1:00 pm **I47** **Considerations and Implications of Homemade Firearm Sound Suppressors: A Case Series**  
Megan Schwiertert, MD\*; Carolina McEnnan, MD; Henry Giraldo Jimenez
- 11:30 am—1:00 pm **I48** **A Fatal Gunshot Wound From a Test Shot: A Forensic Case Report**  
Annachiara Vinci, MD\*; Paolo Visci; Davide Ferorelli, MD; Natalia Sebastiani, MD; Gianmarco Sirago, MD; Francesco Calò, MD
- 11:30 am—1:00 pm **I49** **How the Misinterpretation of Formalin Pigment Artifacts in Postmortem Histology Can Influence the Forensic Diagnosis**  
Stefano Tambuzzi, MD\*; Guendalina Gentile, BSc; Riccardo Zoia, MD, PhD; Lorena Ferraroli, MSc
- 11:30 am—1:00 pm **I50** **WITHDRAWN**

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11:30 am—1:00 pm	<b>I51</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>I52</b>	<b>A Comparative Evaluation of Four Histological Stains for Skeletal Fracture Time Since Injury Estimation</b> Alexis VanBaarle, APM*; Carolyn Isaac, PhD; Joseph Prahlow, MD; Amanda Fisher-Hubbard, MD; Jered Cornelison, PhD; Joyce deJong, DO; Brandy Shattuck, MD; Theodore Brown, MD; Wendy Lackey-Cornelison, PhD
11:30 am—1:00 pm	<b>I53</b>	<b>A Case of Homicidal Necrophilia</b> Joseph Prahlow, MD*; Susan Zuiderveen, JD; Jay Blair, JD; David Walker
11:30 am—1:00 pm	<b>I54</b>	<b>The Forensic Face of Vampirism: A Singular Case of Manual Cardiac Removal in a Homicide</b> Angela Colucci, MD*; Enrica Macorano, MD; Francesco Introna, MD, PhD; Giovanni de Gabriele, MD; Andrea Marzullo, MD, PhD
11:30 am—1:00 pm	<b>I55</b>	<b>Double Homicide or Complex Accident? Forensic Challenges in a Case of Filicide, Matricide, and Dismemberment</b> Isabella Caristo, MEd*; Rosario Barranco, PhD; Francesco Ventura, PhD; Giulio Fraternali Orcioni, MEd; Domenico Coviello, PhD
11:30 am—1:00 pm	<b>I56</b>	<b>Hack and Slash: Machete Homicides in Harris County, Texas</b> Marianne Beynon, MD*
11:30 am—1:00 pm	<b>I57</b>	<b>Homicide by Heart Attack: A Case Series</b> Michelle Kao, BS*; Joseph Prahlow, MD; Kanayo Tatsumi, MD; Tatiana Bihun, MD; Katie Hanson, MD
11:30 am—1:00 pm	<b>I58</b>	<b>Fratricide With Overkilling and Afterkilling by a Woman With Schizophrenia: A Forensic Case</b> Lucilla De Luca, MD*; Laura Donato; Michele Treglia, MD; Luigi Tonino Marsella, MD; Margherita Pallocci, MD; Pierluigi Passalacqua, MD
11:30 am—1:00 pm	<b>I59</b>	<b>Asthma-Related Deaths in Los Angeles County, CA: Forensic Insights Into an Alarming Trend</b> Sarah Edminster, DO*; Andrew Nguyen, PhD; Robyn Parks, MD
11:30 am—1:00 pm	<b>I60</b>	<b>Comparing Standard Clinical Laboratory Beta-Hydroxybutyrate Testing of Vitreous Fluid Against Standard Toxicological Blood Analyses in Ketoacidosis Deaths</b> Quinn Basso, MD*; Betty Chow, MSc; Christopher Milroy, MD; Jacqueline Parai, MD
11:30 am—1:00 pm	<b>I62</b>	<b>Cerebral Vasculitis Associated With SARS-CoV-2 Infection: The Role of the Autopsy in the Postmortem Diagnosis and Preventive Insight</b> Matteo Antonio Sacco, MD*; Maria Daniela Monterossi, MD*; Saverio Gualtieri, MD*; Eugenio Garofalo, MD, PhD; Andrea Bruni, MD; Pino Pasqua, MD; Federica Riillo, MD; Alessandro Di Cello; Isabella Aquila, MD, PhD*
11:30 am—1:00 pm	<b>I63</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>I64</b>	<b>Endocrine Enigmas</b> Morgan Mastrud, BS, BA*; Alexis Meduna, BS; Susan Roe, MD; Selly Strauch, MD; Wai Szeto, MD

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- 11:30 am—1:00 pm **I65** **A Fatal Airway Obstruction Due to Laryngeal Papillomatosis: A Clinically Occult Complication**  
Mariana Voudouri, MD\*; Amber Wang, MD; Katherine Kenerson, MD
- 11:30 am—1:00 pm **I66** **Sweet But Deadly: Pyogenic Hepatic Abscesses in Diabetes**  
Claire Westby, BA\*; McKenzie Burian, BS; Susan Roe, MD; Selly Strauch, MD; Wai Szeto, MD
- 11:30 am—1:00 pm **I140** **A Fatal Invasive Candidiasis Diagnosed at Autopsy in a Long-Term Hospitalized Patient: A Case Report**  
Geon Kim; Eugene Choi, MD; Ga Eun Kim, MS; Dong Yeon Lee, BS; Moon-Young Kim, MD, PhD\*; Eun-Byoul Jung, BS; Im Soyoun, MS
- 11:30 am—1:00 pm **I123** **Fascinating and Mesmerizing: The Deadlier Side of Fireworks**  
Ami Jackson, DO\*

## Thursday – Session I

### Morning Session

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Moderator: Sterling McLaren, MD

Co-Moderator: Vincenzo Cianci, MD

- 8:30 am—8:50 am **I67** **Medicolegal Patterns in Homicide-Suicide Cases Related to Crimes of Passion, Altruistic Motives, or Psychiatric Disorders: A Retrospective Autopsy-Based Study**  
Eugenia Marta Leonzio, MD\*; Gianmarco Argentiero, MD; Gennaro Baldino, MD, PhD; Biagio Solarino, MD, PhD; Laura Secco, MD; Filippo Pirani, PhD
- 8:50 am—9:10 am **I68** **Law Enforcement Ballistic Fatalities: What Can We Gain From Autopsy Reviews?**  
Andrew Davis, MPH\*; Cynthia Bir, PhD
- 9:10 am—9:30 am **I69** **Autoerotic Deaths: A Review and Examination of Investigative and Autopsy Findings**  
Nichole Miller, BS\*; Hannah Jarvis, MRCS
- 9:30 am—9:50 am **I70** **Racehorse Fatality Investigation: The Roles of the Pathologist and Regulatory Veterinarian**  
Alina Vale, DVM\*
- 9:50 am—10:10 am **I71** **Neglect in the Pediatric and Elderly Population: A Nine-Year Retrospective Review From the Cook County Medical Examiner's Office**  
Antonietta Porzio, MD\*; Maria Rosaria Forte, APM\*; Lorenzo Gitto; Carlo Pietro Campobasso, MD, PhD
- 10:10 am—10:30 am **I72** **Work-Related Suicide: 25 Years of Forensic Cases in a European Province**  
Bianca Beltrame, MD\*; Lorenzo Franceschetti, MD, PhD; Sofia Bodini, MD; Andrea Verzeletti, MD, PhD
- 10:30 am—10:50 am **I73** **Patterns of Heat-Related Mortality in Southern Nevada: Forensic and Public Health Implications**  
Liam Johnson, MA\*; Katherine Gaddis, MA; Lisa Gavin, MD; Stephanie Yagi, DO
- 10:50 am—11:10 am **DISCUSSION AND Q&A**
- 11:10 am—2:00 pm **BREAK**

# PATHOLOGY/BIOLOGY

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## Afternoon Session

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Moderator: Siddhartha Das, MD

Co-Moderator: Jacqueline Parai, MD

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|-----------------|------------|---|
| 2:00 pm—2:20 pm | <b>I74</b> | <b>Homeless Deaths Investigated by a State-Wide Medical Examiner System</b><br>Maura DeJoseph, DO; Katherine Kenyon, MD; James Gill, MD*  |
| 2:20 pm—2:40 pm | <b>I75</b> | <b>Invisible Deaths: A Forensic Window Into Homeless Mortality in Milan (2014–2024)</b><br>Chiara Carsana, MD*; Stefano Tambuzzi, MD*; Cristina Cattaneo, MD, PhD; Devis Valleriani, MD |
| 2:40 pm—3:00 pm | <b>I76</b> | <b>WITHDRAWN</b>  |
| 3:00 pm—3:20 pm | <b>I77</b> | <b>Standards Development Activities in Medicolegal Death Investigation and Forensic Pathology</b><br>J. Keith Pinckard, MD, PhD*  |
| 3:20 pm—3:40 pm | <b>I78</b> | <b>Conrad-30 Waiver Program for Forensic Pathologists: An Overview</b><br>Mario Rascon, MD*   |
| 3:40 pm—4:00 pm | <b>I79</b> | <b>Pseudo-Gunpowder Stippling: An Image-Based Case Series</b><br>Kori Mecklenburg, MD*; Lauren Moshea, DO*; Joseph Prahlow, MD; Kanayo Tatsumi, MD; Robyn Parks, MD; Katie Hanson, MD   |
| 4:00 pm—4:20 pm | <b>I80</b> | <b>Beneath the Surface: Exploring Aquatic Decomposition in Sweden</b><br>Clara Alfsdotter, PhD; Anja Petaros, PhD*  |
| 4:20 pm—4:40 pm |            | <b>DISCUSSION AND Q&amp;A</b>   |

## Thursday – Session II

### Morning Session

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Moderator: Noemi Procopio, MD

Co-Moderator: Nicole Jackson, MD, MPH

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|-------------------|------------|---|
| 9:00 am—9:20 am   | <b>I81</b> | <b>An Examination of the Potential for Fly Transfer of Blood to a Suspect's Clothing</b><br>David Rivers, PhD*  |
| 9:20 am—9:40 am   | <b>I82</b> | <b>Environmental Forensic Entomology: What Can the Basic Biology of Flies Reveal About Environmental and Wildlife Crimes?</b><br>Charity Owings, PhD*   |
| 9:40 am—10:00 am  | <b>I83</b> | <b>How to Combine the Exigencies of Histopathological and Forensic-Genetic Investigation: Critical Issues in the Use of Medicolegal FFPE Samples for DNA Analysis</b><br>Giulia Soldati, PhD*; Rebecca Rigosa, MS; Nicola Pigaianni, MD, PhD; Pamela Rodegher, MS; Federica Bortolotti, MD, PhD; Francesco Ausania, MD, PhD |
| 10:00 am—10:20 am | <b>I84</b> | <b>The Effect of Soil Particle Size and Depth on Dogs' Detection of a Buried Odor</b><br>Glenna Cupp, MSc*; Madalyn Bower, BS; Paola Tiedemann, PhD; Daniel Hirmas, PhD; Nathaniel Hall, PhD; Edgar Aviles-Rosa, PhD  |

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10:20 am—10:40 am    **I85**    **Winter Taphonomy and Vertebrate Scavengers in the Northern Plains**  
Lavinia Iancu, PhD\*; Piper O'dell, BS\*; Thomas Sikorski\*; Ranna Dawlaty, BAS

10:40 am—11:00 am    **DISCUSSION AND Q&A**

11:00 am—2:00 pm    **BREAK**

## Afternoon Session

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Moderator: Alberto Chighine, PhD

Co-Moderator: Charity Owings, PhD

2:00 pm—2:20 pm    **I86**    **The Impact of Opioids and Benzodiazepines and Their Metabolites on Black Blow Fly (*Phormia Regina*) Larval Length**  
Linnea Briley\*; Cambria Jansen, BS; Hayden McKee-Zech, PhD

2:20 pm—2:40 pm    **I87**    **Tiny Traces, Big Impact: Fingertip Microbiomes in Forensic and Pathology Research**  
Michele Di Nunzio, MCS\*; Sarah Gino, MD; Noemi Procopio, PhD; Nengi Ogbanga, PhD; Anna Franzoni, MSc; Miquel Serra-Forteza, BSc

2:40 pm—3:00 pm    **I88**    **Front End Separation of Biological Mixtures Based on Time-Since-Deposition of Contributor Cell Populations**  
Christopher Ehrhardt, PhD; Arianna DeCorte, MS\*; Gabrielle Wolfe, BS

3:00 pm—3:20 pm    **I89**    **Integrating NGS-Based DNA Workflows Into the Postmortem Toolkit for Kinship and Identification**  
Mayra Eduardoff, PhD\*; Sheree Hughes, PhD\*

3:20 pm—3:40 pm    **I90**    **That's Some Pig: Protocol Optimization for the Analysis of DNA in Unpulverized Cremated Remains**  
Kendall Kroha, MS\*; Stephanie Gladysck, PhD; Austin Wickham, MS

3:40 pm—4:00 pm    **DISCUSSION AND Q&A**

## Thursday – Session III

### Jay Dix Memorial Lecture Series

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Moderator: James Gill, MD

8:30 am — 8:40 am    **Introduction**  
James Gill, MD

8:40 am — 9:30 am    **I91**    **Firearm Injuries**  
Andrew Baker, MD\*

9:30 am — 9:45 am    **BREAK**

9:45 am—10:35 am    **I91**    **Postmortem Changes**  
Joseph Prahlow, MD\*

10:35 am—11:25 am    **I91**    **Chronic Alcohol Use**  
Melissa Pasquale-Styles, MD\*

11:25 am—2:00 pm    **BREAK**

# PATHOLOGY/BIOLOGY

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2:00 pm—2:50 pm **I91** **Blunt Force Trauma**  
Katherine Maloney, MD\*

2:50 pm—3:05 pm **BREAK**

3:05 pm—3:55 pm **I91** **Asphyxia**  
Susan Ely, MD\*

3:55 pm—4:45 pm **I91** **Hyperactive Delirium**  
James Gill, MD\*

## Multidisciplinary Session: Pathology/Biology and Toxicology

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Moderator: Ponni Arunkumar, MD

Co-Moderator: Laura Labay, PhD

1:00 pm—1:15 pm **L45** **Postmortem Hair Testing for Fentanyl and Analogs: Experimental, Forensic, and Interpretative Aspects**  
Nicola Pigaiani, MD, PhD\* Marco Ballotari, PhD; Federica Bortolotti, MD, PhD;  
Gregory Davis, MD; Rossella Gottardo, PhD; Karen Scott, PhD

1:15 pm—1:35 pm **I92** **A Forensic Investigation of Kratom-Related Fatalities: The Mitragynine Paradox**  
Giulia Bambagiotti, MD; Diletta Berardinelli, PhD\*; Eva Montanari, PhD; Prentiss Jones, PhD;  
Gary W. Kunsman, PhD; Francesco Paolo Busardò, MD, PhD; Marilyn A. Huestis, PhD

1:35 pm—1:50 pm **L46** **MDMA Toxicity: A Fatal Case of Ayus-Arieff Syndrome**  
Chiara Carsana, MD\*; Bianca Beltrame, MD\*; Andrea Verzeletti, MD, PhD;  
Mauro Minoli, BPharm; Lorenzo Franceschetti, MD, PhD

1:50 pm—2:05 pm **L47** **Positivity of Clonazepam and 7-Aminoclonazepam in DUID Versus Postmortem Casework: Microbial Biotransformation as a Pre-analytical Factor**  
Haley Bibey, MSFS\*; Donna Papsun, MS; Brittany Casey, PhD; Shayna Kasher, MSFS

2:05 pm—2:20 pm **L48** **“The Matrix”: Is the Brain Suitable to Overcome PM Redistribution in Cocaine Overdoses?**  
Pascale Basilicata, PhD; Mariagrazia Marisei, MD\*; Maria Pieri, PhD\*; Angela Silvestre, PhD;  
Angela Simonelli, PhD; Rossella Guadagni, PhD

2:20 pm—2:35 pm **L49** **Unintentional Fentanyl Overdoses Among Cocaine Users: Investigating “Powder and Rock Confusion” Through a Scene-Integrated Toxicological Model**  
Emily Dalgo, MA; Alana Golding, BS\*; Maria Esquivel, BA\*; Rhonda Mittenzwei, MD\*

2:35 pm—2:55 pm **I93** **Trends in Cannabinoid Positivity in Fatal Motor Vehicle Collisions: A Retrospective Toxicological Analysis in Connecticut (2018–2024)**  
Stacy Thomas, MD, PhD\*; James Gill, MD; Amanda Mohr, MS; Michelle Clark, MS;  
Susan F. Ely, MD

2:55 pm—3:10 pm **L50** **Ketamine-Induced Nephritis and Cystitis: A Forensic Autopsy Case Report**  
Kanokphun Chaisaksiri, MD\*; Peerayut Phuangphung, MD, PhD; Ngoentra Tantranont, MD;  
Sakda Sathirareuangchai, MD

# PATHOLOGY/BIOLOGY

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## Friday

### Poster Session

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- 11:30 am—1:00 pm **I61** **An Unusual Suspect: Group B Strep Strikes in Spontaneous Peritonitis**  
Paloma Johnson, BS\*; Emma Weisner, BS; Susan Roe, MD; Selly Strauch, MD
- 11:30 am—1:00 pm **I94** **A Fatal Mimicker of Gastroenteritis: Pediatric Midgut Volvulus**  
Isaiah Germolus, BS\*; Hannah Rathgeber, BS; Selly Strauch, MD; Susan Roe, MD
- 11:30 am—1:00 pm **I95** **A Rare Pediatric Case of Concomitant Gorham-Stout Disease, Symptomatic Tarlov Cysts, and Undiagnosed Chiari I Malformation: Clinical and Medicolegal Implications**  
Sharon Duzioni, MD\*; Francesca Buffelli, MD, PhD; Alessandro Bonsignore, MD, PhD; Francesco Lupariello, MD
- 11:30 am—1:00 pm **I96** **Bacillus Cereus Pneumonia Causing Death in Infants**  
Daniel Nguyen, MD\*
- 11:30 am—1:00 pm **I97** **The Hazards of Hydranencephaly**  
Jake O’Hearn, BS\*; Lily Johnson, BA; Jared Ahrendsen, MD, PhD; Susan Roe, MD; Selly Strauch, MD
- 11:30 am—1:00 pm **I98** **Mitochondrial Disorders Mimicking Child Abuse: A Case of Misdiagnosed Munchausen by Proxy**  
Lina De Paola, MD; Miriam Ottaviani, MD\*; Gabriele Napoletano, PhD; Alessandro Ghamlouch, MD; Gaia De Angelis, MD
- 11:30 am—1:00 pm **I99** **Problems With Popcorn: The Dangers of Pediatric Foreign Body Aspirations**  
Hunter Olstad, BS\*; Mya Winjum, BS; Susan Roe, MD; Selly Strauch, MD
- 11:30 am—1:00 pm **I100** **WITHDRAWN**
- 11:30 am—1:00 pm **I101** **WITHDRAWN**
- 11:30 am—1:00 pm **I102** **What to Expect When You Don’t Know You’re Expecting: A Cryptic Pregnancy With Fatal Consequences**  
Anna Claudia Caruso, MD\*; Monica La Greca, APM\*; Benedetta Baldari, PhD; Anna Maria Manta, MD; Marida Imbriani, MD
- 11:30 am—1:00 pm **I103** **A Case of Complex Suicide by Captive-Bolt Gunshot and Hanging**  
Irene Pradelle, MD\*; Matilde Rujju, MD\*; Luca Diani, MD; Margherita Neri, PhD; Giada Rovito, MD; Alessandra Bergonzini, MD
- 11:30 am—1:00 pm **I104** **Back to Basics: Defining the Histology of Suicidal Ligature Furrows**  
Caroline Durham, MD\*; Dwayne Wolf, MD, PhD; Nicole Dominiak, MD
- 11:30 am—1:00 pm **I105** **Diagnostic Challenge in Forensic Autopsy: Possible Hydrogen Peroxide Ingestion in Caffeine Overdose Suicide**  
Casem Ballouk, MD\*; Amber Silva, MS; Wendy Gunther, MD; Nicole Masian, APM

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- 11:30 am—1:00 pm **I106** **Engineered Exit: A Multidisciplinary Reconstruction in a Loader Blade Self-Inflicted Death**  
Damiano Marchesini, MD; Anna Claudia Caruso, MD\*; Flavia Sciuttini, MD\*;  
Benedetta Baldari, PhD
- 11:30 am—1:00 pm **I107** **Suicide by Evisceration: A Presentation of Three Cases and a Review of the Relevant Literature**  
Raffaella Campagna, MD\*; Maria Antonella Bosco, MD; Christian Pallante;  
Wanda Nocerino, PhD; Angela Procaccino, PhD; Federica Genchi, MD
- 11:30 am—1:00 pm **I108** **The Ear as a Clue to Asphyxiation: A Rare Case of Otorrhagia in Hanging**  
Anna Messina, MD\*; Vincenzo Cianci, MD\*; Daniela Sapienza, PhD; Cristina Mondello, PhD;  
Beatrice Spadaro, MD; Maria Manno, MD
- 11:30 am—1:00 pm **I109** **Troubles With Dying? Plan Your Suicide**  
Niccolo' Melloni, MD\*; Enrico Gerace, BS; Roberto Testi, MD; Silvia Boca, MD
- 11:30 am—1:00 pm **I110** **The Application of Postmortem Micro-Computed Tomography (PM-microCT) in the Analysis of Fatal Neck Compression in Advanced Decomposed Bodies**  
Matteo Scopetti, MD, PhD\*; Martina Padovano, MD\*; Maria Chiara David, PhD;  
Chantal Milani, PhD; Francesca Consalvo, MD; Stefano Vanin, PhD;  
Alessandro Santurro, MD, PhD\*; Vittorio Fineschi, MD, PhD
- 11:30 am—1:00 pm **I111** **From Suicide to Homicide: About One Charred Body and the Contribution of Postmortem Computed Tomography Coupled With Scanning Electron Microscopy Coupled With Energy Dispersive X-Ray Spectroscopy**  
Fabrice Dedouit, MD, PhD\*; Lise Pestourie, MD; Frederic Savall, MD, PhD;  
Norbert Telmon, MD, PhD; Marion Vergnault, MD; Celine Guilbeau Frugier, MD, PhD
- 11:30 am—1:00 pm **I112** **WITHDRAWN**
- 11:30 am—1:00 pm **I113** **EyePhone: Ocular Pathology Imaging at Your Fingertips**  
Ashley Smith, MD\*; Patrick Lantz, MD; Mark Giffen, DO; Joseph Fortin, BS
- 11:30 am—1:00 pm **I114** **The Postmortem Application of Bioelectrical Impedance Analysis (BIA): Correlations Between Electrical Parameters, BMI, and PMI in a Series of 29 Cases**  
Maria Cristina Verrina, MD\*; Ennio Avolio, PhD; Matteo Antonio Sacco, MD\*;  
Alessandro Pasquale Tarallo, MD\* Sabrina Raffaele, MSc; Ludovico Abenavoli, MD, PhD;  
Wandamaria Mazzuca; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **I115** **Rare Fatal Complications of Hemorrhoidal Banding: A Case Series**  
David Behrman, MD\*; Bernadette DeRussy, MD, PhD
- 11:30 am—1:00 pm **I116** **The Fragility of Fistulas: Two Cases of Exsanguination Via AV Fistula**  
Mikale Kuntz, BS\*; Ally Feland, BS; Dr. Selly Strauch, MD; Susan Roe, MD
- 11:30 am—1:00 pm **I117** **Benzimidazole Opioid-Associated Fatalities Observed at the Harris County Institute of Forensic Sciences: A Case Series**  
Karan Goel, MD\*; Si Gao, MS; Hannah Jarvis, MRCS
- 11:30 am—1:00 pm **I118** **A Forensic Diagnosis of Acute and Fatal Phosphine Exposure: Environmental, Toxicological, and Histopathological Findings**  
Elena de Laurentiis, MD\*; Cristina Elia, MD\*; Raffaele Cirillo, MD\*; Francesca Consalvo, MD;  
Carmen Sementa, MD; Vittorio Fineschi, MD, PhD; Alessandro Santurro, MD, PhD

# PATHOLOGY/BIOLOGY

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- 11:30 am—1:00 pm **I119** **It's Lit: A Case of Accidental Fire and Inhalant Abuse**  
Luca Tomassini, MD\*; Piergiorgio Fedeli; Anna Maria Manta, MD\*; Massimo Lancia, MD, PhD;  
Flavia Sciuttini, MD\*; Daniele Paolini, MD
- 11:30 am—1:00 pm **I120** **Neuromuscular Death: A Histological and Toxicological Approach to a Rare Strychnine Fatality**  
Raffaella Vetrini, MD\*; Calogero Cuttaia, MD; Riccardo Addobbati, PhD;  
Emiliana Giacomello, PhD; Filippo Bolzan, MD; Tommaso Bruscapin, MD
- 11:30 am—1:00 pm **I121** **A 14-Year Retrospective Analysis of Crash Characteristics in Accidental Motor Vehicle Deaths**  
Donald Turbiville, MD\*; D. Kimberley Molina, MD
- 11:30 am—1:00 pm **I122** **Deaths by Drowning: A Ten-Year Overview in Western Michigan**  
Jordan Roberson, BS\*; Christopher Nwoke, BA; Abigail Grande, MPH;  
Amanda Fisher-Hubbard, MD; Nicolas Kostelecky, MD
- 11:30 am—1:00 pm **I124** **Pediatric Perpetrators and Unusual Weapons: Investigation, Injury Biomechanics, and Manner Determination**  
Danielle Mack, MD\*; Melissa Blessing, DO; Maura Thurber, MHS; Zeel Naik, MS
- 11:30 am—1:00 pm **I125** **"Seventy Years of Forensic Experience (1943-2016): Evolution of Forensic Management in Mass Disasters"**  
Enrica Macorano, MD\*; Fabrizio Calabrese, MD; Francesco Introna, MD
- 11:30 am—1:00 pm **I126** **A Rare Death Caused by a Falling Taxidermy Elk Head and an Injury Pattern Analysis**  
John Hu, MD, PhD
- 11:30 am—1:00 pm **I127** **The Advantages and Limits of Postmortem Computed Tomography (PMCT) and 3D Reconstruction in Characterization of Fatal Injuries by Hammers**  
Elena de Laurentiis, MD\*; Raffaele Cirillo, MD\*; Cristina Elia, MD\*; Carmen Sementa, MD;  
Federico Battipaglia; Vittorio Fineschi, MD, PhD; Stefania De Simone, PhD;  
Alessandro Santurro, MD, PhD
- 11:30 am—1:00 pm **I128** **Airbag: Lifesaving Device or Lethal Mechanism? A Forensic Analysis of an Emblematic Case**  
Lucia Tarda, MD; Matteo Antonio Sacco, MD\*; Saverio Gualtieri, MD\*; Roberto Arcadia, MSc;  
Gerardo Perozziello, PhD; Roberto Raffaele, MSc\*; Claudia Catia De Pasquale, MSc; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **I129** **The Analysis of a Sudden Death Case Related to a Wild Boar Trap Injury**  
Saverio Gualtieri, MD\*; Matteo Antonio Sacco, MD\*; Massimo Musardo, LLB;  
Aurora Princi, MD; Pietro Tarzia, MD\*; Stefano Lombardo, MD; Isabella Aquila, MD, PhD\*
- 11:30 am—1:00 pm **I130** **Beneath the Surface: What a Burned Body Still Reveals**  
Biancamaria Treves, MD\*; Alessandro Ghamlouch, MD; Gabriele Napoletano, PhD;  
Gaia De Angelis, MD; Maura Racciatti, MD; Fabio Del Duca, MD
- 11:30 am—1:00 pm **I131** **WITHDRAWN**
- 11:30 am—1:00 pm **I132** **Electricity and Home Safety: The Role of Collaboration Between Forensic Pathologists and Engineers in Investigating a Fatal Incident**  
Raffaele Cirillo, MD\*; Elena de Laurentiis, MD\*; Davide Radaelli, PhD; Raffaella Vetrini, MD;  
Cristina Elia, MD\*; Maria Buffon, MD; Alessandro Santurro, MD, PhD; Carmen Sementa, MD

# PATHOLOGY/BIOLOGY

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- 11:30 am—1:00 pm **I133** **A Fatal Fall From Flight: A Forensic Case Study**  
Jerielle Cartales, MSc\*; Carolyn Isaac, PhD; Joseph Hefner, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am—1:00 pm **I134** **Homicide by Vehicle Escape: Death From a Leap From a Car in Motion to Escape Sharp Force Injury Inflicted by the Driver**  
Christian Perez-Torres, MD\*; Wendy Gunther, MD
- 11:30 am—1:00 pm **I135** **Justice Across Jurisdictions: An Integrated Analysis of Domestic Violence in the United States and Italy**  
Cheli Calderon, BS\*; Micki Besse, MS; Heather Walsh-Haney, PhD; Melodie Eichbauer, PhD; Joanna Salapska-Gelleri, PhD; Roshni Ladny, PhD
- 11:30 am—1:00 pm **I136** **Silent Danger: A Companion Case of Carbon Dioxide Asphyxiation in a Wine Cellar Due to Dry Ice Exposure**  
Josue Fonseca, BS\*; Emma Henrie, MD
- 11:30 am—1:00 pm **I137** **A Work-Related Death in an Olive Oil Processing Plant: A Case Report of a Complex Forensic Analysis**  
Bianca Beltrame, MD\*; Angela Colucci, MD\*; Antonio Marzaioli, MD; Alessandro Cristalli, MD; Riccardo Amirante, MD, PhD; Francesco Introna, MD, PhD
- 11:30 am—1:00 pm **I138** **Corpse Recovery in Extreme Environments: A Forensic Case Study From a Manure Pit**  
Raffaele Cirillo, MD\*; Elena de Laurentiis, MD\*; Cristina Elia, MD\*; Roberto Raimo, MD; Donato Morena, MD, PhD; Gabriele Casaburi, MD\*; Alessandro Santurro, MD, PhD\*
- 11:30 am—1:00 pm **I139** **When Words Cut Deep: A Rare Accidental Sharp Force Death During a Domestic Altercation**  
Marida Imbriani, MD\*; Gianluca Piras, MD; Benedetta Baldari, PhD

## Friday – Session I

### Morning Session

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Moderator: Lorenzo Franceschetti, MD, PhD

Co-Moderator: Lorenzo Gitto, MD

- 9:00 am—9:20 am **I141** **3D Technologies in Forensic Medicine: From Complexity Perception to Practical Integration**  
Federica Amirante, MD\*; Gianmarco Argentiero, MD; Marcello Benevento, MD; Laura Ambrosi, MD; Biagio Solarino, MD, PhD
- 9:20 am—9:40 am **I142** **Micro-CT and Histopathology of the Hyoid-Larynx Complex in Cases of Fatal Trauma to the Neck**  
Sofia Goia, PhD\*; Angela Colucci, MD; Charlotte Primeau, PhD; Mark Williams, PhD
- 9:40 am—10:00 am **I143** **The Past, Present, and Future of Bone Fracture Age Estimation: A Technological Perspective**  
Charlotte Lawrence, MSc\*; Mark Williams, PhD; Charlotte Primeau, PhD
- 10:00 am—10:20 am **I144** **Using Micro-CT Scanning for Criminal Investigations of Suspicious Child Deaths: A Decade of Experience From the United Kingdom**  
Charlotte Primeau, PhD\*; Sofia Goia, PhD; Mark Williams, PhD; Charlotte Lawrence, MSc
- 10:20 am—10:40 am **I145** **Postmortem Evaluation of Anomalous Aortic Origin of the Right Coronary Artery Using CT and MRI: A Retrospective Case Study**  
Yukiko Uemura, MD\*; Shigeki Tsuneya, MD, PhD; Yohsuke Makino, MD, PhD; Hirotarō Iwase, MD, PhD; Masatoshi Kojima, MA; Go Inokuchi, MD, PhD

# PATHOLOGY/BIOLOGY

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10:40 am—11:00 am     **I146**     **Beyond the Scalpel: Integrating Virtopsy and Traditional Autopsy in Mass Disaster Victim Identification**  
Enrica Macorano, MD\*; Angela Colucci, MD\*; Francesco Introna, MD

11:00 am—11:20 am     **DISCUSSION AND Q&A**

11:20 am—2:00 pm     **BREAK**

## Afternoon Session

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Moderator: Simone Grassi, MD

Co-Moderator: Tatyana Zinger, DO

2:00 pm—2:20 pm     **I147**     **A Case-Based Analysis to Assess the Validity of the Hat Brim Line Rule in Cranial Trauma**  
Kiti Doci, MD\* Alberto Amadasi, MD, PhD; Marcello Seligardi, MD\*; Valentina Bugelli, MD, PhD;  
Federica Poli, MD; Sara Dagoli, PhD

2:20 pm—2:40 pm     **I148**     **A Unique Case and 25-Year Retrospective of Trash Chute and/or Compactor Death in Miami-Dade County**  
Mariana Voudouri, MD\*; Alexander Blank, MD; Alexander Giachetti, PSM; Nicholas Barna, MD

2:40 pm—3:00 pm     **I149**     **Understanding Blunt Force Injuries: A Biomechanical and Forensic Comparison of Vertical and Horizontal Forces**  
Alejandro Partida, MD\*; Mario Rascon, MD

3:00 pm—3:20 pm     **I150**     **Unusual/Atypical Deaths With Sharp Force Injuries**  
Priyanka Kaushal, BS\*; Joseph Prahlow, MD; Kanayo Tatsumi, MD; Tatiana Bihun, MD;  
Katie Hanson, MD

3:20 pm—3:40 pm     **I151**     **Electrocutions Right or Wrong**  
Helmut Brosz, BAsC\*; Renee Knight, BAsC

3:40 pm—4:00 pm     **I152**     **SHOCK AND AWE! A Review of Electrocution Deaths at the Denver Office of the Medical Examiner/Coroner (2010–2023)**  
Logan Ritter, MD\*; Meredith Frank, MD; James Caruso, MD; Ian Puffenberger, MD;  
Sterling McLaren, MD

4:00 pm—4:20 pm     **DISCUSSION AND Q&A**

## Friday – Session II

### Morning Session

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Moderator: Paul Uribe, MD

Co-Moderator: Carlo Campobasso, MD, PhD

8:40 am—9:00 am     **I153**     **When Science Isn't Independent: Fire Investigators, Medical Examiners, and Circular Logic**  
John Lentini, BA\*

9:00 am—9:20 am     **I154**     **The Undying Dilemma of Time Since Death in Court: A Critical Analysis of Traditional and Innovative Methods for PMI Estimation**  
Simone Grassi, MD, PhD\*; Hannah Jarvis, MRCS; Noemi Procopio, PhD; Andrea Costantino, MD

# PATHOLOGY/BIOLOGY

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9:20 am—9:40 am	<b>I155</b>	<b>A Deep Learning-Based Evaluation of Coronary Artery Stenosis in Forensic Autopsies Using Whole Slide Imaging</b> Nicola Pigaiani, MD, PhD*; Shakiba Sharifi, MEng; Matteo Brunelli, MD, PhD; Marianna Garavello, MD; Alberto Chighine, MD, PhD; Stefano Gobbo, MD, PhD
9:40 am—10:00 am	<b>I156</b>	<b>An Interpretation of Myocardial Injuries in Natural and Unnatural Deaths</b> Katarzyna Michaud, MD*
10:00 am—10:20 am	<b>I157</b>	<b>Postmortem Diagnosis of Dilated Cardiomyopathy: Revisiting Fundamentals Through a Systematic Review</b> Simona Calabrese, MD*; Vincenzo Cianci, MD*; Alessio Asmundo, PhD; Cristina Mondello, PhD; Alessandro Nicolosi, MD; Anna Messina, MD
10:20 am—10:40 am	<b>I158</b>	<b>From Arteriosclerotic Cardiovascular Disease to Aortic Dissection: The Impact of Postmortem Imaging in Cause-of-Death Determinations</b> Carissa Longo, MD*; J. Jun Guan, MD
10:40 am—11:00 am	<b>I159</b>	<b>A 17-Year Review of Myocarditis Cases From the West Tennessee Regional Forensic Center</b> Alexandria Anderson, BA*; Ibrahim Ortanca, MD
11:00 am—11:20 am		<b>DISCUSSION AND Q&amp;A</b>
11:20 am—2:00 pm		<b>BREAK</b>

## Afternoon Session

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Moderator: Melissa Blessing, D)

Co-Moderator: Gregory Schmunk, MD

2:00 pm—2:20 pm	<b>I160</b>	<b>Pediatric Drug-Related Deaths and Toxicological Findings From the Cook County Medical Examiner's Office: A Five-Year Retrospective Study</b> Santina Alessandra Severino, PharmD*; Anna Carfora, PhD; Lorenzo Gitto; Carlo Pietro Campobasso; Federica Migliaccio, MD
2:20 pm—2:40 pm	<b>I161</b>	<b>Delayed Death Resulting From Child Abuse: An Analysis of an Uncommon Phenomenon in a Large Metropolitan Area</b> Ilaria Fracassi, MD*; Valentina Mormile, MD; Lorenzo Gitto, MD; Carlo Pietro Campobasso, MD, PhD
2:40 pm—3:00 pm	<b>I162</b>	<b>Reading Between the Scars: Recognizing Intent in Pediatric Burn Injuries</b> Alice Buzzelli, MD*; Valentina Bugelli, MD, PhD; Alberto Amadasi, PhD; Lorenzo Franceschetti, MD, PhD
3:00 pm—3:20 pm	<b>I163</b>	<b>Investigating the Phenomenon of Lesion Vitality on Human Ribs: From Untargeted Proteomics to the Application of Immunostainings for Specific Proteins</b> Nicola Galante, MD*; Daniele Capitanio, PhD; Riccardo Zoia, MD, PhD; Alessandro Del Gobbo, MD; Alessio Battistini, MD, PhD
3:20 pm—3:40 pm	<b>I164</b>	<b>Systemic Calcium Dysregulation and Neuropathological Aging: A Retrospective Hospital Autopsy Study</b> Stacy Thomas, MD, PhD*; Hannah Sage, MD; Declan McGuone, MBBch; Cameron Stockford, BS; Barbara Ehrlich, PhD
3:40 pm—4:00 pm	<b>I165</b>	<b>The Applications of Humanitarian Principles in Forensic Death Investigations for Indigenous Communities</b> Steff King, MA*; Gail Anderson, PhD <i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>

# PATHOLOGY/BIOLOGY

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4:00 pm—4:20 pm      **I166      WITHDRAWN**

4:20 pm—4:40 pm      **DISCUSSION AND Q&A**

# PSYCHIATRY & BEHAVIORAL SCIENCE

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## Thursday

### Poster Session

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11:30 am—1:00 pm	<b>J1</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>J2</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>J3</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>J4</b>	<b>Zoanthropic Delusions Resulting From Acute Fentanyl and Methamphetamine Intoxication</b> Nidhi Checka, BS*; Tatiana Bihun, MD
11:30 am—1:00 pm	<b>J5</b>	<b>Measuring Factors Associated With Identification Thresholds in Fingerprint Analysts</b> Nada Aggadi, BA*; Thomas Busey, PhD; Meredith Coon, MFS
11:30 am—1:00 pm	<b>J6</b>	<b>Moved to Oral Presentation</b>

### Morning Session

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Moderator: Jessica Morel, DO

Co-Moderator: Corina Freitas, MD, MSc, MBA

8:00 am—8:35 am	<b>J7</b>	<b>Out With the Old, in With the New: An Alternative Approach to Evaluating Personality Disorder in Competency to Stand Trial</b> William Provosty, MD*
8:35 am—9:10 am	<b>J8</b>	<b>Misdemeanor Incompetent to Stand Trial (MIST) Reform: Lessons From Los Angeles County and Future Directions</b> Michael Dodge, MD*
9:10 am—9:45 am	<b>J9</b>	<b>Considerations for Conducting Competency to Self-Represent Evaluations in Immigration Court</b> Kieu-Yen Luu, MD*
9:45 am—10:00 am		<b>BREAK</b>
10:00 am—10:45 am	<b>J10</b>	<b>Cursed or Ill? The Witches of the Past Re-Examined Today Through the Diagnostic Tools of Modern Forensic Psychology</b> Vincenzo Lusa, PhD*; Anna Maria Casale, PsyD; Gianmarco Muraro, MSc
10:45 am—11:30 am	<b>J11</b>	<b>A Forensic-Psychiatric Reconstruction of the Historical Case of Peter Kürten: “The Vampire of Düsseldorf”</b> Lucia Tarda, MD; Matteo Antonio Sacco, MD*; Valerio Riccardo Aquila, PsyD; Maria Cristina Verrina, MD*; Maria Eugenia Caligiuri, MEng; Alessandro Pasquale Tarallo, MD; Francesca Lobello; Isabella Aquila, MD, PhD*
11:30 am—1:00 pm		<b>BREAK</b>

# PSYCHIATRY & BEHAVIORAL SCIENCE

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## Afternoon Session

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Moderator: Klaus Neudecker, MD

Co-Moderator: Corina Freitas, MD, MSc, MBA

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| 1:00 pm—2:05 pm | <b>J12</b> | <b>Enhanced Trauma-Informed Policing: Neurocognitive Impacts of Trauma and the Role of Leadership, Emotional Intelligence, and Organizational Justice</b><br>Gregory Mack, PhD*; Monica Brooker, PhD* |
| 2:05 pm—3:25 pm | <b>J13</b> | <b>Understanding the Role of Moral Injury in Police Officer Suicide and Trauma Reactions</b><br>Stephanie Tacopina, PhD*; Marisol Habrahamshon, PsyD*; Gregory Mack, PhD*; Christina Gille, PsyD*     |
| 3:25 pm—3:40 pm |            | <b>BREAK</b>  |
| 3:40 pm—5:00 pm | <b>J14</b> | <b>Wars and Natural Disasters: Vicarious Trauma Through Media Manipulation and Promotion or Suppression of Current Events</b><br>Jessica Morel, DO*; Vivian Chern Shnaidman, MD                       |

## Friday

### Poster Session

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| 11:30 am—1:00 pm | <b>J15</b> | <b>A Forensic Psychiatric Analysis of Paternal Filicide: A Narrative Literature Review</b><br>Andrea Cioffi, MD*; Camilla Cecanecchia, MD*; Luigi Cipolloni, MD, PhD; Stefania De Simone, PhD; Francesco Orsini, MD |
| 11:30 am—1:00 am | <b>J16</b> | <b>WITHDRAWN</b>  |
| 11:30 am—1:00 am | <b>J17</b> | <b>Detecting Malingered mTBI Using the Neurobehavioral Symptom Inventory</b><br>Joseph Preckajlo, MA; Erica Baer, PhD*; Richard Conti, PhD  |
| 11:30 am—1:00 am | <b>J18</b> | <b>WITHDRAWN</b>  |
| 11:30 am—1:00 pm | <b>J19</b> | <b>WITHDRAWN</b>  |
| 11:30 am—1:00 pm | <b>J20</b> | <b>WITHDRAWN</b>  |

### Morning Session

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Moderator: Alan Felthous, MD

Co-Moderator: David Annas, MD, MPH

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| 8:00 am—8:35 am | <b>J21</b> | <b>Likes, Dopamine, and Crime: The Challenge of Psychiatric Forensics in the Face of a Stimulus-Addicted Brain</b><br>Anna Beatriz Rodrigues Geranio*; Cristiane Viana Barbosa, MA*; Dineusa Amaral, MBA*; Bruno Da Silveira Pataro Moreira, APM |
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# PSYCHIATRY & BEHAVIORAL SCIENCE

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8:35 am—9:10 am	<b>J6</b>	<b>Electronic Health Records, Artificial Intelligence, and the Forensic Psychiatric Examiner: Pitfalls and Implications</b> Vivian Chern Shnaidman, MD*
	<b>J22</b>	<b>WITHDRAWN</b>
9:10 am—9:45 am	<b>J23</b>	<b>Behind the Emergency Room Doors: Revealing Hidden Gender-Based Violence Through Clinical Forensic Medicine</b> Annachiara Vinci, MD*; Gianmarco Sirago, MD; Alessandro Dell'Erba, MD, PhD; Davide Ferorelli, MD; Paolo Visci; Susanna Sabato, MD; Gianmarco Sirago, MD
9:45 am—10:00 am		
10:00 am—10:35 am	<b>J24</b>	<b>BREAK</b>
		<b>The True Crime Effect: Examining True Crime Consumers' Beliefs About Forensic Science, Evidentiary Expectations, and Attitudes Toward the Criminal Justice System</b>
10:35 am—11:10 am	<b>J25</b>	Brianne Suldovsky, PhD*
		<b>Disparities in Disappearances: Public Perception of Missing Persons Cases and the Influence of Missing White Woman Syndrome</b>
11:10 am—1:00 pm		Erica Baer, PhD*; Jaedan Carnahan, BS; Richard Conti, PhD; Dante McKinnell, MA
		<b>BREAK</b>

## Afternoon Session

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Moderator: Vivian Shnaidman, MD

Co-Moderator: David Annas, MD, MPH

1:00 pm—1:35 pm	<b>J26</b>	<b>A Fatal Case of Munchausen Syndrome by Proxy in the Father–Daughter Dyad</b> Federica Amirante, MD*; Anna Margari, MD*; Roberto Catanesi, MD, PhD; Biagio Solarino, MD, PhD
1:35 pm—2:10 pm	<b>J27</b>	<b>Reining in Juvenile Impulsive Aggression: A Novel Pharmacologic Treatment Algorithm in Forensic Psychiatric Settings</b> Maureen Cranley, BS*; Alan Felthous, MD; Felicia Johnson, PhD
2:10 pm—2:45 pm	<b>J28</b>	<b>WITHDRAWN</b>
2:45 pm—3:00 pm		<b>BREAK</b>
3:00 pm—3:30 pm	<b>J29</b>	<b>The Development of the Willingness to Malinge Scale</b> Richard Conti, PhD*; Erica Baer, PhD; Joseph Preckajlo, MA
3:45 pm—4:15 pm	<b>J30</b>	<b>Psychiatric Patients Institutionalized During World War II: The Forgotten Deaths</b> Ilaria Rossetto, MD*; Stefano Tambuzzi, MD*; Mirko Mattia, PhD*; Cristina Cattaneo, MD, PhD*
4:15 pm—5:00 pm	<b>J31</b>	<b>WITHDRAWN</b>

# QUESTIONED DOCUMENTS

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## Thursday

### Poster Session

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- 11:30 am—1:00 pm      **K1**      **A Forensic Analysis of 2-Phenoxyethanol in Ballpoint Pen Strokes on Paper Under Natural Aging Conditions**  
Veronika Marinović, PhD\*; Ivana Bolanča Mirković, PhD; Andrea Ledić, MSc;  
Stjepan Brzica, MSc
- 11:30 am—1:00 pm      **K2**      **Network Graphs for Visualizing Handwriting Individuality**  
Clarissa Giefer, MS\*; Cami Fuglsby, PhD; JoAnn Buscaglia, PhD; Christopher Saunders, PhD;  
Jack Hietpas, PhD; Janean Hanka, MS
- 11:30 am—1:00 pm      **K3**      **A Support System for Document Analysis Through Detection and Recognition of Handwritten Documents**  
Enrique Bermejo, PhD; Alejandro Manzanares, MSc; Oscar Ibáñez, PhD\*
- 11:30 am—1:00 pm      **K4**      **A Case Study on the Reliability of Electronic Signatures Across Varying Security Levels**  
Cristiane Barbosa, MA\*; Dineusa Amaral, MBA\*; Anna Beatriz Rodrigues Geranio

### Morning Session

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Moderator: Stephanie Kingsbury, MFS

Co-Moderator: Mark Goff, BA

- 8:30 am—9:00 am      **K5**      **WITHDRAWN**
- 9:00 am—9:30 am      **K6**      **WITHDRAWN**
- 9:30 am—10:00 am      **K7**      **DIY AI for Forensic Document Examiners**  
Mark Goff, BA\*
- 10:00 am—10:20 am      **BREAK**
- 10:20 am—10:40 am      **K8**      **I Had a Case . . . Hiding in Plain Sight**  
Kate Butler, BS\*
- 10:40 am—11:00 am      **K9**      **WITHDRAWN**
- 11:00 am—11:20 am      **K10**      **I Had a Case—Document Obliterations in a Homicide Investigation and a Return to Classic Forensic Techniques**  
Sarah Pryor, BS\*; Angela Roe, MSc\*
- 11:20 am—1:00 pm      **BREAK**

# QUESTIONED DOCUMENTS

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## Afternoon Session

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Moderator: Meredith DeKalb Miller, MFS

Co-Moderator: Zain Bhaloo, MSc

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| 1:00 pm—1:20 pm | <b>K11</b> | <b>Automating Toner-Based Sequence Determination in Forensic Document Examination: New Tools and Next Steps</b><br>Zain Bhaloo, MS*; Mathieu Arès, BS; Brent Ostrum, BS                            |
| 1:20 pm—1:40 pm | <b>K12</b> | <b>WITHDRAWN</b>   |
| 1:40 pm—2:00 pm | <b>K13</b> | <b>Training for Success in Questioned Documents</b><br>Meredith Miller, MFS*   |
| 2:00 pm—2:20 pm | <b>K14</b> | <b>A Proposal for a Forensic Signature Examination Standard</b><br>Linton Mohammed, PhD*   |
| 2:20 pm—3:00 pm | <b>K15</b> | <b>Note Taking Requirements for New FDE Standards . . . That Seems Like a Lot</b><br>Mark Goff, BA*  |
| 3:00 pm—3:10 pm |            | <b>BREAK</b>   |
| 3:10 pm—3:30 pm | <b>K16</b> | <b>Graphoscopy in the Digital Age: Revisiting Classical Principles in Light of Emerging Signature Technologies</b><br>Dineusa Amaral, MBA*; Cristiane Barbosa, MA*; Anna Beatriz Rodrigues Geranio |
| 3:30 pm—3:50 pm | <b>K17</b> | <b>A Study of Baseline Alignment and Slant Within Various Handwriting Elements</b><br>Carl McClary, MS*; Linton Mohammed, PhD  |
| 3:50 pm—4:20 pm | <b>K18</b> | <b>The Forensic Document Examiner Forum</b><br>Carl McClary, MS*; Samiah Ibrahim, BSc  |

## Friday

### Morning Session

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Moderator: McKenzie Weyh, BASc

Co-Moderator: Kate Butler, BS

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|-------------------|------------|---|
| 9:00 am—9:20 am   | <b>K19</b> | <b>Forensic Intelligence “Profiling” of Counterfeit Pharmaceutical Packaging Components</b><br>Vincent Salvatore, BS, MBA*; Geoffrey Albert-Bolinski, BA; Christopher Hopkins, MS; Roy Ford, MBA; Anthony Zook, PhD |
| 9:20 am—10:00 am  | <b>K20</b> | <b>Document Date Evidence From the Aptos Font, and Kerning in Microsoft Word</b><br>Thomas Phinney, MSc*  |
| 10:00 am—10:20 am | <b>K21</b> | <b>WITHDRAWN</b>  |
| 10:20 am—10:40 am | <b>K22</b> | <b>An Overview of the Voluntary Licensure Program for Forensic Document Examiners in the State of Texas: Updates and Eligibility Requirements</b><br>Keelie Johnson, BASc*  |
|                   | <b>K23</b> | <b>WITHDRAWN</b>  |
| 10:40 am—11:00 am | <b>K24</b> | <b>An Analysis of Stroke Order in Digitized Handwritten Intersections</b><br>Cristiane Barbosa, MA*; Dineusa Amaral, MBA*; Anna Beatriz Rodrigues Geranio   |

# TOXICOLOGY

## Wednesday

### Poster Session

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7:30 pm—9:00 pm	<b>L1</b>	<b>A Complete and Optimized Toxicological Database Solution for Investigative and Routine Testing on GC/MS</b> Jeremy Smith, MSc*
7:30 pm—9:00 pm	<b>L2</b>	<b>WITHDRAWN</b>
7:30 pm—9:00 pm	<b>L3</b>	<b>A Toxic Relationship: Advanced Analytical Screening Techniques for Decomposed Specimens</b> Rachel Lindenberger, PhD*; Paul Crowley, BS; Sandra Bishop-Freeman, PhD
7:30 pm—9:00 pm	<b>L4</b>	<b>Advancing Forensic Sample Preparation: Capsule Phase Microextraction (CPME) as an Efficient Tool for Trace Evidence Analysis</b> Abuzar Kabir, PhD*; Kenneth Furton, PhD
7:30 pm—9:00 pm	<b>L5</b>	<b>Analytical Challenges in the Detection of <math>\Delta 8</math>-Tetrahydrocannabinol and Its Metabolites in Dried Urine Spots</b> R. Deanna Brambila, MSFS; Eduardo Geraldo de Campos, PhD*
7:30 pm—9:00 pm	<b>L6</b>	<b>Benzodope and Beyond: The Detection of Benzodiazepine and Opioid Mixtures in Blood and Alternative Matrices Using LC/MS/MS</b> Elizabeth Greco, BS*; Meredith Robbins, MS; Britni Skillman, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 pm—9:00 pm	<b>L7</b>	<b>Can <i>Lucilia Sericata</i> Larvae Produce Ethyl Glucuronide? An Experimental Study for Forensic Implications</b> Erika Buratti, PhD*; Giulia Ricchezza; Alice Cerioni, PhD; Marta Cippitelli, PhD; Roberto Scendonì, MD, PhD; Gianmario Mietti, PhD
7:30 pm—9:00 pm	<b>L8</b>	<b>The Classification of Mitragynine and 7-Hydroxymitragynine of Commercial Online Kratom Products, Local Kratom Bars, and Smoke Shops Via LC/MS/MS</b> Michaela Clarke, MS*; Anthony DeCaprio, PhD; Leonardo Maya, PhD; Kenneth Furton, PhD
7:30 pm—9:00 pm	<b>L9</b>	<b>Designing an Analytical Method to Screen for Contaminants in Amanita Muscaria Gummies Using Triple Quadrupole LC/MS/MS</b> Abigail Van de Water, BS*; Marisia Fikiet, PhD; Robert Powers, PhD
7:30 pm—9:00 pm	<b>L10</b>	<b>The Development and Validation of a Method for the Quantitative and Qualitative Analysis of Psychedelic Compounds in Antemortem and Postmortem Blood Using Liquid Chromatography/Tandem Mass Spectrometry</b> Paige Riley-Carrier, MS*; Rebecca Wagner, PhD
7:30 pm—9:00 pm	<b>L11</b>	<b>Dissociation by Design: LC/MS/MS Detection and Validation of Phencyclidine, Ketamine, Metabolites, and Novel Structural Analogs in Blood and Urine</b> Andrea Bernal, BS*; Britni Skillman, PhD
7:30 pm—9:00 pm	<b>L12</b>	<b>Ethanol Inhibition of Morphine Glucuronidation</b> Supraja Regunathan, BS*; Na Liu, PhD; Robert Powers, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)

# TOXICOLOGY

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- 7:30 pm—9:00 pm **L13** **The Extraction of Novel and Traditional Stimulants From Blood Using Protein Precipitation and Dispersive Pipette XTRaction for Liquid Chromatography/Triple Quadrupole Mass Spectrometry Analysis**  
Alexus Ceasar-Walker, BS\*; Eduardo Geraldo de Campos, PhD
- 7:30 pm—9:00 pm **L14** **Fluorescent Detection of Heroin Using a Molecularly Imprinted Chitosan–UiO66 Metal Organic Framework (MOF)–Carbon Dot Hybrid Sensor**  
Somayeh Mohammadi, PhD\* Hamidreza Sharifan, PhD
- 7:30 pm—9:00 pm **L15** **Forensic Toxicology on a Pre-Skeletonized Body: A Case Report on the Use of Multiple Biological Matrices**  
Anna Antonia Capurso, MD\*; Domenico Urso, MD; Valeria Santoro, MD, PhD;  
Francesco Introna, MD, PhD; Francesco Paolo Busardò, MD, PhD
- 7:30 pm—9:00 pm **L16** **The Identification of the Novel Non-Opioid Analgesic Suzetrigine in Whole Blood and Urine using Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)**  
Isabelle Parry, BS\*; Britni Skillman, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 7:30 pm—9:00 pm **L17** **An LC/MS/MS Analysis of Nitazenes**  
Hannah Kruse, MPS\*; William Campbell, PhD; Lucas Madak, BS
- 7:30 pm—9:00 pm **L18** **A Lethal Intake of Cocaine: Accidental or Suicide? The Presentation of a Case After a Review of the Literature**  
Giulia Ricchezza\*; Alice Cerioni, PhD; Erika Buratti, PhD; Rino Foldi, MS;  
Roberto Scendonì, MD, PhD; Gianmario Mietti, PhD
- 7:30 pm—9:00 pm **L19** **Lethal Sodium Nitrite Intoxication: The Contribution of Immunoistochemical Markers**  
Roberta Bibbò, MD\*; Stefania De Simone, PhD; Alessandro Santurro, MD, PhD;  
Giovanni Pollice, MD; Maria Antonella Bosco, MD; Francesco Orsini, MD
- 7:30 pm—9:00 pm **L20** **Liquid Chromatography-Tandem Mass Spectrometry Analysis of Natural and Semi-Synthetic Cannabinoids in Authentic Postmortem Blood Samples**  
Marco Ballotari, PhD\*; Michael T. Truver, PhD; Jennifer Hoyer, MS; Chris Chronister, PhD;  
Bruce Goldberger, PhD
- 7:30 pm—9:00 pm **L21** **Methods of Separating Isomers of Fentanyl Analogs Via High-Performance Liquid Chromatography**  
David Cirotta, MPS\*; William Campbell, PhD; Margaret Frohnhoefer, BSc
- 7:30 pm—9:00 pm **L22** **WITHDRAWN**
- 7:30 pm—9:00 pm **L23** **Postmortem Electrolyte Profiling as a Forensic Biomarker: Differentiating Causes of Death**  
Ji Eun Jung, PhD\*; Songhie An, PhD; Wooyong Park, MSc; Geum Mun Nam, PhD;  
Eunhui Park, MSc
- 7:30 pm—9:00 pm **L24** **Potency Testing for 24 Cannabinoids in Hemp and Cannabis-Infused Products**  
Mingjing Sun, PhD\*
- 7:30 pm—9:00 pm **L25** **Quadrupole Time-Of-Flight vs. Orbitrap: Scoring High Resolution Mass Spectrometry Performance for New Psychoactive Substance Screening in Human Matrices**  
Akshita Verma, MS\*; Anthony DeCaprio, PhD; Natalia Soares Quinete, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*

# TOXICOLOGY

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- 7:30 pm—9:00 pm **L26** **A Rapid LC/MS/MS Analysis of EtG and EtS in Urine**  
Samantha Herbick, MFS\*; Jamie York, PhD; Jared Burkhart, BSc
- 7:30 pm—9:00 pm **L27** **WITHDRAWN**
- 7:30 pm—9:00 pm **L28** **A Review of Xylazine-Related Deaths Over a Two-Year Period at the West Tennessee Regional Forensic Center**  
Anfisa Baiandurova, MD\*; Danielle Harrell, DO
- 7:30 pm—9:00 pm **L29** **Screening for Nitazene Analogs Using Neutral Losses and Common Fragments by Liquid Chromatography/Quadrupole Time-of-Flight/Mass Spectrometry**  
Angelique McDowell, BS\*; Barry Logan, PhD; Alex Krotulski, PhD; Joshua DeBord, PhD
- 7:30 pm—9:00 pm **L30** **Semi-Synthetic Cannabinoids: The Newest Challenge in Analyzing THC Isomers**  
Jared Burkhart, BSc; Haley Berkland, MSFS\*
- 7:30 pm—9:00 pm **L31** **A Stability Assessment of Nitazenes in Aqueous Solutions for the Development of Sample Preparation Procedures**  
Sara Kuberski, BS\*; Britni Skillman, PhD
- 7:30 pm—9:00 pm **L32** **Substance Consumption Informative Research (SCIRe): Testing Hair From Electronic Music Festivals**  
Ana Pego, PhD\*; Bruno Pereira dos Santos, MSc; Marta Concheiro-Guisan, PhD; Joao Pedro Matias, MS; Sarah Eller, PhD; Tiago Franco de Oliveira, PhD
- 7:30 pm—9:00 pm **L33** **Teaching Undergraduates Toxicology Skills Via a Mock Urinalysis LC/MS/MS Protocol**  
George Cattan\*; Nina Ratusznik, BS; Anna Duggar, PhD; CJ Stephenson, PhD; Michael Sosin, MSc
- 7:30 pm—9:00 pm **L34** **The Chiral Separation of Hexahydrocannabinol (HHC) Metabolites Reveals 9S-4'OH-HHC as Major Urinary Side-Chain Hydroxylation**  
Markus Roman, BSc; Wu Xiongyu, PhD; Henrik Gréen, PhD; Robert Kronstrand, PhD\*
- 7:30 pm—9:00 pm **L35** **Tracking Toxicity: A Preliminary Forensic-Epidemiological Overview of Drug-Related Deaths in Northwestern Italy (2012–2024)**  
Federica Trevisoi, MD\*; Valentina Martini, MSc; Guido Viel, MD, PhD; Luca Morini, PhD; Camilla Torriani, MSc; Maria Cristina Monti, PhD
- 7:30 pm—9:00 pm **L36** **Urine Drug Testing in a Few Drops: Assessing Dried Urine Spots for the Detection of Synthetic Cathinones Using Liquid Chromatography/Triple Quadrupole/Mass Spectrometry**  
Julia Hintermeister, BA\*; Eduardo Geraldo de Campos, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 pm—9:00 pm **L37** **Using the New Stellar Mass Spectrometer and Automated Extraction for Drugs of Abuse Testing in Whole Blood**  
Courtney Patterson, MS\*; Jingshu Guo, PhD; Kerry Hassell, PhD
- 7:30 pm—9:00 pm **L38**  **$\Delta^9$ -THCP and  $\Delta^9$ -THCH Biomarkers Formed by Human Liver Microsomes**  
Kathryn James, BS\*; Alaina Holt, PhD; Michelle Peace, PhD; Justin Poklis, BS  
(FSF Emerging Forensic Scientist Award Poster Presentation)

# TOXICOLOGY

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## Thursday

### Annual Lectureship in Toxicology

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Moderator: Svante Vikingsson, PhD

Co-Moderator: Curt Harper, PhD

8:30 am—8:35 am		<b>Welcome &amp; Introductions</b>
8:35 am—9:45 am		<b>Invited Lectureship: Cannabis and Cannabinoids Landscape in Recent Years</b>
9:45 am—10:15 am	<b>L39</b>	<b>An Update on Standards Development Activities in Forensic Toxicology</b> Marc LeBeau, PhD*
	<b>L40</b>	<b>WITHDRAWN</b>
10:15 am—10:30 am		<b>BREAK</b>

### Drugs and Driving

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Moderator: Kayla Neuman, MS

Co-Moderator: Curt Harper, PhD

10:30 am—10:45 am	<b>L41</b>	<b>Expiration, Collection, and Storage: A Multi-Factor Investigation of Blood Alcohol Testing</b> Sarah Douglas, MS; Roth Woolley, BS* <i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>
10:45 am—11:00 am	<b>L42</b>	<b>Behind the Calm: Benzodiazepines in Blood and Oral Fluid Samples in Alabama</b> Kristin Umstead, BS*; Curt Harper, PhD
11:00 am—11:15 am	<b>L43</b>	<b>Bromazolam in Driving Investigations: An Update</b> Jolene Bierly, MSFS*; Donna Papsun, MS; Barry Logan, PhD
11:15 am—11:30 am	<b>L44</b>	<b>The Detection of Fluorofentanyl in Urine Driving Under the Influence (DUI) Cases</b> Kenson Jean, BS*; Kristin Kahl, MS; Lisa Reidy, PhD
11:30 am—1:00 pm		<b>BREAK</b>

### Multidisciplinary Session: Pathology/Biology and Toxicology

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Moderator: Laura Labay, PhD

Co-Moderator: Ponni Arunkumar, MD

1:00 pm—1:15 pm	<b>L45</b>	<b>Postmortem Hair Testing for Fentanyl and Analogs: Experimental, Forensic, and Interpretative Aspects</b> Nicola Pigaiani, MD, PhD* Marco Ballotari, PhD; Federica Bortolotti, MD, PhD; Gregory Davis, MD; Rossella Gottardo, PhD; Karen Scott, PhD
1:15 pm—1:35 pm	<b>I92</b>	<b>A Forensic Investigation of Kratom-Related Fatalities: The Mitragynine Paradox</b> Giulia Bambagiotti, MD*; Diletta Berardinelli, PhD*; Eva Montanari, PhD; Prentiss Jones, PhD; Gary W. Kunsman, PhD; Francesco Paolo Busardò, MD, PhD; Marilyn A. Huestis, PhD
1:35 pm—1:50 pm	<b>L46</b>	<b>MDMA Toxicity: A Fatal Case of Ayus-Arieff Syndrome</b> Chiara Carsana, MD*; Bianca Beltrame, MD*; Andrea Verzeletti, MD, PhD; Mauro Minoli, BPharm; Lorenzo Franceschetti, MD, PhD

# TOXICOLOGY

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- 1:50 pm—2:05 pm      **L47**      **Positivity of Clonazepam and 7-Aminoclonazepam in DUI Versus Postmortem Casework: Microbial Biotransformation as a Pre-analytical Factor**  
Haley Bibey, MSFS\*; Donna Papsun, MS; Brittany Casey, PhD; Shayna Kasher, MSFS  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 2:05 pm—2:20 pm      **L48**      **“The Matrix”: Is the Brain Suitable to Overcome PM Redistribution in Cocaine Overdoses?**  
Pascale Basilicata, PhD; Mariagrazia Marisei, MD\*; Maria Pieri, PhD\*; Angela Silvestre, PhD;  
Angela Simonelli, PhD; Rossella Guadagni, PhD
- 2:20 pm—2:35 pm      **L49**      **Unintentional Fentanyl Overdoses Among Cocaine Users: Investigating “Powder and Rock Confusion” Through a Scene-Integrated Toxicological Model**  
Emily Dalgo, MA; Alana Golding, BS\*; Maria Esquivel, BA\*; Rhonda Mittenzwei, MD\*
- 2:35 pm—2:55 pm      **I93**      **Trends in Cannabinoid Positivity in Fatal Motor Vehicle Collisions: A Retrospective Toxicological Analysis in Connecticut (2018–2024)**  
Stacy Thomas, MD, PhD\*; James Gill, MD; Amanda Mohr, MS; Michelle Clark, MS; Susan Ely, MD
- 2:55 pm—3:10 pm      **L50**      **Ketamine-Induced Nephritis and Cystitis: A Forensic Autopsy Case Report**  
Kanokphun Chaisaksiri, MD\*; Peerayuht Phuangphung, MD, PhD; Ngoentra Tantranont, MD;  
Sakda Sathirareuangchai, MD
- 3:10 pm—3:30 pm      **BREAK**

## Cannabinoids

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Moderator: Jennifer Limoges, MS

Co-Moderator: Jessemia Meekins, BS

- 3:30 pm—3:45 pm      **L51**      **The Fog of Regulation: Adverse Events and Cannabinoid Products**  
Kelsey Moss, BS\*; Alaina Holt, PhD; Michelle Peace, PhD; Justin Poklis, BS
- 3:45 pm—4:00 pm      **L52**      **Exploring the Prevalence of Delta-8 THC in the United States: A Comprehensive Review Across Multiple Matrices and Casework Populations**  
Jennifer Swatek, MS\*; Samantha Curran, BS; Ayako Chan-Hosokawa, MS
- 4:00 pm—4:15 pm      **L53**      **High Hopes: Assessing Label Accuracy and Microbiological Contamination of Cannabis Vapes**  
Logan Peters, BS\*; Ankita Gola, BS; Michelle Peace, PhD; Alaina Holt, PhD; Justin Poklis, BS  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*
- 4:15 pm—4:30 pm      **L54**      **Chemical Roulette: The Safety Gamble of Over-the-Counter Nutraceuticals**  
Lillie Thomas, MS\*; Justin Poklis, BS; Michelle Peace, PhD
- 4:30 pm—4:45 pm      **L55**      **Analysis of  $\Delta^8$ -Tetrahydrocannabinol,  $\Delta^9$ -Tetrahydrocannabinol, and Cannabidiol Metabolites in Authentic Meconium Samples**  
Marco Ballotari, PhD\*; Michael T. Truver, PhD; Bruce Goldberger, PhD; Sarah Bartock, PhD;  
Wen Dui, PhD; Kay Roussos-Ross, MD
- 4:45 pm—5:00 pm      **L56**      **The Laboratory Impact of a Paradigm Shift in Reporting Postmortem Cannabinoids**  
Shayna Kasher, MSFS\*; Daniel Isenschmid, PhD; Donna Papsun, MS; Sherri Kacinko, PhD; Haley Bibey, MSFS

# TOXICOLOGY

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## Friday

### Analytical Advancements

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Moderator: Michele Crosby, PhD

Co-Moderator: Elisa Shoff, MS

- 8:30 am—8:45 am      **L57**      **A Comparison of Selectivity and Peak Shape of Forensically Relevant Compounds Between Four Column Types**  
Margaret Frohnhoefer, BSc\*; William Campbell, PhD
- 8:45 am—9:00 am      **L58**      **Tiny Samples, Big Impact: Detecting Prenatal Alcohol Exposure Using PEth in Dried Blood Spots and LC/MSMS**  
Stephanie Rodriguez, BS\*; Baylee Clore, BS; Marta Concheiro-Guisan, PhD
- 9:00 am—9:15 am      **L59**      **Sealed Syringe Rotation Saturation Improves Safety and Efficiency in Postmortem CO-Hb Measurement**  
Songhie An, PhD\*; Yujeong Kim, PhD; Wooyong Park, MSc
- 9:15 am—9:30 am      **L60**      **Strategies for Mitigating the Effects of High Gabapentin Concentrations in Urine Specimens**  
Haley Berkland, MSFS\*
- 9:30 am—9:45 am      **L61**      **The Optimization and Validation of a Method for Detecting Single Doses of Diphenhydramine in Hair From a Controlled Dosing Study**  
Kaylyn Keith, MS\*; Anthony DeCaprio, PhD
- 9:45 am—10:00 am      **L62**      **Analyzing the Impact of Centrifugation and Sample Preparation on Drugs of Abuse in Oral Fluids**  
Samantha Herbick, MFS\*; Jared Burkhardt, BSc
- 10:00 am—10:15 am      **L63**      **The Critical Role of Ascorbic Acid and Sodium Fluoride Preservative in the Stability of 4-PrO-DMT in Blood**  
Christopher McGrowder, BS\*; Marta Concheiro-Guisan, PhD
- 10:15 am—10:30 am      **BREAK**

### Novel Psychoactive Substances

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Moderator: Amanda Jenkins, PhD

Co-Moderator: Madison Schackmuth, PhD

- 10:30 am—10:45 am      **L64**      **Nitazene Analogs Placed Under Generic Control in China: Understanding the Framework and Preparing for the Next Novel Synthetic Opioid Wave**  
Alex Krotulski, PhD\*; Sara Walton, MS; Donna Papsun, MS; Joshua DeBord, PhD; Barry Logan, PhD
- 10:45 am—11:00 am      **L65**      **Pharmacodynamic Effects and Plasma Pharmacokinetics of N,N-Dimethyltryptamine (DMT) After Intranasal Versus Subcutaneous Administration in Male Rats**  
Sara Walton, MS\*; Michael Baumann, PhD; Alex Krotulski, PhD; Grant Glatfelter, PhD; Christopher Witowski, PhD; Jacqueline von Salm, PhD
- 11:00 am—11:15 am      **L66**      **The Prevalence of Other Additive Novel Psychoactive Substances and Polydrug Positivity in Clinical Urine Specimens**  
Jillian Neifeld, MS\*; Theresa Meli, MS; Sarah Bartock, PhD; Alicia Bland, MS; Michael Smith, PhD

# TOXICOLOGY

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11:15 am—11:30 am    **L67**    **The Emergence of Synthetic Cannabinoids in Maryland Correctional Facilities: 2023–2025**  
Stephanie Dean, MD\*; Jack Titus, MD; Rebecca Phipps, PhD\*

11:30 am—1:00 pm    **BREAK**

## **Pediatric Toxicology**

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Moderator: Nikolas Lemos, PhD

Co-Moderator: Timothy Rohrig, PhD

1:00 pm—3:00 pm    **L68**    **Pediatric Postmortem Forensic Toxicology: Children Are Not Small Adults**  
Nikolas Lemos, PhD\*; Timothy Rohrig, PhD; Kari Midthun, PhD; Carl Schmidt, MD;  
D. Kimberley Molina, MD; Sarah Riley, PhD

# LAST WORD SOCIETY

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## Thursday

Moderator: *Kenneth Melson, JD*

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| 8:00 pm—8:20 pm  | <b>LW1</b> | <b>Olof: Ancestors Heir or Disney Snowman? Solving Something Cold</b><br>Cathryn Fahey, BS; Daren Boyd, BS*; Tamara Mick, MS; Katherine White, BSc;<br>Janey Dunn, MScFS; Jerrie Northrup, BS                                |
| 8:20 pm—8:40 pm  | <b>LW2</b> | <b>America 250: Forensic Science and the Hessian Soldiers' Remains "Intrenched" in a Mass Grave at Red Bank Battlefield, Gloucester County, New Jersey</b><br>Thomas Crist, PhD*; Anna Delaney, DCrim; Stuart Alexander, DMD |
| 8:40 pm—9:00 pm  | <b>LW3</b> | <b>Many Minds or Many Frauds? The Insane Case of Billy Milligan</b><br>George Annas, MD, MPH*  |
| 9:00 pm—9:20 pm  | <b>LW4</b> | <b>The Loaded Case of the Banned Bullet</b><br>Maria Nektaria Antoniou, LLM, MSt*; Nicholas Marquez-Grant, PhD; Rick Schulting, PhD  |
| 9:20 pm—9:40 pm  | <b>LW5</b> | <b>The (Not Always) Good Old Times: The Inquisition as the Basis of Modern Forensic Investigation</b><br>Matteo Borrini, PhD*; Vincenzo Lusa, JD   |
| 9:40 pm—10:00 pm | <b>LW6</b> | <b>Where in the World Are All These Skeletons From? Anthropology, Odontology, Stable Isotopes, and Ethics</b><br>Wolf Bueschgen, DMD*; Suzanne Abel, PhD   |

# YFSF POSTER SESSION

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## Wednesday

### Poster Session

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- 11:30 am—1:00 pm      **Y1**      **The Feasibility of Using ATR/FTIR for the Differentiation of Different Brands of Brown Eyeliners**  
Urja Desai, MS\*
- 11:30 am—1:00 pm      **Y2**      **WITHDRAWN**
- 11:30 am—1:00 pm      **Y3**      **A Comparative Analysis of Textile Damage Caused by Canines vs. Firearms and Knives**  
Tabitha Hammond, BS\*; Sandra Koch, PhD; Lawrence Quarino, PhD; Andra Lewis, PhD
- 11:30 am—1:00 pm      **Y4**      **Investigating the Patterning of 202Fractures in Human Dentition**  
Bec Krolczyk, BS\*; Danny Wescott, PhD
- 11:30 am—1:00 pm      **Y5**      **The Differentiation and Identification of Fentanyl Analogs Using Portable Ion Trap Mass Spectrometry**  
Mei Yuan, BS\*; Ella M. Galvan, BS; Jeffery D. Johnson, Jr., PhD; Seth Fisher, BS;  
Pauline E. Leary, PhD ; Brooke W. Kammrath, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm      **Y6**      **Comparative Evaluation of Machine Learning Models for Criminal Attribute Estimation: Explainable AI Perspectives**  
Daisuke Imoto, PhD\*; Kazuki Hirama, PhD; Kengo Furuhashi, PhD; Yusuke Otsuka, MPhil;  
Kaeko Yokota, PhD; Masakatsu Honma, PhD
- 11:30 am—1:00 pm      **Y7**      **A Bloody Window to the Past: STR Analysis of DNA From a Bloodstained Civil War Surgical Table**  
Nadia Walter\*; Alyssa Spillar, BS; J. Thomas McClintock, PhD; Kristin Mossé, MScFS;
- 11:30 am—1:00 pm      **Y8**      **Direct Analysis of Ink on Documents and Other Substrates Using Attenuated Total Reflectance Fourier Transform Infrared Microscopy**  
Sophie Krumhansl, APM\*; Cadence Manning, APM\*; Boluwatife Olubusoye, BS;  
James Cizdziel, PhD
- 11:30 am—1:00 pm      **Y9**      **Understanding Sleep-Related Infant Deaths: A Forensic Perspective on SIDS, SUID, and Safe Sleep Practices**  
Sandra Shapiro, DNP\*; Rachel Thomas, PhD; Orli Grinstein-Cohen, PhD
- 11:30 am—1:00 pm      **Y10**      **Utilizing Fourier Transform Infrared Spectroscopy for Age-at-Death Estimations in Human Skeletal Remains: A Pilot Study**  
Anna K. Maier, MSc\*
- 11:30 am—1:00 pm      **Y11**      **A Field-Ready Method for Wildlife Identification Using Noninvasive Genetic Sampling**  
Rosemary van der Net, BS\*; Pamela Marshall, PhD; Jan Janecka, PhD; Joshua Robinson, MS; Andrea Kautz, MS; Joseph Saxfield, BS
- 11:30 am—1:00 pm      **Y12**      **A New Spin on DNA Extraction: Validating SpermX™ GenSpin Differential Extraction for Sexual Assault Evidence Processing**  
Tori Tyree, BS; Amy McGuckian, MFS; Julie Sikorsky, MSc; Kelly Beatty, MSFS

# YFSF POSTER SESSION

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11:30 am—1:00 pm	<b>Y13</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y14</b>	<b>Revisiting the Resolution and Accuracy of Year-of-Birth Estimations Based on Bomb Pulse Radiocarbon (<sup>14</sup>C) Dating of Human Enamel</b> Camille Martin, BA*; Rhonda Quinn, PhD
11:30 am—1:00 pm	<b>Y15</b>	<b>Fungal Succession During Decomposition: A DNA-Based Analysis of Forensic Significance</b> Lewis Burnett*; Brittney Sylvester; Latavia Williams; Alyssa Lavasseur; Georgia Williams, MS; Meiko Thompson, PhD
11:30 am—1:00 pm	<b>Y16</b>	<b>Exposing Forgery: Ink Analysis via Raman Spectroscopy</b> Alex Potter, MSFS*; Ellen Hondrogiannis, PhD; Mary Devadas, PhD
11:30 am—1:00 pm	<b>Y17</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y18</b>	<b>Accuracy of the Transition Analysis 3 (TA3) Method for Age Estimation in the John A. Williams Human Skeletal Collection</b> Blue Wonhof, MS*
11:30 am—1:00 pm	<b>Y19</b>	<b>Visual Examination of Physical Properties of Blood as a Result of Ignitable Liquid and High Heat Affect From an Arson Scene</b> Victoria Bascou, BS*;
11:30 am—1:00 pm	<b>Y20</b>	<b>The Quantitation of Organic Compounds in Smokeless Powder Using High-Performance Liquid Chromatography</b> Kayla South, BS*; Ellen Hondrogiannis, PhD
11:30 am—1:00 pm	<b>Y21</b>	<b>Network Graphs for Visualizing Handwriting Individuality</b> Clarissa Giefer, MS*; Cami Fuglsby, PhD; Janean Hanka, MS; Jack Hietpas, PhD; JoAnn Buscaglia, PhD; Christopher Saunders, PhD
11:30 am—1:00 pm	<b>Y22</b>	<b>Direct Analysis in Real Time Tandem Mass Spectrometry (DART-MS/MS) for the Characterization and Profiling of Street-Level Fentanyl Samples</b> Joel Moss*; Alexis Quinter, MASC; Heather Harris, MFS; Nicholas Khorozov, MS; Joshua DeBord, PhD
11:30 am—1:00 pm	<b>Y23</b>	<b>Investigating the Effects of Soil pH and Fluoride Content on Hydroxyapatite Degradation Using pXRF Technology</b> Madeline June Leeah, BA*;
11:30 am—1:00 pm	<b>Y24</b>	<b>When Experts Lie: Fraudulent Forensics, Wrongful Convictions, and the Call for Basics and Reform</b> Megan Cramer*; Jordan Stephens*
11:30 am—1:00 pm	<b>Y25</b>	<b>Analysis of Smokeless Powder Using Infrared and Uv-Visible Spectroscopy With a Focus on Nitrated Derivatives of Diphenylamine</b> Meredith Elko*; Ellen Hondrogiannis, PhD; Mary Devadas, PhD
11:30 am—1:00 pm	<b>Y26</b>	<b>Suicide by Sodium Nitrite/Nitrate: A 10-Year Retrospective Review</b> Rachel Guest, MD*; John Powell, MD

# YFSF POSTER SESSION

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- 11:30 am—1:00 pm **Y27** **DNA Extraction From Bone: A Novel Workflow Using Theralin™ and Magnetic Beads**  
Marguerite Godwin, BS\*; Mark Wilson, PhD; Charla Marshall, PhD; Joseph DiZinno, DDS
- 11:30 am—1:00 pm **Y28** **The Application of ATR-FTIR Spectroscopy for the Identification of Cosmetic Foundations Versus Environmental Materials Such as Food or Soil on Cloth**  
Jaden Force, BS\*; Kelly Elkins, PhD
- 11:30 am—1:00 pm **Y29** **Optimizing DNA Extraction and Communicating PhenoTrivium Panel Results for Cold Case Skeletal Samples**  
Madison Townsend, BS\*; Britannia Bintz, MS; Maureen Hickman, MS; Tiffany Fracchia, PhD; Alice Gooding, PhD; Frankie West, PhD
- 11:30 am—1:00 pm **Y30** **The Development of Recombinase Polymerase Amplification (RPA) to Augment mini STR Amplification of 'Touch' DNA Samples for Human Identification (HID) Workflows**  
Joseph Rahm, MSFS\*; DeEtta Mills, PhD
- 11:30 am—1:00 pm **Y31** **Investigating the Correlation Between Body Mass and Hip Joint Measurements in a Taiwanese Non-Adult Sample**  
Rachel Riddell, BA; An-Di Yim, PhD
- 11:30 am—1:00 pm **Y32** **Basic Tools, New Approaches: Using Mandibular Canine Index and 3D Imaging for Subadult Sex Determination**  
Jorja Hill\*; Satu Valoriani, PhD
- 11:30 am—1:00 pm **Y33** **Differentiating Blunt Force Trauma Fractures From Thermal Fractures in Fleshed and Skeletal Deer Heads**  
Alyssa Ranney, MS\*
- 11:30 am—1:00 pm **Y34** **Evaluating IR Spectra Variation of Pepper Based Defense Products**  
Jocelyn Polanco, BS\*
- 11:30 am—1:00 pm **Y35** **Enhancing Forensic Toxicology Through Postmortem Applications: Evaluating the Viability of Skin Swabbing as a Drug Testing Matrix**  
Hannah Schaeffer, BS\*; Abigail Burke, MS; Rebecca Wagner, PhD; Jennifer Hammers, DO; Stephanie Wetzel, PhD

## Thursday

### Poster Session

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- 11:30 am—1:00 pm **Y36** **Color Spectrophotometer as a Powerful Tool to Evaluate Human Fluid Stains on Denim Fabrics**  
Shelby Barrager\*; Mazeyar Parvinzadeh Gashti, PhD
- 11:30 am—1:00 pm **Y37** **WITHDRAWN**
- 11:30 am—1:00 pm **Y38** **Towards Mass Spectrometry Imaging of Latent Prints Using Visible Matrix-Assisted Laser Desorption Electrospray Ionization**  
Julia Morelli\*; Kenyon Evans-Nguyen, PhD
- 11:30 am—1:00 pm **Y39** **Assessing the Prevalence of p-Phenylenediamine in Henna Tattoo Inks Purchased in Northern Delaware**  
Lael Sands\*; Muhammed Taimoor Chaundry, MPhil; Tom Gluodenis, PhD; John Stallworth, BS

# YFSF POSTER SESSION

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- 11:30 am—1:00 pm    **Y40**    **Petroleum-Utilizing and Hemolytic Soil Microbes: Environmental Impacts on Decomposition in Forensic Contexts**  
Tristen Howell\*; Lewis Burnett; Brittney Sylvester; Latavia Williams; Georgia Williams, MS; Meiko Thompson, PhD
- 11:30 am—1:00 pm    **Y41**    **The Evaluation and Comparison of Portable FTIR/Raman Instruments for Field Testing of Illicit Drugs**  
Sydney Ma, BS\*; Alexandra Evans, MFS; Ya-Chih (Jessica) Cheng, PhD; Ira Lurie, PhD
- 11:30 am—1:00 pm    **Y42**    **Microbial Succession in Uncovered Remains: Establishing a Baseline for Postmortem Interval Estimation**  
Diamon Raymond\*; Brittney Sylvester; Latavia Williams; Alyssa Lavasseur; Georgia Williams, MS; Meiko Thompson, PhD
- 11:30 am—1:00 pm    **Y43**    **The Determination of Neurotransmitter Levels in Rat Brain Following Opioid-Sedative Exposure Using Liquid-Chromatography Quadrupole-Time-of-Flight Mass Spectrometry**  
Laerissa Reveil, MS\*; Maria Lasaosa, PhD; Amanda Furman, MS; Alia Marie Iqbal O'Meara, MD; Matthew Halquist, PhD
- 11:30 am—1:00 pm    **Y44**    **Using Positive and Negative Image Overlap for Image Forensics: Examples From Taiwan**  
Teng-Kai Shih, BASc\*; Min-Neng Hsu, PhD; Wen-Chao Yang, DSc; Wen Chung Chen, LLM; Yi Fang, MSc
- 11:30 am—1:00 pm    **Y45**    **Vitreous Fluid as a Stable Matrix for Postmortem Toxicology**  
Miriam Fisher, MD\*; Ben Murie, MD
- 11:30 am—1:00 pm    **Y46**    **The Effects of Latent Print Development Techniques on Over-the-Counter Drug Detection by Liquid Chromatography Triple Quadrupole Mass Spectrometry**  
Jessica Pichat, BS\*; Ashley Ebert, PhD; Lyndsie Ferrara, PhD; Stephanie Wetzel, PhD
- 11:30 am—1:00 pm    **Y47**    **Lying Labels? An Analysis of Caffeine Content in Common United Kingdom Caffeinated Products**  
Noah Cannon\*; John Paul Planchet\*; Carolina Sartori\*
- 11:30 am—1:00 pm    **Y48**    **An Assessment of the FARO Freestyle 2 Handheld Scanner on Skeletal Analyses in the Estimation of the Biological Profile**  
Chloe R. Cummings, BS\*; An-Di Yim, PhD  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am—1:00 pm    **Y49**    **Vicarious Trauma and its Effects on Public Safety Professional's Ability to Complete Unbiased Investigations**  
Madison Turner\*; Kelly Crockett, MSFS
- 11:30 am—1:00 pm    **Y50**    **An Evaluation of Immunoassay Test Strips for Detection of Medetomidine in Urine and Drug Products**  
Liliane Audet, BS\*; Alex Krotulski, PhD; Heather Harris, MFS; Alyssa Reyes, MS
- 11:30 am—1:00 pm    **Y51**    **An Evaluation of Alternative Solvents for Forensic Fire Debris Analysis**  
Tessa Monroe\*; Jenna Leppke, BS; Hannah LaVoie, BS; Ruth Waddell Smith, PhD; Kenyon Evans-Nguyen, PhD
- 11:30 am—1:00 pm    **Y52**    **An Evaluation of Vapor Pressures of Ignitable Liquids, Water and Fire Debris Analysis, and the Effects on Extraction**  
Carson Kleider, BS\*

# YFSF POSTER SESSION

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11:30 am—1:00 pm	<b>Y53</b>	<b>A Quick Method of Measuring Bullet Angles on Auto Metal Surface at Crime Scenes: A Novel Method Using a Digital Angle Measurer</b> Heather Armistead, BS; John Wang, PhD*
11:30 am—1:00 pm	<b>Y54</b>	<b>Developmental Changes in Frontal Sinus Morphology: Significance in a Forensic Context</b> Allison L. Deemter, MA*
11:30 am—1:00 pm	<b>Y55</b>	<b>Single Step Fingerprint Fumigation With Common Dyes</b> Abigail Proffitt*; Jared Filegar*; Kristin Mossé, MSFS
11:30 am—1:00 pm	<b>Y56</b>	<b>When Cleanliness Obscures: How Can Common Disinfecting Cleaners Hinder Forensic Investigations?</b> Shaifer Goalen, BS*; Kristin Ornelas
11:30 am—1:00 pm	<b>Y57</b>	<b>A Comparison of Genetic Analysis Methodologies on Spermatozoa DNA Recovered From the Orifices of Burned Human Remains</b> Andrew Brown*; Brittania Bintz, MS; Darren Solomon, MS; David Schuable, BS; Charles Giblin, PE; Rebecca George, PhD
11:30 am—1:00 pm	<b>Y58</b>	<b>The Impact of Firearm Type and Orientation on Gunshot Residue Distribution Patterns on a Shooter</b> Emily Miller, BS*; Peter Valentin, PhD; Virginia Maxwell, DPhil, BSc; Virginia Maxwell, DPhil
11:30 am—1:00 pm	<b>Y59</b>	<b>Effects on Skeletonization and Skeletal Weathering Across Contrasting Annual Seasonal Cycles</b> Maeghan Fisher, BS*; Kristy Henson, PhD
11:30 am—1:00 pm	<b>Y60</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y61</b>	<b>An Evaluation of DNA Recovery From Fingernails Post-Hair Washing</b> Alexia A. Cassman, BS*; Tyra Volney, MS; Tim Kalafut, PhD <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>
11:30 am—1:00 pm	<b>Y62</b>	<b>Evaluating the Efficiency of Laundry Sanitizers on the Removal and Transfer of DNA in a Washing Machine</b> Nicole Agre, BS*; Rhonda Williams, PhD
11:30 am—1:00 pm	<b>Y63</b>	<b>An Expanded Evaluation of XRD and SEM-EDS for the Characterization of Inorganic Particles in Eyeshadows</b> Taylin Naquin*; Anna Duggar, PhD
11:30 am—1:00 pm	<b>Y64</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y65</b>	<b>The Development and Validation of an Analytical Method for the Determination of Stress Biomarkers in Hair</b> Brooke Fontaine, BS*; Alexis Palma*; Marta Concheiro-Guisan, PhD
11:30 am—1:00 pm	<b>Y66</b>	<b>A Forensic Approach to the Identification and Interpretation of Intimate Partner Violence (IPV) in Human Skeletal Remains</b> Catarina Vazquez*

# YFSF POSTER SESSION

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11:30 am—1:00 pm	<b>Y67</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y68</b>	<b>Attempting More Detailed Discrimination of Plants Using Next-Generation Sequencing</b> Ryuta Nakamura, MS*; Hitomi Kikkawa, PhD; Koichiro Tsuge, PhD
11:30 am—1:00 pm	<b>Y69</b>	<b>Unveiling the Interference of Alcohol Intoxication on Salivary Detection of Codeine: A UV/Vis Spectroscopic Insight</b> Danae Alvarez*; Madison Carrillo*; Hamidreza Sharifan, PhD
11:30 am—1:00 pm	<b>Y70</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y71</b>	<b>Homicide by Hot Dog: Choking in the Setting of Blunt Force Trauma of the Jaw by Another</b> Reece Foehr, BS*; Kayden Hadlock, BS; Katie Hanson, MD
11:30 am—1:00 pm	<b>Y72</b>	<b>Deadlining: Gentrification and the Spatial Forensics of Missing and Murdered Black Women in Washington, DC</b> Avery Bernard Johns*

## *Friday*

### Poster Session

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11:30 am—1:00 pm	<b>Y73</b>	<b>Identification of Ignitable Liquids in the Post-Fire Carpet Debris by Complementary GC-MS and DART-MS Methods</b> Mikayla Miles, BS*; Shruthi Perna, PhD; Ngee Chong, PhD; Mengliang Zhang, PhD
11:30 am—1:00 pm	<b>Y74</b>	<b>A Preliminary Study on How Shooting Distance and Lens Focal Length at Crime Scenes Affect Footwear Impression Examination</b> Wen Chung Chen, LLM*; Kuo Lan Liu, PhD; Min-Neng Hsu, PhD
11:30 am—1:00 pm	<b>Y75</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y76</b>	<b>Microbial Succession in Clothed Remains: Forensic Insights into Postmortem Interval Estimation</b> Brittney Sylvester <sup>8</sup> ; Latavia Williams; Lewis Burnett; Alyssa Lavoisier; Georgia Williams, MS; Meiko Thompson, PhD
11:30 am—1:00 pm	<b>Y77</b>	<b>Computationally-Guided Design of a Molecularly Imprinted Polymer for the Detection of Psilocybin in Unregulated Drug Products</b> Hannah Peterson, BS*; Balaji Nagarajan, APM; Matthew Halquist, PhD
11:30 am—1:00 pm	<b>Y78</b>	<b>Back to Basics: Approaching Cold Cases With Open-Source Intelligence: An Undergraduate Perspective</b> Maylynn Burns*; Kelly Crockett, MSFS; Maylynn Burns*
11:30 am—1:00 pm	<b>Y79</b>	<b>A Comparative Analysis of Volatile Memory Analysis Tools in Digital Forensics</b> Jaden McIntosh, BS*

# YFSF POSTER SESSION

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11:30 am—1:00 pm	<b>Y80</b>	<b>Bone and Tooth: Elemental Analysis of Cremated Remains</b> Ella Mitchell*; Dustin Holland*
11:30 am—1:00 pm	<b>Y81</b>	<b>ATR/FTIR Characterization of Pressure Sensitive Adhesives: Before and After Chemical Fingerprint Processing</b> Meagan MiguelPablo*; Khanh-Hoa Tran-Ba, PhD
11:30 am—1:00 pm	<b>Y82</b>	<b>Investigation of Gas Chromatography (GC) Coupled With Mass Spectrometry (MS) and Vacuum Ultraviolet (VUV) Spectroscopy for Analysis of Ignitable Liquid Samples</b> Bryn Boznanski, BS*; Ira Lurie, PhD; Walter Rowe, PhD
11:30 am—1:00 pm	<b>Y83</b>	<b>Protective and Risk Factors in Sex Trafficking</b> Sophia Thompson*
11:30 am—1:00 pm	<b>Y84</b>	<b>Determining the Feasibility of UV/Vis and ATR/FTIR in Identifying Neat Analytes in Smokeless Powders</b> Rorie Anderson, BS*; Ellen Hondrogiannis, PhD; Mary Devadas, PhD
11:30 am—1:00 pm	<b>Y85</b>	<b>Transfer of Material Derived From Polymer-Jacketed Bullets During Cycling and Discharge</b> Ethan Frazer, MS*; Peter Diaczuk, PhD
11:30 am—1:00 pm	<b>Y86</b>	<b>Microbes in the Mist: Microbiological Analysis of E-liquids and Aerosols</b> Ankita Gola, BS*; Jessemia Meekins, BS; Alaina Holt, PhD; Justin Poklis, BS; Christopher Ehrhardt, PhD; Michelle Peace, PhD
11:30 am—1:00 pm	<b>Y87</b>	<b>Microbial Succession in Buried Remains: A Controlled Pig Study at Three Feet Depth</b> Latavia Williams*; Brittney Sylvester; Alyssa Lavasseur; Lewis Burnett; Georgia Williams, MS; Meiko Thompson, PhD
11:30 am—1:00 pm	<b>Y88</b>	<b>Various Animal Species Microscopic Hair Analysis</b> Bryanna Smith*; Kristin Mossé, MSFS
11:30 am—1:00 pm	<b>Y89</b>	<b>An Investigation of Water Effect on Ignitable Liquid Residue Analysis by Coupling Solid-Phase Microextraction With Direct Analysis in Real Time Mass Spectrometry</b> Victoria Bascou, BS*
11:30 am—1:00 pm	<b>Y90</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y91</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y92</b>	<b>The Development of Preprocessing Workflow for Computed Tomography Images for Artificial Intelligence Applications in Forensic Anthropological Research</b> Gargi Jani, MSc*; Smit Patel, BEng; Mohendra Roy, PhD; Bhoomika Patel, PhD
11:30 am—1:00 pm	<b>Y93</b>	<b>Recalibrating Forensic Science: DNA, Microbial Signatures, and Methodological Equity in Montana's Differential Burial Contexts</b> Kaylee M. Hinds, MA*; Meradeth H. Snow, PhD
11:30 am—1:00 pm	<b>Y94</b>	<b>Microbial Succession in Carpet-Wrapped Remains: Implications for Postmortem Interval Estimation</b> Alyssa Lavasseur*; Brittney Sylvester; Latavia Williams; Lewis Burnett; Georgia Williams, MS; Meiko Thompson, PhD

# YFSF POSTER SESSION

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11:30 am—1:00 pm	<b>Y95</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y96</b>	<b>Optimizing Trace DNA Recovery: A Comparative Evaluation of Swab Types on Various Substrates</b> Mara Dominguez, BA*; Anna Franzoni, MSc; Nicole Novroski, PhD; Fabio Oldoni, PhD
11:30 am—1:00 pm	<b>Y97</b>	<b>Characterization of Microsatellite Markers for Forensic Identification of <i>Gypsophila</i></b> Laila Mansour*; Nathan Lents, PhD
11:30 am—1:00 pm	<b>Y98</b>	<b>WITHDRAWN</b>
11:30 am—1:00 pm	<b>Y99</b>	<b>Ear Lobe Crease as a Coronary Artery Disease Risk Stratification Tool in Autopsies of Asian Populations</b> Minjung Hong, MD*; Seong Ho Yoo, MD, PhD
11:30 am—1:00 pm	<b>Y100</b>	<b>Dermestid (Flesh-Eating) Beetle Effect on Skeletal Remains Study</b> Gabriella Ramm*; Kristy Henson, PhD
11:30 am—1:00 pm	<b>Y101</b>	<b>Sick as a Dog: A Case of a Missing Face</b> Maura Thurber, MHS*; Alexis Kollasch-McGarvey, MD; Eric Bracken, MS;; Dennis Firchau, MD; Robert Weis, MD; Melissa Blessing, DO
11:30 am—1:00 pm	<b>Y102</b>	<b>Forensic Differentiation of Canine Hair</b> Allison Kelley*; Kristin Mossé, MSFS
11:30 am—1:00 pm	<b>Y103</b>	<b>Taphonomic Processes Etch Bones: An Experimental Look at Plant Root Etching on Bovine Bones</b> Emily Caudill, BS*; Shannon Hodge, PhD; Thomas Holland, PhD
11:30 am—1:00 pm	<b>Y104</b>	<b>Surveillance Shopping of Unregulated Dual Chamber E-Cigarette Devices Assessing Accessibility and Consumer Risk</b> Kevin Lester*; Michelle Peace, PhD; Alaina Holt, PhD; Justin Poklis, BAS

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Kasher, Shayna - L47, L56  
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Navega, David - H13  
Panacea Cooperative Research S. Coop: Employee/Owner  
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Quest Diagnostics: Employee/Owner

## O

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Poulson, Jean - B152  
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Prahlow, Joseph - I7, I52, I53, I57, I79, I91, I150  
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Prasad, Anusha - B81  
Biosecure ID Limited: Employee/Owner  
Prasad, Yogesh - B81  
Biosecure ID Limited: Consultant/Advisory Board  
Forensics Found: Employee/Owner

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## R

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## S

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InnoGenomics Technologies, LLC: Employee/Owner

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Smith, Michael - L66  
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# BRING YOUR OWN SLIDES (PowerPoint®) BYOS.ppt

Wednesday Evening: 8:00 pm - 10:00 pm

In order to keep BYOS.ppt informal, fun, and informative for the large and diverse audience, here are a few things to keep in mind for the BYOS.ppt program at the 2026 AAFS Annual Scientific Conference in New Orleans, LA:

- Presentations must be in PowerPoint® format.
- Proposals must be submitted on this form accompanied by a "6-slides-per-page" printout of the presentation and an electronic copy on CD or flash drive.
- BYOS is not intended as a forum to present scientific papers. It is designed as a means to present interesting information and/or unusual case(s) that may be educational and blended with humor.
- Speakers should plan on 10 minutes in which to present their material.
- Material being presented in other parts of the AAFS scientific program will not be accepted.
- Tables, charts, and graphs should be avoided, making every effort to use slides of scenes, bodily findings, and evidence.

This completed form, a 6-slides-per-page printout, and the electronic presentation copy should be delivered to the on-site AAFS Registration Desk by 4:00 p.m. on Wednesday, February 11, 2026. Presentations will be selected and scheduled based on perceived interest to the audience and in the order in which the completed submissions are received. This form and required printout are needed to organize the BYOS.ppt program and to allow appropriate allocation of continuing education credit.

## BYOS PROGRAM FORM

Name and Degree(s): \_\_\_\_\_

Job Title: \_\_\_\_\_

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AAFS Section Affiliation (if none, write "none"): \_\_\_\_\_

The presentation is being offered primarily to:

- Solicit input/advice on a challenging case
- Present interesting information or case(s) for education purposes
- Entertainment

Presentation is:

- A single case
- A series of cases with a common topic
- Multiple cases with unrelated topics
- Other (please specify): \_\_\_\_\_

Briefly describe the material to be presented: \_\_\_\_\_

What are the major points to be emphasized?: \_\_\_\_\_

How will the attendees benefit from this presentation?: \_\_\_\_\_

Is there commercial interest in the material being discussed?:  No  Yes (if yes, please describe): \_\_\_\_\_

How much presentation time is required?: \_\_\_\_\_ minutes      How many PowerPoint® slides will be shown?: \_\_\_\_\_

Presenter's local hotel: \_\_\_\_\_ Room #: \_\_\_\_\_ Phone #: \_\_\_\_\_

U.S. Cell Phone: \_\_\_\_\_ Email you can access while at the meeting: \_\_\_\_\_

The BYOS agenda, scheduled presentation times, and continuing education credit hours will be posted near the BYOS meeting room.

\*\*\*\*\*

AAFS STAFF USE ONLY: Date Received: \_\_\_\_\_ Time: \_\_\_\_\_