



PROGRAM



February 19-24, 2024

Denver, Colorado

Colorado Convention Center

#AAFS2024



TABLE OF CONTENTS

Officers & Officials	3
Program Committee	3
General Information	4
Sexual Misconduct Resources and Information	5
Conference Extras	6
Awards	7
Section Awards	8
Business Meetings	9
Financial Contributors	10
Continuing Education	11
Diversity and Inclusion in Forensic Sciences Forum and Reception	13
Mentor Program Breakfast	13
Student Academy	14
Forensic Science Education Programs Accreditation Commission Session	16
Young Forensic Scientists Forum Special Session	17
Interdisciplinary Symposium	20
Keynote Address	22
Plenary Session	23
Justice Talks Case Break Sessions	25
Luncheon Seminars	33
Workshops	37
National Institute of Justice	76
Anthropology	80
Criminalistics	93
Digital & Multimedia Sciences	109
Engineering & Applied Sciences	113
Forensic Nursing Science	118
General	121
Jurisprudence	136
Odontology	140
Pathology/Biology	144
Psychiatry & Behavioral Science	157
Questioned Documents	160
Toxicology	162
Last Word Society	169
YFSF Poster Sessions	170
Bring Your Own Slides Form	176

OFFICERS AND OFFICIALS

President: C. Ken Williams, MS, JD
President-Elect: Christopher Thompson, MD
Past President: Laura Fulginiti, PhD
Vice President: Joanna Collins, MFS
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Secretary: Sarah Kerrigan, PhD

Anthropology: Gregory Berg, PhD
 Matthew Wood, PhD
 Marla Carroll, BS
Engineering & Applied Sciences: Helmut Brosz, BASc
Forensic Nursing Science: Jamie Ferrell, MBA
General: Claire Shepard, MS
Jurisprudence: Pamela King, JD
Odontology: Gary Bell, DDS
Pathology/Biology: Chris Milroy, MD, LLB
 Dean De Crisce, MD
 Linton Mohammed, PhD
 Dan Anderson, MS

Toxicology:

Chair: Krista Latham, PhD
Secretary: Debra Zinni, PhD

Chair: Joyce Williams, DNP
Secretary: Amy Carney, PhD

Chair: Jennifer Pechal, PhD
Secretary: Owen Middleton, PhD

Chair: Peter Diaczuk, PhD
Secretary: Sheree Hughes, PhD

Chair: Brian Janysek, MFS
Secretary: Gina Londino-Smolar, MS

Chair: Sebastien Prat, MD
Secretary: Giuseppe Troccoli, MD

Chair: Kathryn Seigfried-Spellar, PhD
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Secretary: Terry-Dawn Hewitt, LLM

Chair: James Green, BS
Secretary: Kevin Kulbacki, MSFS

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

Chair: Robin Ainsworth, DDS
Secretary: Denise Murmann, DDS

Chair: Amanda Mohr, MSFS
Secretary: Diane Moore, PhD

Program Chair: Matthew Wood, PhD
Program Co-Chair: Karen Rosenbaum, MD
Plenary Session: Vincent Desiderio, Jr., MS
 Dean De Crisce, MD
 Virginia Barron, JD
 Stephanie Domitrovich, JD, PhD

Poster Sessions: Marla Carroll, BS
 Melissa Connor, PhD
 Murrell Godfrey, PhD
 Kevin Kulbacki, MSFS

Luncheon Seminars: Emily Gottfried, PhD
 Carole Chaski, PhD

Last Word Society: Kenneth Melson, JD
 Carla Noziglia, MS

Bring Your Own Slides: J.C.U. Downs, MD
 Joseph Prahlow, MD

Student Academy: Lynn Schneeweis, MS
 Ginesse Listi, PhD

Interdisciplinary Symposium: Jessica Volz, DNP
 Adam Freeman, DDS

Local Arrangements: Michala Stock, PhD

Anthropology: Teresa Wilson, PhD
 Jaymelee Kim, PhD
 Agnes Winokur, MS
 Lynn Schneeweis, MS
 Josh Brunty, ScD
 Christina Malone, MSFS

Engineering & Applied Sciences: Kurt Weiss, MS
Forensic Nursing Science: Kelly Berishaj, DNP
 Laura La Cagnina, DNP

General: Erin Koester, MS
 Brian Clark, MFS

Jurisprudence: Leigh Tomlin, JD
 Colin Bellair, JD

Odontology: Phyllis Ho, DDS
Pathology/Biology: Lavinia Iancu, PhD

Corina Freitas, MD
 George Annas, MD, MPH

Gina Hunter, BS
 Brenda Lanners, BS

Toxicology: Dayong Lee, PhD
 Erin Karschner, PhD

GENERAL INFORMATION

Sunday	February 18	1:00 PM	-	5:00 PM
Monday	February 19	6:45 AM	-	5:00 PM
Tuesday	February 20	6:45 AM	-	6:00 PM
Wednesday	February 21	6:45 AM	-	5:00 PM
Thursday	February 22	6:45 AM	-	5:00 PM
Friday	February 23	6:45 AM	-	4:00 PM
Saturday	February 24	7:30 AM	-	11:00 AM

Wednesday	February 21	11:30 AM	-	4:00 PM
Thursday	February 22	9:00 AM	-	2:00 PM
AAFS Reception	(Exhibits Open)	6:00 PM	-	8:00 PM
Friday	February 23	8:00 AM	-	12:00 PM

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

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.

Registrants and presenters at the AAFS Annual Conference must be at least 18 years old at the time of the conference.

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.

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.

- Video and/or audio recording of any session(s) or parts thereof is not permitted without prior approval from the American Academy of Forensic Sciences.
- 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.
- Any type of misbehavior or heckling during a presentation will not be tolerated. Attendee will be escorted from the session.

February 17-22, 2025
Baltimore Convention Center
Baltimore, MD

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

February 15-20, 2027
Rosen Shingle Creek Convention Center
Orlando, FL

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.

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>)

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. (https://www.rainn.org/articles/sexual-harassment?gclid=CjwKCAjw2P-KBhByEiwADBYWCqz0g1E4mRJRxf5TN-EQ-JYXo2Q7USO-Yrtu1c9klaUmTmrEtmsaxoCbiQQAvD_BwE)

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

- 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.
-
- 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.

AAFS “safe person”: 917-678-7197

Denver Victims of Sexual Assault Unit
720-913-6035

Denver Center for Crime Victims Unit
303-894-8000

Denver Police Department
720-913-2000
<https://denver.prelive.opencities.com/Government/Agencies-Departments-Offices/Agencies-Departments-Offices-Directory/Police-Department>

National Sexual Assault Hotline: 1-800-656-4673
National Domestic Violence Hotline: 1-800-799-7233

RAINN
<https://www.rainn.org/>
Resources include definitions, statistics, crisis line, and crisis chat.

National Sexual Violence Resource Center
<https://www.nsvrc.org/>
Resources for survivors, including definitions, where to get help, and post-assault recovery.

National Domestic Violence Hotline
<https://www.thehotline.org/>
Resources include definitions, local resources/legal aid, crisis line, and crisis chat.

CONFERENCE EXTRAS

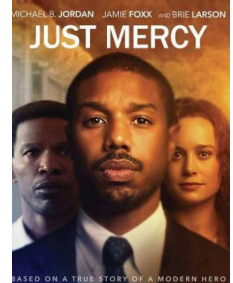
The 2024 conference offers not only top-tier educational content, but a number of ways for you to enjoy Denver, connect with fellow attendees, and maximize your experience throughout the week. Check out some of the below opportunities offered to attendees of the AAFS Annual Conference:



Arriving early in Denver? Kick off the conference with the Stanley Cup-winning Colorado Avalanche as they take on the Arizona Coyotes! AAFS attendees will have special seats for the game, along with pre-game food, drinks, and networking.

Note: This event is ticketed and is not included in your registration. You may purchase additional tickets for any guests you may wish to invite, even if they are not registered for the main conference itself. Tickets must be purchased by January 31. Transportation to the arena is not included.

Join AAFS for a special screening of *Just Mercy*, the powerful and thought-provoking 2019 biopic illustrating the true story of 2024 Keynote Speaker and renowned lawyer Bryan Stevenson and his history-making battle for justice for a wrongly condemned death row prisoner.



Take a peek inside the world-class facility home to the Denver Medical Examiner/Coroner teams. Specially designed to support the City and County of Denver, the office investigates over 2,000 deaths annually. Their team is opening their 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 1-1.5 hours. Transportation to/from the facility will be provided.

Special thanks to Denver Chief Medical Examiner James Caruso for partnering with us to offer this opportunity.

We're wrapping up the week with a special celebration, themed around the mountains and skiing of Colorado. Taking place Friday evening, your ticket includes music, food, entertainment, and more. Wear your best "chalet chic" or "flannel fun" and close out the conference with your friends and colleagues!



AWARDS

Dr. McDowell is a Professor Emeritus from the University of Colorado School of Dental Medicine and is a retired professor from the University of Colorado School of Medicine. Dr. McDowell is board certified by the American Board of Forensic Odontology. He is presently associate medical examiner for the city and county of Denver, CO. He is a past president of the American Academy of Forensic Sciences (AAFS) and a Distinguished Fellow of the AAFS. Dr. McDowell is past chair of the Forensic Sciences Foundation, the AAFS Executive Committee, and many other positions within the AAFS. He has also served as President of the American Society of Forensic Odontology. He has been published extensively in the fields of diagnostic sciences, forensic odontology, pathology, domestic violence, and HIV and has contributed to radiology, dermatology, and otolaryngology textbooks.



Dr. McDowell has a long and distinguished career in academia and shared governance at the University of Colorado. He has served three terms as Chair of the Faculty Council of the University of Colorado System’s four campuses, two terms as President of the Faculty at the Health Sciences Center, and three terms as President of the Faculty Senate at the University’s School of Dental Medicine. He has received multiple teaching awards and has received the Professor of the Year Award. Because of his contributions to shared governance at the University, he was selected to be a one-year Administrative Fellow for the University of Colorado’s Board of Regents.

Dr. McDowell operates a forensic odontology consulting firm, McDowell Professional Consulting, based in Castle Rock, CO. He has been an expert witness in many standard of care issues across the United States. He has worked with many local, state, regional, and federal agencies, including coroners’ and medical examiners’ offices. Although Dr. McDowell is retired from full-time teaching, he is still presently very active in providing continuing education courses.

Dr. McDowell is a retired colonel in the United States Army Reserves where he served in multiple command positions, including several years as a Command Dental Surgeon and as a United States Army Hospital Commander. He has received multiple awards from the Department of Defense, including the prestigious Legion of Merit Award. Dr. McDowell also has served as a consultant to the United States Senate’s Subcommittee on Missing and Killed in Action.

SECTION AWARDS

The Section Awards will be presented during Section Business Meetings on Wednesday, February 21.

J. Lawrence Angel Award
T. Dale Stewart Award
Ellis R. Kerley Research Award
Outstanding Mentorship Award
Diversity & Inclusion Award

Amber M. Plemons, PhD
Eugénia Cunha, PhD
Mary Elizabeth Cole, PhD
Nicholas P. Hermann, PhD
TBD

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

John J. Lentini, BA
Jennifer S. Mihalovich, MPH

Outstanding Case Study Award
Carrie Morgan Whitcomb Outstanding Service Award
Outstanding Student Research Award

Nicole R. Odom, MSFS
Marla Englander Carroll, BS
Shinelle Hutchison, MSc

Founders Award
Andrew H. Payne, Jr. Special Achievement Award
Steven Charles Batterman Award

TBD
TBD
TBD

Forensic Nurse Scientist Award
Forensic Nurse Innovator Award

Katherine N. Scafide, PhD
Joyce P. Williams, DNP

Robert Gaffney Achievement Award
Paul W. Kehres Meritorious Service Award

Anita Hasert, BS
Brian S. Clark, MFS

Harold A. Feder Award

TBD

Reidar F. Sognaes Award

Gary M. Berman, DDS

Wilton Helpern Award
Best Resident Paper Award
Award for Achievement in the Forensic Life Sciences

James R. Gill, MD
Finn M. Auld, BMBS
Sherah L. VanLaerhoven, PhD

Maureen Casey-Owens Award

Andrea Ledić, Msc

Rolla N. Harger Award
June K. Jones Scholarship Award
Best Poster Award

Joseph J. Saady, PhD
Munchelou M. Gomoni, BS
Rebecca Smith, MS

BUSINESS MEETINGS

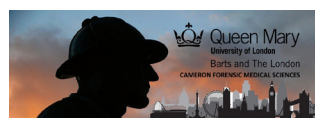
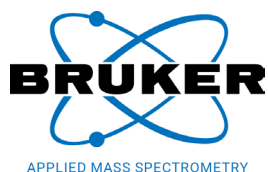
1:00 PM	-	3:45 PM	Criminalistics
1:30 PM	-	3:45 PM	Forensic Nursing Science
1:30 PM	-	3:45 PM	Pathology/Biology
2:00 PM	-	3:45 PM	Anthropology
2:00 PM	-	3:45 PM	Digital & Multimedia Sciences
2:00 PM	-	3:45 PM	Engineering & Applied Sciences
2:00 PM	-	3:45 PM	General
2:00 PM	-	3:45 PM	Jurisprudence
2:00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

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The Annual Business Meeting of the Fellows and Members of the AAFS will be held on Wednesday, February 21, at 4:15 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 2024-25 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 2025 AAFS Annual Scientific Conference in Baltimore, MD.

FINANCIAL CONTRIBUTORS



CONTINUING EDUCATION

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.

-
- 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

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.

Workshops and Special Sessions

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.

Detailed individually in each workshop and special session announcement and description.

Plenary and Keynote Sessions

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

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

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.

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

Last Word Society

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.

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

CONTINUING EDUCATION

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 on the meeting Registration Form. CE Credit Request Forms will be available on the AAFS website. The completed forms must be returned to AAFS by the designated deadline.



JOINTLY ACCREDITED PROVIDER®
INTERPROFESSIONAL CONTINUING EDUCATION

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.

The Postgraduate Institute for Medicine designates this live activity for a maximum of 44.75 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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 44.75 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.

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.

A general non physician certificate of attendance will be available.

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

DIVERSITY AND INCLUSION IN FORENSIC SCIENCE FORUM AND RECEPTION

Open to All Meeting Registrants

Moderated by the AAFS Diversity Outreach Committee

The goal of the Diversity Outreach Committee (DOC) Session is to enlighten and initiate dialogue regarding diversity, equity, and inclusion initiatives within the AAFS and the greater forensic science community. Participants will hear from an invited speaker on their perspectives and experiences on issues related to diversity and inclusion. The DOC hopes that this interactive session will promote dialogue on navigating diversity, equity, and inclusion within forensic science throughout an everchanging social climate.

Check back for speaker information.

Reception sponsored by:



MENTORSHIP PROGRAM BREAKFAST

Pre-Registration Encouraged

The 2024 Mentorship Program Breakfast is for those who expressed an interest when registering for the conference. This breakfast will bring together those mentees and mentors who are willing to help guide personal growth within the individual AAFS sections.

For those unable to make it to Denver, or have a conflict that morning but are interested in the Mentorship Program, please let us know by contacting mentorship@aafs.org.

STUDENT ACADEMY

Pre-Registration Required (\$25/Person)

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:

Massachusetts State Police Crime Laboratory
Maynard, MA

Co-Chair:

Louisiana State University
Baton Rouge, LA

Faculty:

Anthropology

Memphis, TN

Odontology:

Orlando, FL

Pathology/Biology:

George Mason University
Fairfax, VA

forensiX, LLC
Savannah, GA

BEK TEK LLC
Stafford, VA

Medical University of South Carolina
Charleston, SC

Engineering & Applied Sciences:

R.R. Crawford Engineering, Inc.
Whitesburg, KY

South Dakota State University
Brookings, SD

Forensic Nursing Science

San Marcos, CA

Toxicology:

NJ Office of the Chief State Medical Examiner
Burlington Township, NJ

General:

Flat Rock, MI

Texas Southern University
Houston, TX

Jurisprudence:

Center For Science Res & Ed
Willow Grove, PA

STUDENT ACADEMY

9:00 AM - 9:10 AM

9:10 AM - 9:20 AM

9:20 AM - 9:30 AM

9:30 AM - 10:45 AM

10:45 AM - 11:00 AM

11:00 AM - 12:15 PM

C

12:15 PM - 1:30 PM

1:30 PM - 1:45 PM

1:45 PM - 2:00 PM

FEPAC SESSION

Pre-Registration Not Required—Open to All Meeting Attendees

Chair:

The George Washington University
Washington, DC

Commissioner:

Marshall University
Huntington, WV

Commissioner:

Virginia Commonwealth University
Richmond, VA

Commissioner:

Cedar Crest College
Allentown, PA

Commissioner:

University of Illinois, Chicago
Chicago, IL

Commissioner:

Harris County Institute of Forensic Science
Houston, TX

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.

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 one-day 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 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 academic programs have successfully completed the accreditation process since 2003. Additional information on FEPAC can be found on the FEPAC website: <https://www.aafs.org/FEPAC>.

8:30 AM - 9:00 AM

9:00 AM - 9:30 AM

9:30 AM - 10:00 AM

10:00 AM - 10:15 AM

10:15 AM - 10:45 AM

10:45 AM - 11:15 AM

11:15 AM - 11:45 AM

11:45 AM - 12:15 PM

12:15 PM - 12:45 PM

YOUNG FORENSIC SCIENTISTS FORUM

Open to All Meeting Registrants—Pre-Registration Encouraged

YFSF Chair:

Chemist/Forensic Examiner
U.S. Army Criminal Investigation Division
Atlanta, GA

Assistant Professor
Department of Applied Forensic Sciences
Mercyhurst University
Erie, PA

Chief Medical Examiner
Boone/Callaway County Medical
Examiner's Office
Columbia, MO

Sr. Field Application Scientist-HID
Thermo Fisher Scientific
Moseley, VA

DNA Analyst
Worldwide Counter Threat Solutions
Louisa, VA

Director of Forensic Chemistry
Assistant Professor
Loyola University New Orleans
New Orleans, LA

Doctoral Candidate
Tulane University
Bangkok, Krung Thep, THAILAND

Forensic Scientist IV
MA State Police Crime Laboratory
Bellingham, MA

Assistant Professor
Purdue University
West Lafayette, IN

Membership Coordinator
AAFS
Colorado Springs, CO

Associate Director
CFSRE
Abington, PA

Senior Lectures and Privat-Docent
University of Lausanne
University Hospital in Lausanne
Lausanne, Vaud, SWITZERLAND

Emeritus Professor
Virginia Commonwealth University
Chesterfield, VA

Professor
Virginia Commonwealth University
Richmond, VA

Forensic Chemist II
Union County Sheriff's Office
Monroe, NC

Scientific Affair Coordinator
SERATEC mbH,
Goettingen, Niedersachsen, GERMANY

AAFS President-Elect
Associate Clinical Professor of Psychiatry
David Geffen School of Medicine at UCLA
Los Angeles, CA

Owner, Dirk Vastrick Presents
Spokane Valley, WA

AAFS President
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences
Hamilton, NJ

This full-day session will present the opportunity for attendees to learn about the many career paths one can take in the forensic science community and how each play a unique role in promoting justice for all and advancing the field.

The Young Forensic Scientists Forum (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

YOUNG FORENSIC SCIENTISTS FORUM

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.

After attending this session, attendees will have a better understanding of the diversity of roles and career paths in the forensic science community and how each play an integral part in furthering the field on a national and international level. Additionally, attendees will have the opportunity to sharpen their professional skills in resume writing and making impactful introductions.

8:00 AM - 8:20 AM

8:20 AM - 8:40 AM

Cheryl Hunter

8:40 AM - 9:00 AM

9:00 AM - 9:20 AM

C

9:20 AM - 9:40 AM

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1:00 PM - 1:20 PM

1:20 PM - 1:40 PM

1:40 PM - 2:00 PM

YOUNG FORENSIC SCIENTISTS FORUM

2:00 PM - 2:20 PM

2:20 PM - 2:40 PM

2:40 PM - 2:55 PM

2:55 PM - 3:15 PM

3:15 PM - 3:35 PM

3:35 PM - 3:55 PM

3:55 PM - 4:55 PM

4:55 PM - 5:00 PM

INTERDISCIPLINARY SYMPOSIUM

Open to All Meeting Registrants—Pre-Registration Encouraged

Chair:

Clinical Director of Forensics
Adventist HealthCare
Shady Grove Medical Center,
Rockville, MD

Co-Chair:

Forensic Odontologist
Westport, CT
Brunswick, MD

Presenters:

Professor
Sam Houston State University
Huntsville, TX

Associate Professor & Acting Director
The Center for Criminal Justice Studies
Farmingdale State College [SUNY]
Farmingdale, NY

Director of Policy and Reform
Perlmutter Center for Legal Justice
New York, NY

President, African Forensic Sciences Academy (AFSA)
CEO, DNAbiotec (Pty) Ltd,
Pretoria, Gauteng, SOUTH AFRICA

Judge (Retired)
Resolute Systems LLC
Eads, TN

Forensic Consultant
Manchester Science Park
Manchester, England, UNITED KINGDOM

Associate Professor
Cal State East Bay
Hayward, CA

Director, UTS Centre for Forensic Science
President, International Association of Forensic Sciences
University of Technology Sydney
Ultimo, New South Wales, AUSTRALIA

This half-day Interdisciplinary Symposium will discuss the influence of forensic science on the concept of Justice for All. Presentations on forensic science's foundational principles, ethics, and evolving definitions will be explored through an in-depth discussion of the Sydney Declaration. The importance of scientific rigor and the role of truthful and transparent application of forensic science knowledge in ensuring the preservation of fair and just judicial and humanitarian outcomes will be highlighted by presenters discussing the innocence work and wrongful convictions. The last half of the symposium will be focused on understanding similarities and differences in the past and current real-world application and role of forensic sciences to the justice system in the United States, the United Kingdom, and South Africa/Africa. The aspiration of working toward a world where there is Justice for All is in the hearts of many forensic scientists. This presentation will discuss the application of forensic science to the basic human right of access to justice and open discussion about the future of the intersection of societal needs, science, and law.

Upon completion of this workshop, attendees will: (1) articulate the basic principles outlined in the Sydney Declaration and describe its significance; (2) discuss reasons why scientific rigor and truthful, transparent application of science in forensic disciplines is critical to ensuring justice; and (3) explain some of the similarities and differences in the application of forensic sciences to justice in the United States, United Kingdom, Australia, and South Africa/Africa.

INTERDISCIPLINARY SYMPOSIUM

1:00 PM – 1:45 PM

1:45 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 3:15 PM

3:15 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 5:00 PM

KEYNOTE ADDRESS

Open to All Meeting Registrants



Bryan Stevenson is the founder and Executive Director of the Equal Justice Initiative (EJI), a human rights organization in Montgomery, AL. Under his leadership, EJI has won major legal challenges eliminating excessive and unfair sentencing, exonerating innocent death row prisoners, confronting abuse of the incarcerated and the mentally ill, and aiding children prosecuted as adults. He is a graduate of the Harvard Law School and the Harvard School of Government.

Mr. Stevenson has argued and won multiple cases at the United States Supreme Court, including a 2019 ruling protecting condemned prisoners who suffer from dementia and a landmark 2012 ruling that banned mandatory life-imprisonment-without-parole sentences for all children 17 or younger. Mr. Stevenson and his staff have won reversals, relief, or release from prison for over 135 wrongly condemned prisoners on death row and won relief for hundreds of others wrongly convicted or unfairly sentenced.

Mr. Stevenson has initiated major new anti-poverty and anti-discrimination efforts that challenge inequality in America. He led the creation of two highly acclaimed cultural sites that opened in 2018: the Legacy Museum and the National Memorial for Peace and Justice. These new national landmark institutions chronicle the legacy of slavery, lynching, and racial segregation, and the connection to mass incarceration and contemporary issues of racial bias.

Mr. Stevenson's work has won him numerous awards and he has received over 40 honorary doctoral degrees, including degrees from Harvard, Yale, Princeton, the University of Pennsylvania, and Oxford University. He is the author of the critically acclaimed bestseller, *Just Mercy*, which was named by *Time* as one of the 10 Best Books of Nonfiction for 2014 and has been awarded several honors, including the American Library Association's Carnegie Medal for best nonfiction book of 2015 and a 2015 NAACP Image Award. *Just Mercy* was recently adapted as a major motion picture. AAFS will present a free screening of the film on Sunday, February 18, at 7:00 PM.

PLENARY SESSION

Open to All Meeting Registrants



The Intersection of Science and Justice: Does Forensic Science Have a Role in Ensuring Justice for All?

Plenary Session Chair:

U.S. Postal Inspection Service
Lovettsville, VA

Plenary Session Co-Chair:

Psychiatrist, Special Treatment Unit
Elizabeth, NJ

Speakers

Federal Judge (retired)
Memphis, TN

Forensic DNA Analyst
ForensicAid
West Palm Beach, FL

Director of Policy and Reform
Perlmutter Center for Legal Justice
New York, NY

Wilson Center for Science and Justice
Duke Law
Durham, NC

National Institute of Standards and Technology
Gaithersburg, MD

Science, as a general discipline, is the practice of using systematic, rigorous observation, experimentation, and testing of theory-based hypotheses in environments over which the scientist has some control or can control for in their analyses. Though “science” is often used to describe a vocation, it is actually a philosophy. Science is a way of thinking, answering questions, and building an understanding of the world and the things and people in it. Forensic science, as a subdiscipline of general science, is broadly defined as the application of science to matters of the law. The tasks undertaken by forensic scientists incorporate many features seen in other types of science (i.e., practitioners must obtain and analyze evidence, interpret results, and provide critical information to support or refute hypotheses); however, there are some notable differences.

As opposed to most conventional scientific endeavors, in which debates over hypotheses and conclusions occur between scientists themselves and primarily in the academic realm, the practices of forensic science operate in a unique arena in which results are routinely presented to non-scientists (e.g., law enforcement professionals and triers of fact), with some cases finding their way into courts of law. This requires forensic scientists to navigate the differing interests, values, and/or needs of law enforcement, the legal community, public safety, individual liberty, and public perception all within an adversarial legal system staffed by professionals with varying degrees of scientific literacy.

Complicating matters further, forensic work, although typically performed under the direction and auspices of law enforcement and prosecutorial agencies, may also be performed under the direction of defense counsel or other agencies, lending an inherent view that forensic practices are biased. Although there are an increasing number of so called “independent” forensic laboratories, experts, or organizations, many of these entities still operate within a government structure which, although less direct, may still be subject to certain subjective pressures providing the appearance of bias.

PLENARY SESSION

Open to All Meeting Registrants

The Intersection of Science and Justice: Does Forensic Science Have a Role in Ensuring Justice for All?

Scientists and forensic experts should strive for impartiality and objectivity at all times. Ideally, they should be the most objective component in any legal system as they must adhere to the facts, and present only information and opinions supported by a thorough scientific analysis of evidential data and/or a methodical consideration of information empirically demonstrated in the literature. Beyond the traditional forensic setting, some would hold that the scientist's role should remain the same, with an impartial view of the world and opinions limited to matters strictly in accordance with scientific or legal inquiry. Others, however, view the scientist's role as one that should go beyond this setting, into the public domain, where their objective pursuits of the truth could lend expertise toward improving matters of social significance.

"Justice for All," as a mantra, is a pervasive societal theme with a significant presence in both the forensic and legal realms, as any individual accused of committing a crime is entitled to due process in the same manner as any other individual, regardless of demographics. This theme, however, is more often associated with philosophical discussion within legal circles, rather than matters of scientific significance. The purpose of this session will be to examine the concept of "Justice for All" from the perspective of the forensic scientist, with the goal of elucidating what role, if any, the forensic scientist may play toward ensuring fairness within the larger legal context.

Some of the questions to be discussed during this session include: Does forensic science play a role in ensuring "justice for all"?; Do forensic scientists have an obligation in this matter and, if so, to what extent?; What measures are being taken to ensure forensic science produces equitable results?; And, what further work needs to be done to bring forensic sciences closer to these goals?

10:00 AM - 10:10 AM

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11:00 AM - 11:25 AM

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JUSTICE TALKS CASE BREAK SESSIONS

Senior Judge
Administrative Office of PA Courts
Erie, PA

Former Judge
Vincent, OH

In this presentation, Judge Stephanie Domitrovich and former Judge Milt Nuzum will facilitate an interactive dialog with the session attendees as they examine a series of cases and scenarios that test the limits of a trial judge's judicial discretion in admitting scientific and technical forensic evidence. Attendees will analyze a series of scenarios based on actual cases and place themselves in the role of a trial judge in making decisions on admissibility of the evidence in each scenario.

The goals of this presentation are: (1) to examine a series of cases and scenarios that test the limits of a trial judge's judicial discretion in admitting scientific and technical forensic evidence; and (2) to help attendees understand the Rules of Evidence and relevant case law that establish the guidelines a trial judge must follow in making critical decisions on the admissibility of scientific and technical forensic evidence.

Attendees will analyze a series of scenarios based on actual cases and place themselves in the role of a trial judge in making decisions on the admissibility of the evidence in each scenario. This dynamic presentation will impact the forensic science community by enabling prosecutors, defense attorneys, judges, and expert witnesses to be prepared to successfully face the scrutiny of the court when seeking admissibility of scientific and technical forensic evidence in cases where the outcome likely hinges on the testimony of an expert witness.

JUSTICE TALKS CASE BREAK SESSIONS

Coroner
Texas County Government
Licking, MO

The unregulated veterinary drug xylazine is emerging as a cause of death in state correctional facilities. Unlike the drug fentanyl, there is no antidote. The origins and toxicity of the drug are discussed and illustrated with a case study of an offender death due to xylazine mixed with fentanyl.

The goals of this presentation are to: (1) identify physical symptoms of xylazine use, (2) identify treatment for xylazine overdose, and (3) obtain proper toxicology samples in case of fatal overdose.

This presentation will impact the forensic science community by informing attendees that the importance of recognizing signs/symptoms of xylazine use cannot be overstated. As an emerging drug, xylazine is not always included in basic forensic panels, so expanded testing is recommended. Xylazine has no approved antidote for humans. It is NOT a federally controlled substance, so has the propensity to be easily obtained.

JUSTICE TALKS CASE BREAK SESSIONS

Forensic DNA Expert
ForensicAid, LLC
West Palm Beach, FL

Assistant Professor
Marshall University
Huntington, WV

This presentation will call attention to gaps in the quality oversight structure by questioning the current perceptions of forensic laboratory accreditation, highlighting its strengths and limitations, providing specific examples of where failures have occurred, and discussing potential opportunities for improvement.

This presentation is intended to highlight common misconceptions regarding accreditation and quality assurance in United States forensic laboratories. Accreditation is often misdescribed by practitioners and misunderstood by judges and juries. As a result of participation in this presentation, attendees will gain a clearer understanding of the role of forensic laboratory accreditation in the United States, including its strengths and limitations.

This presentation will impact the forensic science community by fostering discussion about what meaningful and effective forensic science oversight would look like in the United States and why current accreditation frameworks are insufficient to ensure production of accurate and reliable forensic results. This presentation will draw the attention of justice partners to the need for statutory oversight of forensic science on the state and federal level in the image of the Texas Commission on Forensic Science.

JUSTICE TALKS CASE BREAK SESSIONS

Senior Fellow/General Counsel
CFSRE
Willow Grove, PA

Professor and Chair
Department of Pathology
Western Michigan University
Homer Stryker M.D. School of Medicine
Kalamazoo, MI

In 2023, the independence of forensic pathology in the context of Medicolegal Death Investigations (MDI) was directly attacked by the introduction of various state legislative proposals and bills passed into law. These legislative proposals and laws erode the ability of forensic pathologists to maintain impartiality and objectivity, mandate particular findings on death certificates, and allow non-physicians to perform autopsies. The cause for alarm is heightened by the apparent lack of scientific and medical underpinnings in the bills and laws. This program will address threats to the independence and neutrality of MDI and the medical practice of forensic pathology.

After attending this presentation, attendees will understand the importance of monitoring and evaluating state legislative proposals through a prioritized, anticipatory process. Vigilance in monitoring is warranted due to the recent uptick in legislative proposals and passed bills that dictate processes and outcomes in MDIs. The information obtained by attendees will enable proactive and informed responses to proposed legislation that encroaches on the independence of forensic pathology and MDI.

This presentation impacts the forensic science community by exposing threats to the independence and neutrality of MDI and the medical practice of forensic pathology and by encouraging forward-leaning responses to ward off such threats.

JUSTICE TALKS CASE BREAK SESSIONS

Public Defender
Sixth District Public Defender's Office
Duluth, MN

This presentation will address how two recent trends in forensic DNA analysis require stakeholders to re-evaluate the power of DNA evidence to accurately distinguish the guilty from the innocent. First, courts must learn to account for the increased sensitivity of current DNA testing methods and the ensuing risk that DNA recovered from a crime-scene is unrelated to the crime. Second, courts must learn to account for the increased use of probabilistic genotyping software programs and common misunderstandings about the meaning and limitations of the subsample likelihood ratios generated by such programs. Research exploring how each of these trends impacts stakeholders' abilities to distinguish the guilty from the innocent is urgently needed to prevent wrongful convictions.

The goal of this presentation is to explore the urgent need to further research how recent technological advancements in forensic DNA analysis are impacting the administration of justice in the American criminal court system.

Several members of the forensic science community have either: (1) identified common misunderstandings about likelihood ratios among lay people, or (2) recognized the impact of highly sensitive testing methods on the detection of irrelevant DNA at a crime scene. The materials discussed in this presentation will impact the forensic science community by hopefully providing empirical guidance to practitioners and decision makers in cases where the presentation of subsample likelihood ratio could lead to a wrongful conviction. This presentation will also hopefully encourage researchers with technical expertise and resources to study whether existing procedural safeguards are sufficient to protect innocent defendants faced with incriminating DNA evidence.

JUSTICE TALKS CASE BREAK SESSIONS

Forensic Anthropologist
New Jersey State Police
Hamilton, NJ

This presentation will cover how the New Jersey State Police Fugitive Unit, New Jersey State Police Office of Forensic Sciences Forensic Anthropology Unit, and the United States Marshal's Office were able to locate and close one of New Jersey's Top 10 Most Wanted cases—the case of Anthony Mota. Even in death, we strive to resolve and provide closure and justice to our victims and their families.

After attending this presentation, attendees will understand how to execute an international exhumation, gain knowledge of the valuable resources that the United States Marshal's Office can provide for assistance in cases, learn what samples provide the best DNA results, and the importance of documentation throughout a complex case.

This presentation will impact the forensic science community by bridging the gap between international agencies working to achieve the same goals, demonstrating how to work collaboratively with multiple agencies across domestic and international jurisdictions, and informing attendees of the resources available from federal agencies.

JUSTICE TALKS CASE BREAK SESSIONS

Special Agent
Federal Bureau of Investigation
Detroit, MI

This presentation is a case review of the largest human body parts industry investigation in the Federal Bureau of Investigation (FBI) history. Death Harvester was opened by the author as an organized crime case in the Detroit Field Office in 2011. Its purpose was to investigate the illegal sale of human remains for research and education that was taking place through a network of anatomical supply companies. What started with the finding of severed heads in a rusty van ultimately resulted in the seizing of thousands of human remains across the country, the closure of four body donation programs, the arrest and conviction of seven individuals, and the identification, cremation, and return of human remains to hundreds of victim families.

This presentation will help the attendee to better understand the global trade in human remains for research and education, the common crimes associated with the trade, what has been, and can still be, done to stop the illegal activity, and the roles that forensic science professionals can play.

The expertise of forensic pathologists and forensic anthropologists is regularly needed in criminal investigations of the human body parts trade, as are the skills of fingerprint examiners and a range of DNA specialists. Having a broad understanding of this industry and its common crimes will better prepare these forensic science professionals to assist with ongoing efforts to stem some of the rampant illegality. Additionally, this presentation will impact the forensic science community by helping all attendees to have a better understanding of the risks associated with donating one's body to science.

JUSTICE TALKS CASE BREAK SESSIONS

Independent Consultant of Child Abuse Legal Matters
Sr. Special Agent, NCIS (Retired)
Castle Rock, CO

Under any other circumstances, a child sex offender would have to approach a child and converse, which is a much more difficult hurdle in terms of circumstance, intellectual capability, and social functioning. Online communication has dispensed with much of the social skills and verbal communication required to seduce a child, which may have deterred some offenders, and given them direct access to children, many of whom are on-line with little or no adult/parent supervision. In response to this crisis, law enforcement has adopted a number of proactive strategies to enforce child-protective criminal statutes. Those statutes, the communication elements of the internet, and the development of law enforcement efforts in this field will be discussed.

After attending this presentation, attendees will: (1) learn what conduct on the part of individuals expressing a sexual interest in children is illegal, and what conduct, though possibly objectionable, is protected by United States Constitutionally guaranteed freedoms; (2) learn to identify the various communication elements of the internet; (3) be able to understand how persons expressing a sexual interest in children make use of the various communication components of the internet to contact both persons who share similar interests and potential child victims; and (4) be introduced to several proactive techniques used by law enforcement, and the technology that makes them possible, to target and investigate criminal child sex offenders online.

Federal statutes prohibit the possession of graphic Child Sexual Abuse Materials (CSAM), the distribution of CSAM images by any means, including computer, the buying and selling of children for the purpose of producing CSAM images, and interstate or foreign travel with the intent to engage in a sexual act with a child. Law enforcement's proactive investigations often involve undercover communication with individuals who display a sexual interest in children; they document exchanges of illegal CSAM and rely heavily on face-to-face undercover meetings. This presentation will impact the forensic science community by delineating what conduct is and is not prohibited by federal and various state laws. A discussion of proactive law enforcement methods will be presented, as well as an explanation of the internet and its communication media components, such as the World Wide Web (WWW), the Dark Web, online gaming platforms, Internet Relay Chat (IRC), chat rooms, newsgroups, and file servers, all with case examples.

LUNCHEON SEMINARS

Pre-Registration Required — \$85

Independent Consultant of Child Abuse Legal Matters
Sr. Special Agent, NCIS (Retired)
Castle Rock, CO

The duties and responsibilities of a Naval Criminal Investigative Service (NCIS) Special Agent, along with real case examples, will be discussed through the lens of the real-life Jethro Gibbs.

After attending this presentation, attendees will be familiar with the duties and responsibilities of NCIS Special Agents and understand the similarities, and the many differences, between the *NCIS* television shows and “real life” NCIS work.

This presentation will impact the forensic science community by developing awareness of the critical missions of NCIS Special Agents and their role in federal law enforcement.

When this presenter, Paul C. Graf, began his career with the US Naval Investigative Service (NIS), he often said it took well over 20 minutes to tell someone who he worked for and why he was asking so many questions. Now, and since the advent of the wildly popular CBS Television series *NCIS* and its offshoot programs () the re-named Naval Criminal Investigative Service (NCIS) has become a household word. That said, many viewers still believe it to be a fictional agency and are surprised to hear the presenter spent 33 years conducting criminal, counter-intelligence, counter-terrorism and espionage as a Senior Special Agent of NCIS (aka: The Real Gibbs) Mr. Graf was assigned to offices in Long Beach, CA, Naples, Italy, Newport, RI, Brunswick, ME, and Guantanamo Bay, Cuba. His duties included narcotics investigation, grand larceny, sabotage, espionage, Double Agent Operations, homicide, arson, rape, procurement fraud, cold case homicide, and child abuse investigations, his specialty. In his role as an Executive Protection Supervisor, he led teams of armed Agents who protected military and civilian VIP’s and world leaders, worldwide. Mr. Graf conducted NCIS investigations and operations in 26 countries of the world. Therefore, the duties and responsibilities of an NCIS Special Agent, as seen through the lens of his extensive career, along with real case examples, will be discussed. The Forensic Science Community will, thus, develop an awareness of the critical missions of NCIS Special Agents and their role in Federal Law Enforcement.

LUNCHEON SEMINARS

Pre-Registration Required — \$85

LS2

Professor
Montana State University
Bozeman, MT

This presentation begins with the historical background of gunshot audio interpretation, then provides several fascinating case studies of the current state-of-the art, demonstrating how gunfire sounds can provide essential forensic information. Attendees will learn the essential physical principles of how firearms make sounds and how those sounds are affected by the recording location and the recording system. At the conclusion of the seminar, attendees will understand how to interpret audio waveforms and spectrograms from gunshot audio recordings and how to apply their new knowledge to examples and case studies.

After attending this presentation, attendees will: (1) understand the basic physical principles of how firearms make sound and how gunshot sounds propagate through the air to the microphone; (2) have viewed waveforms and spectrograms of gunshot sounds, identifying the key features and important details; (3) understand how to interpret and knowledgeably discuss the strengths and weaknesses of various sources of gunshot audio recordings; (4) understand the basic features of contemporary gunshot detection and location systems, such as ShotSpotter™ from SoundThinking, Inc.; and (5) recognize the proper steps in handling user-generated audio evidence in forensic investigations.

This presentation will impact the forensic science community by introducing the attendees to gunshot audio forensic examination.

LUNCHEON SEMINARS

Pre-Registration Required — \$85

Forensic Pathologist
Forensic Pathology Associates
Division of HNL Lab Medicine
Allentown, PA

This presentation will give an overview of the phases of human spaceflight and the unique challenges each phase presents. Past fatal mishaps will be reviewed. The current applicable protocols in regard to human spaceflight medicolegal death investigations, current knowledge gaps, and future challenges to these investigations will be discussed.

Upon completion of this workshop, attendees should be able to describe the phases of spaceflight and the unique challenges these phases present during a spaceflight death investigation.

This presentation will impact the forensic science community by providing a historical overview of human spaceflight medicolegal death investigations and an overview of current knowledge gaps and challenges for these investigations.

LUNCHEON SEMINARS

Pre-Registration Required — \$85

LS4

Teaching Faculty II & UG Public Safety & Security Program Coordinator
Florida State University
Panama City Campus
Panama City, FL

This presentation's goal is to show the importance of the role each person plays in high stress, collaborative work groups that make up many of the various positions in the fields of forensic science. High stress work environments are where the substance of the work is difficult, there is increased pressure to be right, and heavy caseloads and rapid pace take a toll on both mental and physical health. Reducing the stress on the team improves the work culture for everyone.

There is no I in TEAM, but the argument can be made that there should be. The only person whose decisions and actions we can control is ourselves. We will take a quick 11-question multiple choice quiz to determine personality color and then explore how understanding ourselves and just as importantly, how others perceive us, can lead to better workplace interactions, reduce errors and improve the overall quality of our work and our agency culture.

At the completion of this luncheon presentation, attendees will be able to: (1) identify their personality color by completing a short 11-question multiple choice quiz; (2) recognize the characteristics of their personality color and how they may be perceived by others; (3) discuss the importance of using personality color to improve communication; (4) examine studies related to secondary trauma in high stress work environments; (5) relate the concept of stress in the workplace to noise and errors; (6) describe the physical and mental effects of the high stress workplace, both primary and secondary; (7) discern the role one plays in challenging work situations; (8) evaluate the importance of leadership; and (9) explore ways to leverage the team's talents.

This presentation will impact the forensic science community by highlighting the benefits of knowing the individual's personality color and the color of those they work with. It will include a brief 11-question multiple choice quiz to identify their personality color, to better understand how others perceive them and consider studies and techniques from the field of sociology to improve how they interact with others. We will examine the importance of leadership as a tool to enhance the workplace culture and how a positive work environment may even reduce errors. By understanding the only person whose decisions and actions we can control is ourselves we can endeavor to improve our high stress work environment for ourselves and everyone on the team.

WORKSHOPS

Pre-Registration Required—\$225

In this workshop, we will walk participants through the National Institute of Standards and Technology (NIST)/National Institute of Justice (NIJ) Expert Working Group on Human Factors in Forensic DNA Interpretation Working Group process and highlight key findings, discuss some of the more controversial topics, and present implementation steps for the recommendations contained within the report.

Upon completion of this workshop, participants will be familiar with the recommendations in the NIST/NIJ Expert Working Group on Human Factors in Forensic DNA Interpretation report. They will know the implications of these recommendations for their own practice and how the recommendations serve to improve the practice of DNA examination.

Participants will be invited to discuss how relevant and feasible the recommendations are to their own practice and to the wider forensic DNA community.

The study of human factors in forensic science is an essential element to inform our understanding of the interaction between humans and the systems they use. In understanding human factor issues, we can identify and address the potential for error and bias. Furthermore, we can develop ways to shape positive laboratory culture, improve staff morale, and increase work productivity. This workshop presents three years' worth of effort to understand human factors as they apply to forensic DNA interpretation. This effort provides guidance to DNA analysts, laboratory management, and legal practitioners on how to improve practice for safer justice outcomes.

Criminalistics, Jurisprudence

Basic

Chair:

Kansas City Police Crime Lab
Kansas City, MO

Laboratory Director
Union County Prosecutor's Office
Forensic Laboratory
Westfield, NJ

Sr. Forensic Science Research Manager
National Institute of Standards
and Technology
Gaithersburg, MD

Co-Chair:

Forensic Scientist III
Maryland State Police
Pikesville, MD

Forensic Research Scientist
National Institute of Standards
and Technology (Contractor)
Auckland, NEW ZEALAND

Research Forensic Social Scientist
RTI International
Alexandria, VA

Presenters:

Forensic Scientist
RTI International
Greenville, SC

Forensic DNA Expert
ForensicAid, LLC
West Palm Beach, FL

WORKSHOPS

8:30 AM – 9:00 AM

Melissa Taylor, BA

9:00 AM – 9:30 AM

Melissa Taylor, BA

9:30 AM – 10:00 AM

10:00 AM – 10:30 AM

10:30 AM – 10:45 AM

10:45 AM – 11:20 AM

11:20 AM – 12:00 PM

12:00 PM – 1:00 PM

1:00 PM – 2:00 PM

2:00 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 4:15 PM

4:15 PM – 5:00 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$225

Attendees of this workshop will receive information and training on major revisions to the American Society for Testing and Materials (ASTM) E1618. Presenters will discuss why the revisions are needed, explain the new specifications for the ignitable liquid classification system, provide an overview of the performance-driven instrumental analysis requirements, and facilitate implementation of the new interpretation and reporting requirements through practical exercises. Intended as an introductory workshop, attendees will gain experience using these new specifications for classification of ignitable liquids and a practical understanding of how the updated requirements can reduce misattribution or misidentification of ignitable liquids in complex matrix samples.

After completing this workshop, attendees will: (1) be familiar with the major revisions currently being made to ASTM E1618-19 Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography-Mass Spectrometry; (2) understand the potential impact of the revisions on their laboratory's standard operating procedures; and (3) have basic experience in utilization of some of the revisions through completion of practical, hands-on exercises.

The major revisions to ASTM E1618-19 provide additional information that is designed to clarify its requirements and improve consistency of its use in fire debris analysis. This workshop will impact the forensic science community's practice by providing orientation and training related to implementation of the major revisions to ASTM E1618.

Criminalistics, Jurisprudence

Basic

Chair:

Forensic Scientist Supervisor
Virginia Department of Forensic Science
Norfolk, VA

Co-Chair:

Director, Verity Labs Inc.
Las Cruces, NM

Presenter:

Assistant Professor
Marshall University
Huntington, WV

8:30 AM – 8:45 AM

8:45 AM – 9:30 AM

9:30 AM – 9:50 AM

9:50 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:15 AM

WORKSHOPS

11:15 AM – 11:45 AM

11:45 AM – 12:45 PM

12:45 PM – 1:30 PM

1:30 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 4:45 PM

4:45 PM – 5:00 PM

WORKSHOPS

Pre-Registration Required—\$225

Discover SpectrApp (<https://www.spectrapp.unito.it>), an innovative open-source tool developed by the esteemed Department of Chemistry at the University of Turin. Join us for an immersive workshop that showcases SpectrApp's cutting-edge capabilities in forensic spectroscopic data analysis. This user-friendly tool combines advanced machine learning techniques with a seamless interface, catering to both experts and non-experts in the field. Participants will delve into the power of SpectrApp's multivariate data analysis and chemometric strategies, facilitated by the R Shiny environment. Explore a vast array of graphical approaches, including univariate, bivariate, and multivariate visualizations, uncovering intricate patterns within complex datasets. Learn about SpectrApp's support for cluster analysis, Principal Component Analysis (PCA), and other advanced methodologies, such as PLS-Discriminant Analysis (PLS-DA) and PLS-Regression (PLS-R). Witness how SpectrApp enables the prediction of new samples, empowering forensic analysis like never before. Don't miss this enlightening workshop that showcases the potential of SpectrApp to revolutionize the future of forensic science through machine learning and data analysis.

Upon completion of this workshop, attendees will be able to: (1) familiarize themselves with SpectrApp; (2) utilize multivariate data analysis; (3) master chemometric strategies; (4) navigate graphical approaches; (5) apply PLS-DA and PLS-R; (6) predict new samples; (7) promote machine learning integration; and (8) advance forensic data exploration.

The session on SpectrApp will have a profound impact on the forensic science community by introducing a transformative tool that leverages Machine Learning for spectroscopic data analysis. Participants will gain invaluable insights and practical skills to navigate the complexities of forensic data, propelling them towards more accurate and efficient analyses. The workshop's educational objectives emphasize the integration of cutting-edge techniques, such as multivariate data analysis and chemometric strategies, enabling forensic experts to extract meaningful information from intricate datasets.

By empowering both experts and non-experts with the user-friendly interface of SpectrApp, the workshop aims to democratize advanced data analysis in forensic science. This accessibility will promote broader adoption and foster a culture of collaboration and knowledge-sharing within the community.

Digital & Multimedia Sciences, General

Basic

Chair:

Assistant Professor
Department of Chemistry
University of Torino
Torino, Piemonte, ITALY

Co-Chair:

COO
Centro Regionale Antidoping "A. Bertinaria"
Lazio, Rome, ITALY

WORKSHOPS

8:30 AM – 9:00 AM

9:00 AM – 9:30 AM

9:30 AM – 10:30 AM

10:30 AM – 11:00 AM

11:00 AM – 12:30 PM

12:30 PM – 1:30 PM

1:30 PM – 3:00 PM

3:00 PM – 3:30 PM

3:30 PM – 4:00 PM

4:00 PM – 4:30 PM

4:30 PM – 5:00 PM

WORKSHOPS

Pre-Registration Required—\$225

This workshop will cover the history of forensic psychiatry, the use and types of experts, and the clinical and ethical guidelines followed. We will discuss the crucial differences between a treating clinician and an expert, the use and misuse of psychological testing, and the application of case law and statutes to appropriately answer psychiatric-legal questions. The workshop will be interactive with case debates prepared by the presenters and invited submissions from attendants. The workshop is designed to help inform attorneys how to work more effectively with mental health experts, as well as confidently navigate the ethical waters when doing so.

This workshop will help attendees: (1) have an expanded understanding of mental illness; (2) learn how to effectively utilize an expert psychiatric witness in criminal and civil cases; (3) understand the difference between appropriate and inappropriate consult questions for the expert; (4) learn about unethical expert witnesses, how to spot them, why to avoid them, and effectively crossing them; and (5) understand the ethical obligations of an expert witness and anticipate when these can conflict with an attorney's ethical duties.

This workshop will have a positive impact in terms of helping attorneys work more effectively and ethically with experts in the mental health field. The skill and knowledge acquired will also help inform members of the forensic mental health field to avoid some of the pitfalls that can occur in the midst of complex legal cases. Some of the ethical issues examined will be generalizable to other expert witnesses.

Jurisprudence, Psychiatry & Behavioral Science

Basic

Chair:

Forensic Psychiatrist
Freitas and Associates LLC
Alexandria, VA

Co-Chair:

Forensic Psychiatrist
Jersey Forensic Consulting
Princeton, NJ

Presenter:

Forensic Psychiatrist
Forensic Psychiatry Consulting, LLC
Syracuse, NY

8:30 AM – 9:30 AM

9:30 AM – 11:30 AM

11:30 AM – 12:30 PM

12:30 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 4:00 PM

4:00 PM – 4:30 PM

WORKSHOPS

Pre-Registration Required—\$225

This workshop is an update on current practices in forensic postmortem radiology and medicolegal death investigations. National and international forensic pathology and radiology practitioners will provide an introduction to and update on best practices in the field.

After attending this workshop, attendees will: (1) be informed of the different modalities for postmortem radiology; (2) understand the strengths and weaknesses of the different current modalities; (3) learn about the interpretation of the postmortem radiology scans and levels of forensic evidence; and (4) be aware of current advances, collaboration, and potential resources available to interested practitioners.

This presentation will impact the forensic science community by providing attendees with expertise on best practices, interpretation of radiology imaging, and incorporation of forensic postmortem radiology into medicolegal death investigations.

Anthropology, General, Pathology/Biology

Basic

Chair:

Professor, Director of 3D Clinical
Applications & Vice Chair of Radiology
Department of Radiology
University of South Florida
Tampa, FL

Co-Chair:

Forensic Pathologist
Forensic Pathology Associates
Division of HNL Lab Medicine
Allentown, PA

Presenters:

Associate Professor
New Mexico Medical Investigator Office
Albuquerque, NM

Forensic Pathologist
Hopital Rangueil
Toulouse, Midi-Pyrenees, FRANCE

3D Center Department Co-Head
Institute for Forensic Medicine
University of Zürich
Zürich, SWITZERLAND

Forensic Radiologist
New Mexico Medical Investigator Office
Albuquerque, NM

Associate Professor
Department of Radiology
University of South Florida
Tampa, FL

Professor and Chair
Institute of Forensic Medicine
University of Zurich
Zürich, SWITZERLAND

8:30 AM – 8:45 AM

8:45 AM – 9:15 AM

9:15 AM – 9:45 AM

9:45 AM – 10:15 AM

10:15 AM – 10:30 AM

WORKSHOPS

10:30 AM – 11:30 AM

11:30 AM – 12:30 PM

All Presenters

12:30 PM – 1:30 PM

1:30 PM – 2:00 PM

2:00 PM – 2:30 PM

2:30 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:45 PM

All Presenters

3:45 PM – 4:15 PM

4:15 PM – 5:00 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

During this presentation, representatives from universities and the Forensic Science Education Programs Commission (FEPAC) will present on ways they have incorporated standards into their university programs, examples of specific courses where students' knowledge has been enhanced by such standards, and how to overcome obstacles of changing curriculum to include private sector standards. Representatives from forensic laboratories will present on how hiring practitioners with a knowledge of standards affects their practices, as well as how they are implementing standards into lab training and standard operating procedures. The latter portion of the workshop will be comprised of a panel, including educators, lab managers, young forensic professionals, and recent university graduates, to discuss how forensic standards are changing, and will continue to change, the landscape of forensic education and training.

After attending this presentation, attendees will have a better understanding of how incorporating standards in an educational curriculum affects students' understanding of the discipline and forensic sciences when they enter post-graduate employment.

This presentation will impact the forensic science community by creating greater awareness of how standards are currently being implemented in university level educational programs, and how lab managers have both incorporated standards into their training, and how they use standards for minimum qualifications and education of practitioners.

All Disciplines

Basic

Chair:

Professor
The George Washington University
Washington, DC

Clinical Professor of Forensic Science
University of Illinois at Chicago
Chicago, IL

Associate Professor
Virginia Commonwealth University
Richmond, VA

Co-Chair:

Associate Professor
Saint Louis University
Saint Louis, MO

Associate Director of Forensic Science/
Toxicology
New York State Police
Albany, NY

Assistant Professor
Sam Houston State University
Huntsville, TX

Presenters:

Secretariat
AAFS Standards Board
Colorado Springs, CO

Graduate Student Researcher
The George Washington University
Eaton, CO

President and CEO
Houston Forensic Science Center
Houston, TX

Forensic Document Examiner
Michigan State Police
Lansing, MI

WORKSHOPS

8:30 AM – 8:45 AM

8:45 AM – 9:15 AM

9:15 AM – 9:45 AM

9:45 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:00 AM

11:00 AM – 11:30 AM

11:30 AM – 12:30 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

This workshop will address the growing semi-synthetic cannabinoid market from both a toxicological and a seized drug chemistry perspective. It will provide an overview of the legislation and scheduling of THC-related compounds in the United States, discuss drug trends in semi-synthetic cannabinoids in both Europe and the United States, and review analytical methods for the separation of THC isomers in seized drug material. This workshop will also focus on the known pharmacological activity and potency of currently available semi-synthetic cannabinoids, provide reviews of cross-reactivity of the cannabinoid isomers and analogs on the commercially available immunoassay platform, and describe analytical methods for isomer separation in toxicological samples. Finally, delta-8-THC blood concentrations and trends in the Driving Under the Influence of Drugs (DUID) cohort will be presented.

After attending this presentation, attendees will be familiar with semi-synthetic cannabinoids such as delta-8-THC, THC-P, HHC, etc., their appearance in various cannabis-containing products, their potency, and their legality. Additionally, attendees will understand analytical challenges associated with these newly emerging THC isomers and analogs and how to resolve chromatographic interferences.

This presentation will impact the forensic science community by providing a legal, pharmacological, and analytical overview of emerging semi-synthetic cannabinoid products.

Criminalistics, General, Toxicology

Basic

Chair:

Toxicology Team Manager
NMS Labs,
Horsham, PA

Presenters:

Scientific Analyst
EMCDDA
Lisbon, PORTUGAL

Forensic Chemistry Technical Director
NMS Labs
Willow Grove, PA

Co-Chair:

Senior Scientist
CFSRE
Willow Grove, PA

Executive Director
CFSRE
Horsham, PA

Forensic Toxicologist
Armed Forces Medical Examiner System
Dover AFB, DE

WORKSHOPS

8:30 AM – 9:00 AM

Barry K. Logan, PhD

9:00 AM – 9:30 AM

9:30 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:10 AM

11:10 AM – 11:40 AM

11:40 AM – 12:10 PM

12:10 PM – 12:30 PM

WORKSHOPS

Pre-Registration Required—\$125

“He only choked me...” Anoxic brain injury can occur in minutes. Nonfatal strangulation and its associated effects are not well understood by responding providers. This 4-hour workshop provides a background in research and enhances skills in evaluating nonfatal strangulation. This potential lethal act is present in more cases than one thinks. The workshop presenters plan discussions around how the current evidence impacts the investigation, documentation, care, and prosecution of strangulation cases. Long-term effects such as traumatic brain injury are now being studied with current information to be discussed. Key concepts will be illustrated through the use of case studies and group discussion.

Many disciplines who investigate, provide care, or prosecute cases where nonfatal strangulation is a component benefit from understanding this topic. Investigators and crime scene personnel will be able to better recognize and investigate this potentially lethal act. Health care providers must properly assess and treat those who have experienced strangulation. Finally, prosecutors must develop knowledge about how to charge and prosecute for this action and to effectively use the expert witness to convey the significance that strangulation has on the victim.

Criminalistics, Forensic Nursing Science, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science, Toxicology

Intermediate

Chair:

Clinical Professor and Director
Texas A&M University School of Nursing
Magnolia, TX

Presenters:

Director of Forensic Services
Shasta Community Forensic Care Team
Shasta Community Health Center
Redding, CA

Professor/Coordinator of Advanced
Forensic Nursing
University of Alabama at Birmingham
School of Nursing
Hoover, AL

Co-Chair:

Adjunct Faculty
Oklahoma State University
Center for Health Sciences
Tulsa, OK

Forensic Nurse
AFN
Escondido, CA

Clinical Director of Forensics
Adventist HealthCare
Shady Grove Medical Center
Rockville, MD

8:30 AM – 8:45 AM

8:45 AM – 9:05 AM

9:05 AM – 9:35 AM

9:35 AM – 10:20 AM

10:20 AM – 10:30 AM

10:30 AM – 11:00 AM

11:00 AM – 12:00 PM

12:00 PM – 12:30 PM

WORKSHOPS

Pre-Registration Required—\$125

Several studies conducted over the past 20 years have demonstrated the inconsistent use of the interpretation and comparison protocols within some DNA testing laboratories as well as variability in the reporting of results and conclusions, especially when complex DNA profiles were evaluated that fell outside of the types of profiles routinely evaluated during mandatory proficiency testing. A standard, drafted by the Organization of Scientific Area Committees (OSAC) and developed by the Academy Standards Board (ASB), provides for the continued monitoring of the efficacy and consistent use of the laboratory's protocol. This workshop will focus on the specific requirements of Standard 123 and provide effective mechanisms for implementation of the standard, including the evaluation of the resulting data to ensure quality interpretation and comparison of DNA data. DNA analysts and attorneys will provide insights regarding the importance of and value added through the implementation of this standard.

After attending this workshop, attendees will have a heightened understanding of: (1) the need to monitor the efficacy and consistency of use of the laboratory DNA interpretation and comparison protocols; (2) the specific requirements of Standard 123 and how to implement the standard in a DNA testing laboratory effectively in conjunction with other relevant DNA standards; (3) how to assess the results of the internal evaluation process with appropriate corrective actions; and (4) the legal perspective regarding the consistent use of high-quality interpretation and comparison protocols prior to- and post-conviction and how that may help to provide "Justice for All." The attendees will have the opportunity to network with the speakers and other attendees while discussing implementation options.

This workshop will impact the forensic science community and the "Justice for All" initiative by providing information to laboratory staff, attorneys, and judges regarding the value of performing an annual review of the forensic science service provider's interpretation and comparison protocols. Guidance for monitoring and evaluating the consistency of use and suitability of the protocol within a DNA laboratory via implementation of the ANSI/ASB Standard 123, Standard for Routine Internal Evaluation of the Laboratory's DNA Interpretation and Comparison Protocol, and its possible effect on the judicial system will be the main focus of this workshop.

Criminalistics, Jurisprudence

Basic

Chair:

Consultant
Richmond, VA

Co-Chair:

Attorney, Law Office
Westbrook, MN

Presenters:

Supervisory Biologist
USACIL
Forest Park, GA

Forensic Biology Supervisor
Indiana State Police Laboratory
Indianapolis, IN

Chief, Post Conviction Justice Unit
New York County District
Attorney's Office
New York, NY

WORKSHOPS

1:00 PM – 1:15 PM

1:15 PM – 1:35 PM

1:35 PM – 2:05 PM

2:05 PM – 2:25 PM

2:25 PM – 2:40 PM

2:40 PM – 3:30 PM

3:30 PM – 3:55 PM

3:55 PM – 4:25 PM

4:25 PM – 4:45 PM

4:45 PM – 5:00 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

1

Challenges with the analysis of seized drugs have necessitated research into alternative approaches and technologies to assist forensic laboratories with the identification and quantification of unknown seized drugs. These challenges include the rapidly evolving nature of the seized drug landscape, with the continued emergence of Novel Psychoactive Substances (NPS), the identification of closely related chemical substances, the detection of minor components in mixtures, the differentiation of hemp and marijuana, screening of multiple subunits, and growing backlogs. However, there is a considerable divide between the research community developing these alternative approaches and technologies and actual implementation by practicing forensic laboratories. The Evolving Approaches and Technologies for Seized Drug Analysis subcommittee was established to specifically address this divide by the Forensic Laboratory Needs Technology Working Group (FLN-TWG), which is housed at the National Institute of Justice (NIJ) and supported by the Forensic Technology Center of Excellence (FTCOE) through a cooperative agreement with RTI International.

After attending this workshop, attendees will have learned about readily implementable evolving approaches and technologies to address existing challenges in seized drug analysis. The attendees will learn about emerging technologies, such as Direct Analysis in Real Time-Mass Spectrometry (DART®-MS), gas chromatography-vapor-phase infrared spectroscopy (GC-VIR), Gas Chromatography-Vacuum Ultraviolet spectroscopy (GC-VUV), and Ultra-High Performance Liquid Chromatography-Photo Diode Array Ultraviolet single quadrupole Mass Spectrometry (UHPLC-PDA UV-MS). In addition, attendees will also learn about evolving approaches, such as microcrystal tests and the analysis of marijuana and marijuana products.

This workshop will impact the forensic science community by providing chemists, section leaders, and laboratory managers with the necessary information to determine which evolving approach or technology may be most appropriate to address their specific laboratory needs. Aspects such as the approximate cost, analysis time, capabilities, limitations, and specific challenges that each approach or technology can help address will be provided. Informing the seized drug community about the strengths and limitations of the identified evolving approaches and technologies will better prepare forensic laboratories to make informed decisions about how to combat their specific challenges in seized drug analysis.

Criminalistics, General

Basic

Chair:

Assistant Professor
Sam Houston State University
Conroe, TX

Co-Chair:

Research Chemist
National Institute of Standards
and Technology
Gaithersburg, MD

Presenters:

Forensic Chemistry Manager
Maryland State Police
Forensic Sciences Division
Pikesville, MD

Adjunct Professor/Research Professor
The George Washington University
Washington, DC

Program Manager
National Institute of Justice
Washington, DC

Senior Forensic Chemist
Drug Enforcement Administration
Dulles, VA

WORKSHOPS

1:00 PM – 1:15 PM

1:15 PM – 1:45 PM

1:45 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:15 PM

3:15 PM – 4:00 PM

4:00 PM – 4:30 PM

WORKSHOPS

Pre-Registration Required—\$125

This presentation will provide an overview of the of circumstances that led up to the wounding of New York police officers and the challenges that they faced and still endure. We will engage in an interactive discussion with these officers and learn how they faced aspects of their physical and psychological recovery and the role other factors played in their seeking help such as individual characteristics, the availability of peer support, stigma, family, and social support, gratitude, resilience, and satisfaction with life. Special focus will be given to a traumatic brain injury caused by firearm. This workshop will discuss topics requiring basic knowledge pertaining to brain anatomy, brain function and cognitive and psychological effects of Traumatic Brain Injury (TBI).

After attending this workshop, attendees will: (1) better understand the experiences of police officers who have been severely injured in the line of duty; (2) build skills to identify the many challenges one can face while recovering from a TBI caused by a gunshot wound to the head; (3) be made aware of the physical damaged caused by a Gunshot Wound (GSW) to the head; (4) appreciate the effects of TBI on cognitive and psychological assessment protocols; (5) be informed about the current empirical research and literature on peer assistance programs, peer support, and peer-facilitated interventions for police officers; and (6) have a better understanding of the role social support, gratitude, resilience, and satisfaction with life have on recovery.

Presentations in this workshop will impact the forensic science community through detailed accounts of police officers who were injured in the line of duty. Through their first-hand accounts, these officers will discuss their road to recovery and associated psychological sequela and its impact on their families. The forensic science community was previously introduced to the one of the officers (LCJ) through a presentation at the 75th AAFS Annual Scientific Conference. This workshop will provide the most up-to-date information on the role, responsibilities, and best practices associated with a Peer Support Program.

General, Psychiatry & Behavioral Science

Basic

Chair:

Deputy Director
Psychological Evaluation Section
Medical Division
New York City Police Department
Shrub Oak, NY

Co-Chair:

Clinical Faculty
UCLA School of Medicine
Irvine, CA

Presenters:

Partner/Medical Director
Forensic Radiology Group
Department of Radiology
University of New Mexico
Albuquerque, NM

Chairman/Co-Founder
Westchester B.L.U.E. Foundation
Port Chester, NY

Board of Directors/Detective ()
Westchester B.L.U.E. Foundation/Mount
Vernon Police Department
Mount Vernon, NY

Trustee, Board of Directors
Westchester B.L.U.E. Foundation
New Rochelle, NY

WORKSHOPS

1:00 PM – 1:10 PM

1:10 PM – 1:30 PM

1:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:25 PM

3:25 PM – 3:50 PM

3:50 PM – 4:15 PM

4:15 PM – 4:30 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

This workshop will provide an overview of the Framework for Accreditation of Forensic Units developed as part of cooperative agreement 70NANB21H098 with the National Institute of Standards and Technology (NIST) that can be used by forensic service providers through the accreditation process. The workshop will review the benefits, and the drawbacks, to accreditation for an organization, particularly with respect to Crime Scene Investigation (CSI) and latent print units. It will also discuss why accreditation of Forensic Science Service Providers (FSSPs) is important to the criminal justice system using practical examples in forensics as well as other industries. Attendees will learn what a forensic accreditation program consists of and the structure of the International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 17020 and ISO/IEC 17025 standards used to build a framework, along with the similarities and differences between the two. Attendees will learn how to approach building a quality management system and the overall accreditation process as well as tips for reading and interpreting standards.

After attending this workshop, attendees will understand some principles of ISO accreditation programs and quality management, necessary elements of the requirements in each standard (ISO/IEC 17020 and ISO/IEC 17025), and guidance on how to meet the requirements. Attendees will be provided with resources to help them develop an effective quality management system and become an accredited forensic service provider.

This presentation will impact those in forensic science who are considering accreditation, or beginning the process of obtaining accreditation, by explaining the pieces needed to build a framework of accreditation.

Criminalistics, Digital & Multimedia Sciences, General

Basic

Chair:

Director
RTI International
Research Triangle Park, NC

Co-Chair:

Research Forensic Scientist
RTI International
Research Triangle Park, NC

Presenters:

Physical Scientist
National Institute of Standards and Technology (NIST)
Monrovia, MD

Senior Manager
RTI International
Apex, NC

WORKSHOPS

1:00 PM – 1:15 PM

1:15 PM – 2:15 PM

2:15 PM – 3:15 PM

3:15 PM – 3:30 PM

3:30 PM – 4:30 PM

4:30 PM – 5:30 PM

WORKSHOPS

Pre-Registration Required—\$225

This workshop will demonstrate peer-reviewed, published methods for evaluating DNA evidence given activity level propositions as well as related testimony at court. DNA testimony has moved past the “Who?” questions related to the source of the DNA and it is now common for questions to be asked about “How?” the DNA ended up on the evidence item. While this is often done using hypothetical questions designed to elicit vague answers about “possible” or “could have” or “consistent with,” there are published frameworks and reporting and testimony guidelines available to assist both experts and the court. This workshop will cover the theory and application of Case Assessment and Interpretation (CAI) and Bayesian networks (BN) to evaluate DNA evidence profiles given activity level propositions and the communication of these results via report writing and testimony. A combination of lectures, demonstrations, and hands-on group activities will be used in this workshop. Challenges in both the evaluation of the evidence and with testimony within an adversarial court system will be addressed as well.

After attending this workshop, attendees will be able to communicate expert knowledge on the evaluation of DNA evidence given activity level propositions using a scientifically sound framework and published practices. Participants will understand how to apply the Case Assessment and Interpretation (CAI) framework to perform case pre-assessments, formulate activity level propositions, and assign likelihood ratios for biological evidence given activity level propositions. This knowledge provides attendees with tools to handle hypothetical questions commonly asked in court, how to recognize poorly worded questions, and provide answers to these hypotheticals in a scientifically correct manner.

This presentation will impact the forensic science community by providing guidance for real-world testimony on how to handle DNA testimony when the court’s interest is beyond that of an “inclusion” and its associated sub-source likelihood ratio.

Criminalistics, General, Jurisprudence

Intermediate

Chair:

Associate Professor
Sam Houston State University
Department Forensic Science
Huntsville, TX

Co-Chair:

Associate Professor/Executive Director
UNTHSC Center for Human Identification
Ft. Worth, TX

Presenter:

Forensic Statistician/Lecturer
DC Department of Forensic Sciences
Washington, DC

WORKSHOPS

8:30 AM – 8:45 AM

8:45 AM – 10:00 AM

10:00 AM – 10:30 AM

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10:45 AM – 12:00 PM

12:00 PM – 12:30 PM

12:30 PM – 1:30 PM

1:30 PM – 2:00 PM

2:00 PM – 3:15 PM

All Presenters

3:15 PM – 3:30 PM

3:30 PM – 5:00 PM

5:00 PM – 5:30 PM

WORKSHOPS

Pre-Registration Required—\$225

Digital Multimedia Authentication seeks to determine the validity of digital multimedia containers and contents by investigating their format, structure, time, frequency, pixel and/or sample level features. This workshop will discuss the digital audio and video analysis process providing the user with methods of detecting and authenticating audio, including Deep-Voice, and DeepFake videos. It will also demonstrate the incorporation of multiple tools and techniques into unified frameworks appropriate in forensic examinations where reducing examiner bias and error is crucial.

After attending this workshop, attendees will: (1) be familiar with the latest developments in forensic audio analysis and authentication; (2) understand criteria used for media authentication; and (3) understand how to conduct analysis within a forensic framework and (4) multiple frameworks to use for DeepFake video detection..

This workshop will impact the forensic community by: (1) explaining the scientific approach in forensic audio authentication; (2) demonstrating an authentication investigation framework; (3) discussing tools used to combat multimedia forgery; (4) showing multiple frameworks to use for DeepFake video detection..

Digital & Multimedia Sciences

Intermediate

Chair:

Director
National Center for Media Forensics
Denver, CO

Co-Chair:

Senior Forensic Scientist
Chair Forensic Data Science
NFI / University of Amsterdam,
Den Haag, Zuid-Holland, NETHERLANDS

Presenter:

Senior Professional Research Assistant
National Center for Media Forensics
Denver, CO

8:30 AM – 9:45 AM

Catalin Grigoras, PhD

9:45 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:45 AM

Catalin Grigoras, PhD

11:45 AM – 12:15 PM

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3:30 PM – 4:45 PM

4:45 PM – 5:15 PM

WORKSHOPS

Pre-Registration Required—\$225

This session is a multidisciplinary workshop focused on courtroom testimony. The sessions are geared for all levels of experience from novice to seasoned professional. While the speakers will focus on subjects that include training, preparation, cognitive bias, courtroom technology, and “high profile” cases, the sessions will explore criminal versus civil, deposition versus trial, state versus federal versus military, etc. Various perspectives from the different stakeholders involved are addressed—judge, prosecutor, defense, professional, and consultant.

Upon completion of this workshop, attendees will be better able to understand and perform one of the most challenging parts of any forensic practice—courtroom testimony in its many forms, be it civil or criminal, federal, military, or state, and deposition or trial.

This workshop will impact the forensic science community by providing a multidisciplinary look at the why and how of the practice of courtroom testimony, including recognizing potential challenges and pitfalls.

Anthropology, Criminalistics, Engineering & Applied Sciences, General, Pathology/Biology

Intermediate

Chair:

Medicolegal Consultant
ForensX, LLC
Johns Island, SC

Chief Medical Examiner
Office of the Medical Examiner
Denver, CO

Co-Chair:

Teaching Professor
Forensic & Investigative Sciences Program
Department of Chemistry & Chemical Biology
Indiana University–Purdue University Indianapolis
Indianapolis, IN

Senior Forensic Scientist
FBI Laboratory
Quantico, VA

Managing Partner
The Baez Law Firm
Miami, FL

Presenters:

Co-Founder & Head of Product Development/President
Compendia, Inc.
Forensic Case Solutions, Inc.
Nashville, TN

Professorial Lecturer at Law
The George Washington University
Kinsale, VA

Superior Court Judge
Gwinnett County Georgia
Lawrenceville, GA

WORKSHOPS

8:30 AM – 8:40 AM

8:40 AM – 9:30 AM

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3:30 PM – 4:15 PM

4:15 PM – 4:30 PM

Proceeds from this workshop will benefit the Forensic Sciences Foundation



FSF
FORENSIC SCIENCES
FOUNDATION

WORKSHOPS

Pre-Registration Required—\$225

This workshop provides an introduction to key concepts in probability and statistics for forensic practitioners by linking them to key topics that are currently impacting the forensic community. The target audience is anyone from the forensic science community (practitioners, lawyers, judges, advocates) with a desire to better understand ongoing conversations about error rates, black box studies, inconclusive findings, and likelihood ratios.

Participants will: (1) become familiar with the language and key concepts of probability including the role of populations and sample, laws of probability, dependence/independence of events, conditional probability and Bayes' rule, and the likelihood ratio; (2) become familiar with the language and key concepts of statistical inference including the role of data collection, measurement, error rates, reliability, and validity; (3) understand issues associated with the design, execution, and interpretation of black box studies; (4) understand statistical hypothesis testing and its relevance for the two-stage approach for analyzing forensic evidence; and (5) understand the likelihood ratio / Bayes factor approach to assessing forensic evidence along with its strengths and weaknesses.

Understanding the applications of statistics by the forensic science community will assist practitioners, attorneys, and jurists in evaluating evidence and opinions. The workshop is intended to leave attendees in a position to better understand and engage in ongoing discussions (in the OSAC and other places) about appropriate approaches to assessing forensic evidence and reporting forensic conclusions.

All Disciplines

Basic

Chair:

Forensic Document Examiner
Forensic Science Consultants, Inc
Poway, CA

Co-Chair:

Forensic Document Examiner
Eugene, OR

Presenters:

Principal Analyst
Compass Scientific Consulting LLC
Tucson, AZ

Chancellor's Professor of Statistics
University of California, Irvine
Irvine, CA

8:30 AM – 10:00 AM

10:00 AM – 10:30 AM

10:30 AM – 12:00 PM

12:00 PM – 1:00 PM

1:00 PM – 2:30 PM

2:30 PM – 3:00 PM

3:00 PM – 4:30 PM

WORKSHOPS

Pre-Registration Required—\$225

This workshop is applicable to all forensic science disciplines and will begin with an overview of forensic reconstruction in a broad sense, followed by detailed information on how people process information to come to a conclusion, and culminating with a hands-on practical exercise involving all attendees who will implement the concepts studied and presented. During the presentation, attendees will be instructed on the background of reconstruction and how, by using a multidisciplinary systematic method of inquiry to problem-solving, they will be more likely to come to a logical and factual outcome.

This workshop will assist attendees in understanding and implementing the scientific method of inquiry to criminal investigations and forensic science problems by the use of physical evidence, objective data/information, artifacts of affect, and methods/processes of reasoning, logic, and cognitive learning within the contextual bounds of where this data/information is located, to derive knowledge regarding a particular incident and, when possible, to provide a chronological sequence to the incident.

This workshop is critical to all forensic scientists, crime scene investigative personnel, detectives, pathologists, and attorneys charged with investigating violations of law. By understanding logic, critical thinking, and reasoning, the law enforcement and forensic professional will better understand how their own biases and/or lack of knowledge and understanding can impact their decision-making process that could lead to a flawed outcome or conclusion.

All Disciplines

Basic

Chair:

Professor of Forensic Science/Sirchie Instructor
Methodist University
New London, NC

Co-Chair:

Professor/Program Director of Forensic Science
Methodist University
Fayetteville, NC

Presenters:

Professor of Forensic Science
Methodist University
Greensboro, NC

Sr. Criminalist/Sirchie Instructor
Thornton Police Department
Broomfield, CO

WORKSHOPS

8:30 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 11:30 AM

11:30 AM – 1:00 PM

1:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 5:30 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

3.5

This presentation will provide an overview of campus shootings in America and continue with legislative and legal updates through case analyses. This workshop will explore gender, mental illness, behavior, victimology, and weaponry.

Attendees will be able to assess their role in making positive and effective changes to policy, practice, and research within and among multiple disciplines. Attendees will have the opportunity to discuss their existing practices and brainstorm alternates throughout the presentation.

This presentation will impact the forensic science community by reminding all attendees of their role in making positive and effective changes to eliminate campus shootings by focusing on our historical, during, and post-incident responses and using case analyses to encourage accountability and promote real-time collaborative research and practices within multiple disciplines.

Criminalistics, Digital & Multimedia Sciences, Engineering & Applied Sciences, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Sciences, Questioned Documents, Toxicology

Intermediate

Chair:

Missouri Southern State University
Joplin, MO

Presenters:

Missouri Southern State University
Joplin, MO

Missouri Southern State University
Joplin, MO

Co-Chair:

Harris County District Attorney's Office
Houston, TX

Retired
Franklin, TN

8:30 AM – 8:35 AM

8:35 AM – 9:05 AM

9:05 AM – 9:35 AM

9:35 AM – 10:05 AM

10:05 AM – 10:15 AM

10:15 AM – 10:35 AM

WORKSHOPS

10:35 AM – 11:05 AM

11:05 AM – 11:35 AM

11:35 AM – 12:05 PM

12:05 PM – 12:15 PM

12:15 PM – 12:30 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

After attending this workshop, attendees will be able to discuss examples of teamwork approaches that place forensic scientists on the front lines, addressing the challenges associated with the growing number of emerging drug substances and precursors, the complexity of the analysis, and the impact on enforcement and intelligence investigations.

After attending this workshop, attendees will be able to: (1) describe how forensic techniques can be used beyond simply reporting the presence of controlled substances to provide insights into changes in drug manufacturing and distribution practices; (2) evaluate the differences in analytical capabilities and workflow strategies provided in central laboratories versus front line laboratories; and (3) to explain how forensic analysis impacts intelligence gathering to support investigations, health, and safety.

This workshop will benefit the forensic science community by highlighting the impacts of forensic science collaborations on investigations, epidemiology, drug intelligence, public health, and canine training and operations. It will also highlight how deployment of laboratories on the front lines strengthen the efficiency of these operations, utility of the results, and timeliness of testing.

Criminalistics, General, Jurisprudence, Pathology/Biology, Toxicology

Basic

Chair:

Laboratory Director
DEA
Miami, FL

Presenters:

Assistant Commissioner
U.S. Customs & Border Protection
Montgomery, TX

Nepean, Ontario, CANADA

Co-Chair:

Executive Director
CFSRE
Horsham, PA

Canada Border Services Agency
Ottawa, Ontario CANADA

Principal Technical Advisor
U.S. Customs and Border Protection
Houston, TX

Associate Director
CFSRE
Abington, PA

Deputy Assistant Administrator
Drug Enforcement Administration
Springfield, VA

WORKSHOPS

8:30 AM – 8:45 AM

8:45 AM – 9:15 AM

9:15 AM – 9:45 AM

9:45 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:00 AM

11:00 AM – 11:30 AM

11:30 AM – 12:00 PM

12:00 PM – 12:20 PM

12:20 PM – 12:30 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

Program Description: Socio-technical systems are made up of humans interacting with technology within the confines of an organizational culture. Forensic practice is socio-technical because it involves all these elements. Attendees will learn to see, understand, and manage risk in each of these elements to increase their overall organizational reliability and how to take steps to make their operations resilient.

Attendees will learn to see, understand, and manage risk in within their operations.

The work product of forensic providers is critical to the Criminal Justice System. While there have been advances in overall quality over the years, forensic providers still find themselves reacting to adverse incidents as they become front-page headlines. Attendees will learn proactive approaches that will prevent adverse events from occurring and mechanisms that can be put in place to quickly recover from these incidents if they do occur.

All Disciplines

Basic

Chair:

Consultant
4n6services
Guilderland, NY

Co-Chair:

Forensic Anthropologist
Maricopa County
Office of the Medical Examiner
Phoenix, AZ

Presenter:

Founding Partner
SG Collaborative Solutions
Roanoke, TX

8:30 AM – 9:00 AM

9:00 AM – 9:45 AM

9:45 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 11:15 AM

11:15 AM – 11:35 AM

11:35 AM – 12:00 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

This workshop brings together experts in medicolegal death investigation, forensic pathology, and forensic toxicology to discuss the investigation and toxicological analysis when substance use is suspected, focusing on identifying and certifying these deaths. Common problems faced during the investigation, confounding or competing findings at autopsy, and pitfalls in postmortem toxicological testing and interpretation will be explored. To properly certify these deaths, experts will discuss the impact of information gained from the investigation of the circumstances, autopsy, and appropriate postmortem toxicological testing.

Attendees will be introduced to the essential components necessary for competent medicolegal death investigation and proper certification of suspected substance-related deaths. Experts from their respective fields will discuss death investigation, autopsy, and forensic toxicology. This program focuses on practical information that can be used by the non-pathologist and the pathologist-in-training to understand the necessary task of investigating and certifying these deaths. The importance of proper death certification for public health and safety purposes will be stressed.

This presentation will impact the forensic science community by providing non-pathologists with practical information to help them understand the medicolegal investigative process, toxicological testing, and result interpretations to facilitate the recognition, investigation, and certification of drug intoxication deaths.

Criminalistics, Forensic Nursing Science, General, Jurisprudence, Pathology/Biology, Toxicology

Intermediate

Chair:

Forensic Pathologist
Office of the Chief Medical Examiner
Farmington, CT

Co-Chair:

Director of Toxicological Services
NMS Labs
Langhorne, PA

Presenters:

Research Forensic Scientist
RTI International
Yorba Linda, CA

Deputy Medical Examiner
San Diego County Medical Examiner's Office
San Diego, CA

1:00 PM – 1:05 PM

1:05 PM – 1:45 PM

1:45 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:30 PM

3:30 PM – 4:15 PM

4:15 AM – 4:30 PM

WORKSHOPS

Pre-Registration Required—\$125

This workshop provides insight into the technical and legal challenges that may arise during cross examination, in the context of challenges the community faces if FGG should move further into the court system.

By attending this workshop, attendees will gain a perspective on important issues related to the introduction of FGG in court, from both the prosecution and defense points of view. The mock trial and subsequent discussion will also provide FGG practitioners with insight into how to present expert testimony.

This presentation will impact the forensic science community through a demonstration of the cross examination of a qualified, competent FGG expert witness, to show in real time various technical and legal challenges that may arise in court as FGG moves further into the judicial system.

Criminalistics, General, Jurisprudence

Basic

Chair:

President
Identifinders International LLC
Fountain Valley, CA

Co-Chair:

Chief Executive Officer
Intermountain Forensics
Salt Lake City, UT

Presenters:

Associate Professor/Executive Director
University of North Texas Health Science Center
Ft. Worth, TX

Chief of Operations
United Data Connect
Lakewood, CO

1:00 PM – 1:15 PM

1:15 PM – 1:45 PM

Mike Coble, PhD

1:45 PM – 2:00 PM

2:00 PM – 3:15 PM

3:15 PM – 3:30 PM

3:30 PM – 4:45 PM

4:45 PM – 5:00 PM

All Presenters

WORKSHOPS

Pre-Registration Required—\$125

After attending this workshop, attendees will have learned how fire affects bodies and the ability of researchers and forensic practitioners to obtain skeletal and DNA evidence. The presenters will provide an overview of how bodies burn from case examples as well as experimental burning of complete human bodies and will discuss the classifications used to describe the extent of burning (i.e., the temperatures reached) in bone by previous researchers. Attendees will also learn about DNA extraction methods that have been applied to burned tissue and bone. The presenters will discuss the success of these methods based on data from research projects examining the effects of burning on skeletal remains and on the recovery of DNA from those remains. Attendees will learn how the DNA recovered from these burned remains performs in subsequent Combined DNA Index System (CODIS) Short Tandem Repeat (STR) and Next Generation Sequencing (NGS) analyses that aim to test the limits of DNA recovery from fire-death victims. This workshop probes the methods (and challenges) for obtaining DNA using novel ancient genomic technologies optimized for maximum ultra-short molecular recovery, as well as for obtaining skeletal evidence, including evidence for trauma, from burned human remains.

After attending this workshop, attendees should be able to: (1) describe methods used to characterize the extent of burning in bone; (2) understand the effects of burning on bodies, (3) appreciate the different extraction methods applied to burned and highly degraded skeletal tissues, and (4) evaluate which downstream analyses are likely to produce useful data for case identification.

The recovery and analysis of skeletal evidence and DNA from burned human remains represent some of the most challenging cases in medicolegal investigations. This workshop will impact the forensic science community by increasing attendees' understanding of how burning affects the body and DNA preservation. Specifically, attendees will understand the characteristics used to score the level of burning in bones and the protocols used for optimal recovery of DNA from burned bone and tissue.

Anthropology, Criminalistics

Basic

Chair:

Professor
Arizona State University
Tempe, AZ

Co-Chair:

Assistant Professor
Forensic Anthropology
Arizona State University
Glendale, AZ

Presenters:

Associate Director
Forensic Anthropology Center
University of Tennessee
Knoxville, TN

Forensic Anthropologist
Maricopa County
Office of the Medical Examiner
Phoenix, AZ

Post Doctoral Research Associate
School of Human Evolution
and Social Change
Arizona State University
Gilbert, AZ

Graduate Research Assistant
Arizona State University
Tempe, AZ

Professor
Arizona State University
Tempe, AZ

Research Associate Professor
Forensic Anthropology Center
University of Tennessee,
Knoxville, TN

WORKSHOPS

1:00 PM – 1:15 PM

1:15 PM – 1:45 PM

1:45 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:30 PM

3:30 PM – 4:15 PM

4:15 PM – 4:30 PM

NATIONAL INSTITUTE OF JUSTICE

The National Institute of Justice (NIJ) Forensic Science Research and Development (R&D) Symposium is an open meeting delivered through NIJ's Forensic Technology Center of Excellence (FTCOE) where attendees can learn about NIJ-funded research across a variety of forensic science areas. You can register to attend the Symposium in person or virtually; however, American Academy of Forensic Sciences (AAFS) conference registration is not necessary to attend. Feel free to stop by to listen to specific presentations and view posters or stay all day and learn about the diverse NIJ forensic science R&D portfolio.

More details and registration information can be found here:
<https://forensiccoe.org/event-2024-research-development-symposium/>

The podium presentations will take place from 8:30 AM MST to 5:00 PM MST in Meeting Rooms 205/207 at the Colorado Convention Center. A Q&A session for each presenter will directly follow their presentation. Please note that all times are listed in Mountain Standard Time (MST, UTC-7).

8:30 AM – 8:40 AM

8:40 AM – 9:05 AM

9:05 AM – 9:30 AM

9:30 AM – 9:55 AM

9:55 AM – 10:20 AM

10:20 AM – 10:35 AM

10:35 AM – 11:00 AM

11:00 AM – 11:25 AM

11:25 AM – 11:50 AM

NATIONAL INSTITUTE OF JUSTICE

11:50 AM – 12:15 PM

12:15 PM – 1:25 PM

1:25 PM – 1:50 PM

1:50 PM – 2:15 PM

2:15 PM – 2:40 PM

2:40 PM – 3:05 PM

3:05 PM – 3:20 PM

3:20 PM – 3:45 PM

3:45 PM – 4:10 PM

4:10 PM – 4:35 PM

4:35 PM – 5:00 PM

NATIONAL INSTITUTE OF JUSTICE

The poster presentations will be from 5:00pm MST to 6:30pm MST in Meeting Rooms 201/203 at the Colorado Convention Center. Self-guided tours will begin at 12:00pm MST, and the poster room doors will remain open until 7:00pm MST. For those who wish to access the posters virtually, more information can be found here:

<https://forensiccoe.org/event-2024-research-development-symposium/>

NATIONAL INSTITUTE OF JUSTICE

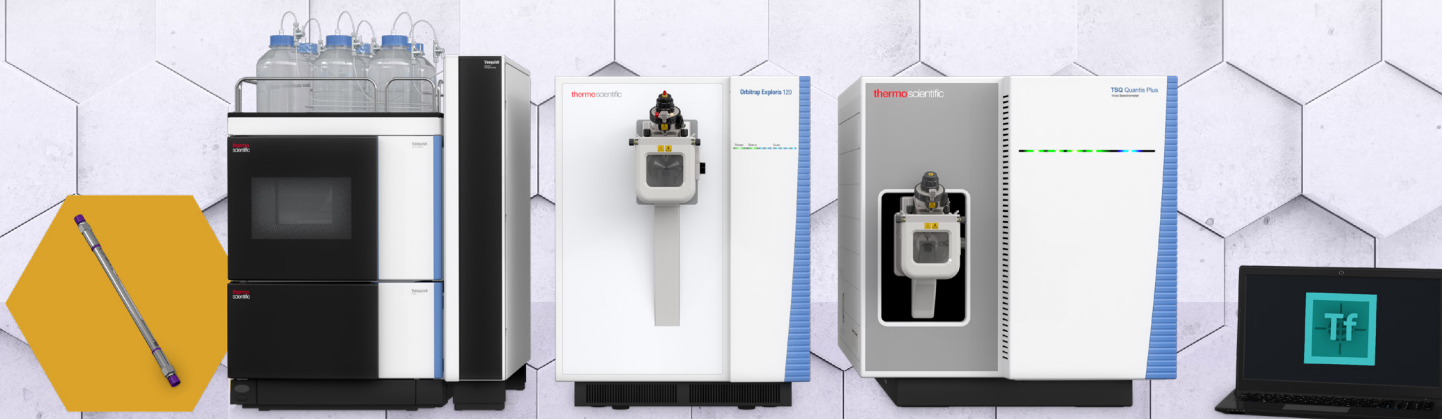
Toxicology

Tox Explorer Collection

An all-in-one LC-MS/MS solution for toxicology

Toxicology laboratories face many challenges, including the need to detect an ever-increasing number of substances at ever-decreasing concentrations. The Thermo Scientific™ Tox Explorer™ Collection allows the worlds toxicology community to navigate with ease to solve complex analytical challenges and increase their laboratory's productivity.

- An all-in-one LC-MS/MS toxicology solution
- Analyze a wide range of drug compounds and their metabolites
- A customizable, single software solution
- HRAM and QQQ MS platforms
- Comprehensive training and support



Learn more at thermofisher.com/ToxExplorer

thermo scientific

ANTHROPOLOGY

Wednesday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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ANTHROPOLOGY

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ANTHROPOLOGY

11:30 AM – 1:00 PM

13

15

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Thursday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

to Inform Postmortem Interval

ANTHROPOLOGY

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Lynx Rufus

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ANTHROPOLOGY

11:30 AM – 1:00 PM

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11:30 AM – 1:00 PM

Thursday—Session I

Moderator: Derek, Boyd, PhD

Co-Moderator: Gabriela Rios Santiago, MSc

8:30 AM – 8:45 AM

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 10:45 AM

ANTHROPOLOGY

Moderator: Kathryn Baustian, PhD

Co-Moderator: Jordan Roberson, BS

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

11:45 AM – 12:00 PM

12:00 PM – 1:15 PM

Moderator: Ellen Fricano, PhD

Co-Moderator: Kewal Krishan, PhD

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

ANTHROPOLOGY

Moderator: Carolyn Isaac, PhD

Co-Moderator: Christopher Goden, MA

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

Moderator: Tiffany Saul, PhD

Co-Moderator: Helen Brandt-Litavec, MS

4:15 PM – 4:30 PM

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4:30 PM – 4:45 PM

4:45 PM – 5:00 PM

5:00 PM – 5:15 PM

5:15 PM – 5:30 PM

ANTHROPOLOGY

Thursday—Session II

Moderator: Xenia Paula Kyriakou, PhD

Co-Moderator: Julie Evo, MSFS

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

Moderator: Xenia Paula Kyriakou, PhD

Co-Moderator: Julie Evo, MSFS

3:15 PM – 3:30 PM

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

ANTHROPOLOGY

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

4:30 PM – 5:00 PM

Friday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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ANTHROPOLOGY

11:30 AM – 1:00 PM

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11:30 AM – 1:00 PM

Moderator: Heather Walsh-Haney, PhD

Co-Moderator: Anthony Lanfranchi, MS

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

ANTHROPOLOGY

Moderator: Lauren Pharr Parks, PhD

Co-Moderator: Micayla Spiros, MS

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

Model

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

11:45 AM – 12:00 PM

12:00 PM – 1:15 PM

Moderator: Mari Isa, PhD

Co-Moderator: Claire Eichen, BA

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

ANTHROPOLOGY

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

Moderator: Amanda Williams, PhD

Co-Moderator: Dayanira Lopez, MS

3:15 PM – 3:30 PM

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4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

4:45 PM – 5:00 PM

5:00 PM – 5:15 PM

CRIMINALISTICS

Wednesday

Poster Session

11:30 AM – 1:00 PM

Analysis to Achieve the Best Outcome for the Survivor

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

B3

Dry Vacuum Recovery of DNA From Fabric

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Cubensis

Psilocybe

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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and Diverse Environments

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

CRIMINALISTICS

11:30 AM – 1:00 PM

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Instruments

11:30 AM – 1:00 PM

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CRIMINALISTICS

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11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Thursday

Poster Session

11:30 AM – 1:00 PM

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CRIMINALISTICS

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

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11:30 AM – 1:00 PM

Images and SNPs

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Technology

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

CRIMINALISTICS

- 11:30 AM – 1:00 PM **B53** **Ten Years of Developing and Improving CSI Camps, Forensic Science Educational Conferences, and Science Museum Programs Toward Enhancing Interest, Attitudes, and Motivation in Forensic Science**
*Steven B. Lee, PhD**; *Mark Okuda, MS*; *Bruce R. McCord, PhD*; *Sara C. Zapico, PhD*;
Sharon L. Plotkin, EdD; *Margie Phipps, MS*; *Analisa Duran, MS*; *Mary Juno, MSc*
- 11:30 AM – 1:00 PM **B54** **A Longitudinal Study on the Odor Stability of Decomposition Simulated Training Aids Under Freezing Conditions**
*Jonathan Bateman Locke**; *Andrea Medrano, MS, BS*; *Paola A. Prada-Tiedemann, MS, BS*;
Chris Holleyman
- 11:30 AM – 1:00 PM **B55** **A Pre-Concentrating Polymer Coating for Improved Detection of Fentanyl and Fentanyl Analogs**
*Galpayage Dona Thouli Lochana Jayawardana, BSc**; *Lauryn DeGreeff, PhD*;
Ashley Fulton, PhD; *Braden C. Giordano, PhD*
- 11:30 AM – 1:00 PM **B57** **An Analysis of Plant Fragments Using X-Ray Fluorescence Spectrometry and X-Ray Absorption Fine Structure Technique Utilizing Synchrotron Radiation**
*Suzuha Kurosugi**; *Yoshinori Nishiwaki*; *Masanobu Mori*
- 11:30 AM – 1:00 PM **B58** **An Analysis of Single Synthetic Fibers by Metallic Components in Dyes by Nanobeam X-Ray Fluorescence Imaging and X-Ray Absorption Fine Structure Technique Utilizing Synchrotron Radiation**
*Keita Miyazaki, BA**; *Yoshinori Nishiwaki*; *Masanobu Mori*
- 11:30 AM – 1:00 PM **B59** **The Application of the Expert Algorithm for Substance Identification (EASI) to the Mass Spectra of Various Bath Salts (Synthetic Cathinones)**
*Glen P. Jackson, PhD**; *Alexandra I. Adeoye, MS*; *Jessica Orris, BS*; *Clarissa McQuain*;
Stephen P. Hokanson, BS
- 11:30 AM – 1:00 PM **B60** **An Assessment of a Combined Field-Portable Raman Spectroscopy and Gas Chromatography/Mass Spectrometry Approach for the Analysis of Seized Drugs**
*Christina Chang, BS**; *Geraldine Monjardez, PhD*; *J. Tyler Davidson, PhD*
- 11:30 AM – 1:00 PM **B61** **An Assessment of Odorant Permeability for Canine Training Aid Mimics in Different Containers Utilizing HS/SPME-GC/MS**
*Kayla Hogan, BS**; *Katherine Dias Castro, BS*; *Janet M. Crespo Cajigas, MS, BS*;
Lauryn DeGreeff, PhD; *Kenneth G. Furton, PhD*
- 11:30 AM – 1:00 PM **B62** **Color, Monogram, and Physical Measurements of Illicitly Manufactured Fentanyl Tablet Exhibits Seized Along the United States Southwestern Border**
*Joshua William Kotchey, MS, BA**; *Joshua S. DeBord, PhD*; *Sarah A. Shuda, MSFS*;
Mia Borrelli, MS, BS; *Amanda L.A. Mohr, MS*; *M.J. Menendez, JD*; *Thom Browne, MA*;
Barry K. Logan, PhD
- 11:30 AM – 1:00 PM **B63** **The Detection of Airborne Methamphetamine in Contaminated Properties and Vehicles Using Active Air Sampling With Liquid Chromatography/Mass Spectrometry (LC/MS)**
*Gemma L. Kerry**; *Emma J. Kuhn, BSc*, *Jackie Wright, PhD*; *Kirstin E. Ross, PhD, BSc*;
Stewart Walker, PhD, BSc
- 11:30 AM – 1:00 PM **B64** **The Development of a Gas Chromatography/Mass Spectrometry/Selected Ion Monitoring (GC/MS/SIM) Method for Analyzing Adulterated Nitazene Samples**
*Alexa Mehlman**; *Alexandra Evans, MFS, BS*; *Ashley N. Stallworth, MS*

CRIMINALISTICS

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM **B72 WITHDRAWN**

Thursday—Session I

Moderator: Charlotte Word, PhD

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

CRIMINALISTICS

9:45 AM – 10:00 AM **B77** **A Global Survey on Activity-Level DNA Evaluative Reporting**
*Devyn Pirtle, BS**; *Mechthild Prinz, MS, PhD*; *Fabio Oldoni, PhD*

10:00 AM – 10:15 AM **BREAK**

Trace and Touch DNA

Moderator: Robin Cotton, PhD

Co-Moderator: Kristy Kadash, PhD

10:15 AM – 10:30 AM **B78** **An Investigation of Handling Time on the Deposition and Persistence of Trace DNA in Pickpocket Scenarios**
*Lauren Hoopes, BS**; *Tiffany A. Kreidler, BS*; *Bas Kokshoorn, PhD*; *Fabio Oldoni, PhD*

10:30 AM – 10:45 AM **B79** **An Evaluation of Transfer, Persistence, and Recovery of Touch DNA From Mobile Phones**
*Ashley J. Moo-Choy, MSc**; *Jamie E. McGregor, HBSc*; *Nicole Novroski*

10:45 AM – 11:00 AM **B80** **The Design of a Protocol for Detecting Trace DNA From Skin-to-Skin Contact in a Mock Physical Assault Scenario**
*McKenna Bonn-Savage, BS**; *Bas Kokshoorn, PhD*; *Megan Foley, MSFS*; *Fabio Oldoni, PhD*

11:00 AM – 11:15 AM **B81** **Direct PCR Amplification for Forensic DNA Profiling From Adhesive Tape-Lift Samples**
*Kevin W.Y. Chong, PhD**; *Hui Yin Tan*

11:15 AM – 11:30 AM **B82** **The Success Rate of Touch DNA**
*Jill Snyder**; *Kaitlyn M. Adams**

11:30 AM – 11:45 AM **B83** **Total Human DNA Sampling**
*Colino Neves**; *Martin Zieger, PhD*

11:45 AM – 12:00 PM **B84** **A Combined Method to Locate and Improve DNA Recovery From Fabrics**
*Makenzie Michelle Driever, BS**; *Rhonda Williams, PhD*

12:00 PM – 1:00 PM **BREAK**

Body Fluid ID

Moderator: Amy Brodeur, MFS

1:00 PM – 1:15 PM **B85** **The Identification of MicroRNAs for Forensic Biofluid Detection Using a MicroRNA Expression Profiling Method**
*Xiaomeng Yang, MS**; *Amy N. Brodeur, MFS*; *Robin W. Cotton, PhD*; *Isabel Luisa Tan Palanca, MS*

1:15 PM – 1:30 PM **B86** **A Microfluidic Approach Toward Automated Forensic Differential Extraction of DNA-Based Sexual Assault Evidence**
*Larissa L. Cunha, BS**; *M. Shane Woolf*; *Sadie Kiendzior, BS*; *Kelsey O'Neill, BS*; *Ellaha Momand, BS*; *James P. Landers, PhD*

1:30 PM – 1:45 PM **B87** **A Comparative Analysis of Swabbing Solutions for Sexual Assault Evidence: The Direct Impact on Spermatozoa and DNA Recovery**
*Olivia Quinn Kassie, BS**; *Sarah Seashols Williams, PhD*; *Laura Gaydosh Combs, PhD*

1:45 PM – 2:00 PM **B88** **The Discovery of Additional Male-Specific Protein Markers in Semen: Potential Applications for the Processing of Sexual Assault Evidence**
*Glendon Parker, PhD**; *Kyle Burk, MSc*; *Mirna Ghemrawi, PhD, MSFS*

CRIMINALISTICS

2:00 PM – 2:15 PM

Body Fluids

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

Moderator: Baneshwar Singh, PhD

Co-Moderator: Amelia Bussell, MSFS

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

CRIMINALISTICS

Thursday—Session II

Standards Development and Related Activities Strengthening Forensic Science

Moderator: Carmen Masters, MSFS

8:30 AM – 8:45 AM	B99	Advances in Canine Science and the Implementation of National Standards <i>Kelvin J. Frank, PhD, MSFS*</i> ; <i>Kenneth G. Furton, PhD</i>
8:45 AM – 9:00 AM	B100	Current and Future Standards Development Activities Related to the Analysis of Seized Drugs <i>Agnes D. Winokur, MS*</i>
9:00 AM – 9:15 AM	B101	Firearms and Toolmarks Standards and Best Practices: A Collaboration of the NIST OSAC and AAFS Standards Board <i>Robert M. Sanger, BA, JD*</i> ; <i>Xiaoyu A. Zheng, MS</i>
9:15 AM – 9:30 AM	B102	OSAC Is Ten Years Old—What Will the Next Decade Bring? <i>Mark D. Stolorow, MS, MBA*</i> ; <i>John Paul Jones, BS, MBA*</i>
9:30 AM – 9:45 AM	B103	Results From an Interlaboratory Study to Evaluate Analytical Schemes in ASTM E2329—Standard Practice for Identification of Seized Drugs <i>Jeremy S. Triplett, MS, BS*</i> ; <i>Michael J. Salyards, PhD, MFS</i> ; <i>Sandra E. Rodriguez-Cruz, PhD</i> ; <i>Jeremiah Morris, BS</i> ; <i>Megan Grabenauer, PhD</i> ; <i>Darryl Creel, MS</i>
9:45 AM – 10:00 AM	B104	Standards Development Activities in Trace Materials <i>Celeste M. Grover, MSFS</i> ; <i>Sandra Koch, PhD*</i>
10:00 AM – 10:15 AM	B105	Standards Development Activities Related to Friction Ridge Examination <i>Heidi Eldridge, PhD, MS*</i> ; <i>Henry Swofford, PhD*</i>
10:15 AM – 10:30 AM	B106	Standards Development Activities Related to Ignitable Liquids, Explosives, and Gunshot Residue <i>Brenda B. Christy, MS*</i>
10:30 AM – 10:45 AM		BREAK

Forensic Science Principles

Moderator: Thaddeus Mostowtt, PhD

10:45 AM – 11:00 AM	B107	A 2024 Update From the Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG) <i>Jaclyn Iera*</i>
11:00 AM – 11:15 AM	B108	The Forensic Science Initiative (FSI): A Pathway to College and STEM Education <i>David Fisher, MS*</i> ; <i>Barbara Elder Weller, EdD*</i> ; <i>Kevin D. Belfield, PhD</i> ; <i>Jacqueline L. Cusack, EdD</i>
11:15 AM – 11:30 AM	B109	What Is the Probability That a True Match Will Appear in the Top K Correlations After a Database Search? <i>Alicia Laura Carriquiry, PhD*</i> ; <i>Heike Hofmann, PhD</i> ; <i>Blanca I. Parker, BS</i> ; <i>Cathryn Barbour, BS</i>
11:30 AM – 11:45 AM	B110	The European Network of Forensic Science Institutes (ENFSI) Guideline for the Calculation of Measurement Uncertainty in Quantitative Forensic Investigation <i>Ivo Alberink, PhD*</i> ; <i>Rosario García-Repetto, PhD</i> ; <i>Maria Luisa Soria Sánchez, PhD</i> ; <i>Jos Tóth, BSc</i>

CRIMINALISTICS

11:45 AM – 1:00 PM

BREAK

Fire Debris and Explosives

Moderator: Tiffany Rodriguez, MS

1:00 PM – 1:15 PM

B111 **A Comparison of Computational and Laboratory-Generated Fire Debris Data**
*Larry Tang, PhD**; *Mary R. Williams, MSc*; *Michael E. Sigman, PhD*

1:15 PM – 1:30 PM

B112 **A Fire Debris Interpretation Using Quantitative Measures of Chromatographic Features in Medium-Range Ignitable Liquids and the Use of Graphical Display to Demonstrate Data Sufficiency**
*Kelsey R. Winters, MSFS**; *Brenda B. Christy, MS*

1:30 PM – 1:45 PM

B113 **An Evaluation of Headspace Solid Phase Microextraction of Diesel Fuel From Cotton Swabs for Forensic Analysis**
*Ting-Yu Huang, MS**; *Jorn Yu, PhD*

1:45 PM – 2:00 PM

B114 **An Evaluation of Tape for the Collection of Ignitable Liquid Residues From Non-Porous and Porous Surfaces**
*Laird Jarrett**; *Cynthia J. Kaeser Tran*

2:00 PM – 2:15 PM

B115 **Expert and AI Opinions: Machine-Assisted Analysis of Fire Debris**
*Michael E. Sigman, PhD**; *Mary R. Williams, MSc*; *Frances A. Whitehead, MS*

2:15 PM – 2:30 PM

B116 **Investigating the Capability of DART®-MS for the Analysis of Common Homemade Explosives**
*Jared Estevanes, BS**; *J. Tyler Davidson, PhD*; *Geraldine Monjardez, PhD*; *Alleigh Couch, BS*

2:30 PM – 3:00 PM

BREAK

Drugs

Moderator: Beth Saucier Goodspeed, MS

3:00 PM – 3:15 PM

B117 **Combining Surface-Enhanced Raman Spectroscopy (SERS) and Paper Spray-Mass Spectrometry (PS-MS) for Illicit Drug Detection and Identification**
Sevde Dogruer Erkok, MSc; *Roxanne Gallois*; *Leon Leegwater*; *Pascal Camoiras Gonzalez, MSc*; *Arian van Asten, PhD**; *Bruce R. McCord, PhD*

3:15 PM – 3:30 PM

B118 **Evaluating the Sensitivity, Stability, and Cross-Reactivity of Commercial Fentanyl Immunoassay Test Strips**
*Sandra E. Rodriguez-Cruz, PhD**

3:30 PM – 3:45 PM

B119 **Exploring Evidence of Common Origin of Recreational Drug Exhibits by GC/MS**
*Joshua S. DeBord, PhD**; *Barry K. Logan, PhD*; *Alex J. Krotulski, PhD*

3:45 PM – 4:00 PM

B120 **GC Derivative VUV Spectroscopy of JWH-018 Positional Isomers and Select Synthetic Cannabinoid Diastereomers**
*Annika Dombrowski, BS**; *Ira Saul Lurie, PhD*

4:00 PM – 4:15 PM

B121 **The Effect of Spectral Intensity on Mass Spectral Discrimination of Fentanyl Positional Isomers**
*Isaac C. Willis, BS**; *Victoria L. McGuffin, PhD*; *Ruth Waddell Smith, PhD*

CRIMINALISTICS

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

Friday—Session I

Moderator: Sheree Hughes, PhD

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

Bos Taurus

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 10:45 AM

Moderator: Kelly Knight, MS

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

Accuracy and Concordance

CRIMINALISTICS

11:30 AM – 11:45 AM

11:45 AM – 1:00 PM

Moderator: Pamela Marshall, PhD

Co-Moderator: TBD

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM **B137 Maximum Recovery of DNA From Degraded Remains**

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

Moderator: Fabio Oldoni, PhD

3:15 PM – 3:30 PM

Cartridge Casings (FCCs) Prior to DNA Processing

CRIMINALISTICS

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

Friday—Session II

Moderator: TBD

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

of Forensic Sciences

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

CRIMINALISTICS

Firearms

Moderator: TBD

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

11:45 AM – 1:00 PM

Moderator: TBD

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

CRIMINALISTICS

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

Moderator: TBD

3:00 PM – 3:15 PM

Soil Minerals

3:15 PM – 3:30 PM

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

the Analysis of Forensic Soil Minerals

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

Saturday

Moderator: Agnes Winokur, MS

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

CRIMINALISTICS

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

DIGITAL & MULTIMEDIA SCIENCES

Thursday

JUST for Starters: Talking About The Forensic Analysis of Mobile Devices

Moderator: Josh Brunty, ScD

8:30 AM – 8:50 AM

Nina Matulis, MS; Umit Karabiyik, PhD; Marcus Rogers, PhD; Baijian Yang*

8:50 AM – 9:10 AM

C2 **A Forensic Analysis on Major Android™ Cloud SDKs**
Chen Shi, PhD; Yong Guan, PhD*

9:10 AM – 9:30 AM

C3 **Geodata Sleuthing: Geo-Contextualized Digital Footprints Analysis to Empower Cyber**
Mohammad Meraj Mirza, PhD; Umit Karabiyik, PhD*

9:30 AM – 9:50 AM

Christopher Michael Haser, BS; Kimberly S. Kunkler, PhD; Lauren L. Richards-Waugh, PhD*

9:50 AM – 10:00 AM

BREAK

Moderator: Vir Phoha, PhD

10:00 AM – 10:20 AM

Mobile Web Browser
Brandon Epstein, MS; Bertram Lyons, MA**

10:20 AM – 10:40 AM

10:40 AM – 11:00 AM

to Risks and Challenges
*Zeno J. Geradts, PhD**

11:00 AM – 11:20 AM

*Zeno J. Geradts, PhD**

11:20 AM – 1:00 PM

BREAK

Moderator: Christina Malone, MSFS

1:00 PM – 1:20 PM

C9 **The Accuracy of Time Stamps on Surveillance Recording Devices**
Benjamin Tyler Molnar, BSME; Toby Terpstra; Tilo Voitell*

1:20 PM – 1:40 PM

*Parris Ward, BA, JD**

DIGITAL & MULTIMEDIA SCIENCES

1:40 PM – 2:00 PM

2:00 PM – 2:20 PM

BREAK

2:20 PM – 2:40 PM

*Andrew N. Crouse, BA**; *Douglas S. Lacey, MS, BS**; *Brian Smith, BS**; *In Yong Shin, BE*;
Louis Chan, BBA; *Ricky W.K. Lam, BS*

2:40 PM – 3:00 PM

*Gregory S. Wales, DFS**

3:00 PM – 3:30 PM

BREAK

Moderator: Grace Rubio, BS

3:30 PM – 3:50 PM

*Joseph Levi White, PhD**

3:50 PM – 4:10 PM

*Ankita Guleria, MSc**; *Rakesh Meena, MSc*; *Nandini Chitara, MSc*; *Vishal Sharma, PhD*;
Kewal Krishan, PhD

4:10 PM – 4:30 PM

*Jason R. Lewis, PhD**

4:30 PM – 5:00 PM

*Joseph Levi White, PhD**

Friday

Moderator: Josh Brunty, ScD

9:00 AM – 9:20 AM

Hope M. Smiley-McDonald, PhD; *John H. Grassel, MS*

9:20 AM – 9:40 AM

*Tracy Walraven, MFS**

DIGITAL & MULTIMEDIA SCIENCES

9:40 AM – 10:00 AM

Melissa Kimbrell; Michelle Montonera, MS

10:00 AM – 10:10 AM

BREAK

Moderator: Alex Nelson, PhD

10:10 AM – 10:30 AM

Nandini Chitara, MSc; Damini Siwan, MSc*; Ankita Guleria, MSc; Rakesh Meena, MSc; Vishal Sharma, PhD; Kewal Krishan, PhD*

10:30 AM – 10:50 AM

10:50 AM – 11:10 AM

Karley Waguespack, BS; Aisha Ali-Gombe, PhD*

11:10 AM – 11:30 AM

*Irfan Ahmed**

11:30 AM – 1:00 PM

BREAK

This JUST In: Tools and Their Developments

Moderator: Christina Malone, MSFS

1:00 PM – 1:20 PM

Alex J. Nelson, PhD; Sheldon L. Douglas*

1:20 PM – 1:40 PM

1:40 PM – 2:00 PM

*Krassimir T. Tzvetanov, MS**

2:00 PM – 2:20 PM

Shinelle Hutchinson; Umit Karabiyik, PhD*

2:20 PM – 2:30 PM

BREAK

DIGITAL & MULTIMEDIA SCIENCES

Moderator: Jason Latham, BA

2:30 PM – 2:50 PM **C29** **Deep Audio Analyzer: A Framework to Industrialize the Research on Audio Forensics**

2:50 PM – 3:10 PM

3:10 PM – 3:30 PM

Kevin Fairbanks, PhD; Mark Guido, MS*

3:30 PM – 3:50 PM

Petra Urbanova, PhD; Dominik Cerny, MSc; Tomas Goldmann, MSc*

ENGINEERING & APPLIED SCIENCES

Thursday

Poster Session

11:30 AM – 1:00 PM

*Massimiliano Esposito, MD**; *Gluseppe Li Rosi, PhD*; *Elisa Pappalardo, MD*; *Monica Salerno, MD*

Moderator: Kurt Weiss, MS

Co-Moderator: David Pienkowski, PhD

8:30 AM – 8:45 AM

*Brian Herbst, PE**; *Chris Clarke, BS*

8:45 AM – 9:05 AM

*Mark C. Pozzi, MS**

9:05 AM – 9:20 AM

*Jorge Mendoza, BS**

9:20 AM – 9:30 AM

Pretensioners Interact

*Adam Goodworth, MS, PhD**

9:30 AM – 9:50 AM

9:50 AM – 10:10 AM

*Kurt D. Weiss, MSME**; *Jorge Mendoza, BSME*

10:10 AM – 10:30 AM

*Mark C. Pozzi, MS**

10:30 AM – 10:45 AM

*Jorge Mendoza, BS**

10:45 AM – 11:45 AM

*Darren Franck, MSME**; *Harold Franck, MSEE**; *Vincent D. Franck*; *Alexander Franck*

11:45 AM – 1:00 PM

ENGINEERING & APPLIED SCIENCES

Moderator: Jatin Bodwal, MD

1:00 PM – 1:20 PM

1:20 PM – 1:40 PM

1:40 PM – 2:00 PM

*Mike Wakshull, MS, BS**

2:00 PM – 2:20 PM

*Carole E. Chaski, PhD**

2:20 PM – 2:35 PM

Moderator: Jatin Bodwal, MD

2:35 PM – 2:55 PM

*Willem A. Schreuder, PhD**

2:55 PM – 3:25 PM

3:25 PM – 3:30 PM

3:30 PM – 3:50 PM

Moderator: Carole Chaski, PhD

3:50 PM – 4:05 PM

4:05 PM – 4:25 PM

*Rebecca L. Shute, MS**

4:25 PM – 4:40 PM

Elvira Ventura Spagnolo, MD; Alessio Asmundo, MD

4:40 PM – 5:00 PM

ENGINEERING & APPLIED SCIENCES

Friday—Session I

Poster Session

11:30 AM – 1:00 PM

*Chan-Seong Park, PhD**

Moderator: Harold Franck, MSEE

Co-Moderator: Darren Franck, MSME

8:30 AM – 9:00 AM

9:00 AM – 9:30 AM

9:30 AM – 9:50 AM

Brendan Bourdage, PhD; John Smith, MSEE, PE; Peter Alexander, PhD*

9:50 AM – 10:25 AM

10:25 AM – 10:40 AM

Moderator: Harold Franck, MSEE

Co-Moderator: Darren Franck, MSME

10:40 AM – 11:00 AM

Entesar Al-Hetlani, PhD; Zainab Hussain; Meshari Al-Qalfas; Mohamed Amin, PhD;
Igor K. Lednev, PhD*

11:00 AM – 11:15 AM

11:15 AM – 11:35 AM

Mohamed Amin, PhD; Entesar Al-Hetlani, PhD; Igor K. Lednev, PhD*

11:35 AM – 11:55 AM

11:55 AM – 1:00 PM

ENGINEERING & APPLIED SCIENCES

Environmental

Moderator: Kurt Weiss, MS

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

Moderator: Kurt Weiss, MS

2:00 PM – 2:20 PM

*Colton B. Wolk, BS**

2:20 PM – 2:40 PM

*Colton B. Wolk, BS**

2:40 PM – 3:00 PM

3:00 PM – 3:20 PM

*Samuel Olanrewaju, MA**

3:20 PM – 3:35 PM

Samuel Olanrewaju, MA

Friday—Session II

Moderator: Kathy Bell

Co-Moderator: Paul Johnson, PhD

9:00 AM – 9:15 AM

*David Pienkowski, PhD, MBA**

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

*Helmut G. Brosz, BAsC, DBA**

ENGINEERING & APPLIED SCIENCES

9:45 AM – 10:00 AM	E21	Interdisciplinary Research Related to Sexual Violence and Dating App Usage <i>Emma Mae Walquist, BS*</i> ; <i>Douglas Zytka</i> ; <i>Michele Parkhill</i> ; <i>Melissa M. McDonald, PhD</i> ; <i>Kelly A. Berishaj, DNP, MSN</i> ; <i>Wenqi Zheng, MS, BA</i> ; <i>Xiangyu Zhou</i> ; <i>Dongxiao Zhu</i>
10:00 AM – 10:15 AM	D40	Powered Two-Wheeler Safety: An Experimental Analysis of Injuries and Injury Mechanisms Using Instrumented PMHS <i>John H. Bolte, PhD, MSc*</i> ; <i>Amanda M. Agnew, PhD</i> ; <i>Yun-Seok Kang, PhD</i>
10:15 AM – 10:30 AM		BREAK
10:30 AM – 10:45 AM	E22	Shaken Baby Syndrome—A Force to Be Reckoned With: A Case Review <i>Janean M. Fossum, BSN*</i>
10:45 AM – 11:00 AM	D41	What Is Known About Pregnant Occupants and Fetal Risk in Car Crashes <i>Adam Goodworth, MS, PhD*</i> ; <i>Ciboney Hellenbrand</i> ; <i>Charlotte Bloom</i> ; <i>Ashley Pitzen</i>
11:00 AM – 11:15 AM	E23	“Compressed Baby Head”: A New “Abusive Head Trauma” Entity? <i>Enrica Macorano, MD*</i> ; <i>Mattia Gentile</i> ; <i>Giandomenico Stellacci</i> ; <i>Mariano Manzionna</i> ; <i>Stefano Duma, MD</i> ; <i>Raffaella Minella</i> ; <i>Aldo Di Fazio</i>
11:15 AM – 11:30 AM	D42	A Child Fatality in a Vehicular Rear Impact: A Forensic Analysis and Static Testing to Scientifically Prove Seat and Belt Failures <i>Mark C. Pozzi, MS*</i>

FORENSIC NURSING SCIENCE

Thursday

Poster Session

- 11:30 AM – 1:00 PM **E1** **Is a Nurse Also a Forensic Nurse? Gaining a Forensic Insight: Empowering Nurses in Addressing Interpersonal Violence**
*Valeria Kaegi, RN; Michael J. Thali, MD**
- 11:30 AM – 1:00 PM **E2** **The Progress of Forensic Nursing in Japan**
Naomi Kano; Nanako Yoneyama, MS*

Morning Session

Moderator: Laurie Charles, MSN

Moderator: Sylvia Perez, BSN

9:00 AM – 9:15 AM

Forensic Programs in a Rural State
Kacie Parrish, BSN, RN; Abigail Ellis, BSN*

9:15 AM – 9:30 AM

L. Kathleen L. Sekula, MSN, PhD; Cheryl Wier, MSN, RN; Susan Buxbaum, DNP; Meghan Currie, BS*

9:30 AM – 9:45 AM

Jamie Ferrell, MBA, BSN; Mary E. Carrillo, MSN, MBA; Bryan Sisk, DNP, MPH*

9:45 AM – 10:00 AM

Sabrina Riddles; Ricardo Ruiz; Gang Han; Rebecca Vieh, MS; Nancy R. Downing, PhD*

10:00 AM – 10:15 AM

Jessica Volz, DNP; Rachael Goodman-Williams, PhD**

10:15 AM – 10:30 AM

BREAK

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

- E9** **Stay at Home, Stop the Virus, Stay Safe? The Impact of the Coronavirus Pandemic on**
Kate Wilson, MS, BSc; Sajeel Shah, PhD, MS; Nikolas Lemos, PhD*

11:00 AM – 11:15 AM

Partner Violence in Israel Talk
Orli Grinstein-Cohen, RN, PhD; Bar Eisenmann, RN*

11:15 AM – 11:30 AM

- E11** **Forensic Nursing in the Balkan Region**

11:30 AM – 1:00 PM

BREAK

FORENSIC NURSING SCIENCE

Moderator: Michelle Patch, PhD, MSN

Co-Moderator: Moderator: Jessica Volz, DNP

1:00 PM – 1:15 PM	E12	Sexual Assault Has a Chokehold on Forensic Nursing
1:15 PM – 1:30 PM		the Emergency Department <i>Laura La Cagnina, DNP, RN*</i>
1:30 PM – 1:45 PM		<i>Janean M. Fossum, BSN*</i>
1:45 PM – 2:00 PM		<i>Jessica Volz, DNP*; Karen Heaton, PhD; Patricia M. Speck, DNSc</i>
2:00 PM – 2:15 PM		BREAK
2:15 PM – 2:30 PM		<i>Virginia A. Lynch, MSN*; Carrie E. Edwards, PhD*</i>
2:30 PM – 2:45 PM		
2:45 PM – 3:00 PM		<i>Thiago Augusto Soares Monteiro da Silva*; Débora Fernanda Haberland; Thais da Silva Kneodler; Alex Coelho da Silva Duarte; Joyce P. Williams, DNP, RN; Alexandre Barbosa de Oliveira</i>
3:00 PM – 3:15 PM	E19	The Role of the Forensic Nurse as a New Method of Managing the Quality and Timeliness of Carrying Out the Autopsy

FORENSIC NURSING SCIENCE

Friday

Multidisciplinary Session: Engineering & Applied Sciences and Forensic Nursing Science

Moderator: Kathy Bell

Co-Moderator: Paul Johnson, PhD

- | | | |
|---------------------|------------|---|
| 9:00 AM – 9:15 AM | D38 | Bone Injuries in Nursing Home Residents
<i>David Pienkowski, PhD, MBA*</i> |
| 9:15 AM – 9:30 AM | E20 | Crowd Surge Triggers and Mitigating Factors
<i>David A. Williams, DDS, MPH*; Joyce P. Williams, DNP, RN</i> |
| 9:30 AM – 9:45 AM | D39 | Electrical Injury Causes: Part 2—Evidence Retention
<i>Helmut G. Brosz, BAsC, DBA*</i> |
| 9:45 AM – 10:00 AM | E21 | Interdisciplinary Research Related to Sexual Violence and Dating App Usage
<i>Emma Mae Walquist, BS*; Douglas Zytka; Michele Parkhill; Melissa M. McDonald, PhD; Kelly A. Berishaj, DNP, MSN; Wenqi Zheng, MS, BA; Xiangyu Zhou; Dongxiao Zhu</i> |
| 10:00 AM – 10:15 AM | D40 | Powered Two-Wheeler Safety: An Experimental Analysis of Injuries and Injury Mechanisms Using Instrumented PMHS
<i>John H. Bolte, PhD, MSc*; Amanda M. Agnew, PhD; Yun-Seok Kang, MD</i> |
| 10:15 AM – 10:30 AM | | BREAK |
| 10:30 AM – 10:45 AM | E22 | Shaken Baby Syndrome—A Force to Be Reckoned With: A Case Review
<i>Janean M. Fossum, BSN*</i> |
| 10:45 AM – 11:00 AM | D41 | What Is Known About Pregnant Occupants and Fetal Risk in Car Crashes
<i>Adam Goodworth, MS, PhD*; Ciboney Hellenbrand; Charlotte Bloom; Ashley Pitzen</i> |
| 11:00 AM – 11:15 AM | E23 | ”Compressed Baby Head”: A New ”Abusive Head Trauma” Entity?
<i>Enrica Macorano, MD*; Mattia Gentile; Giandomenico Stellacci; Mariano Manzionna; Stefano Duma, MD; Raffaella Minella; Aldo Di Fazio</i> |
| 11:15 AM – 11:30 AM | D42 | A Child Fatality in a Vehicular Rear Impact: A Forensic Analysis and Static Testing to Scientifically Prove Seat and Belt Failures
<i>Mark C. Pozzi, MS*</i> |

GENERAL

Wednesday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Estreylla D. Sierra, MS**; *Jan Halamek, PhD*

11:30 AM – 1:00 PM

*Kapil Kumar**; *Ashok Kumar Jaiswal, PhD*; *T. Millo*

11:30 AM – 1:00 PM

*Lacey Victoria Sharman**; *Amanda C. Chee-Awai*; *Tamra Legron-Rodriguez, PhD*

11:30 AM – 1:00 PM

*Delaney Edwards, MA**; *Mariyam I. Isa, PhD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Mohamed Amin, PhD**; *Entesar Al-Hetlani, PhD*; *Igor K. Lednev, PhD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

GENERAL

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Luigi Papi, MD; David Forni, MD; Claudia Giaconi, MD; Silvio Chericoni, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Madeline Rivera, MS; Ismail M. Sebetan, MD, PhD*; Paul Stein, PhD**

11:30 AM – 1:00 PM

Kimberlee S. Moran, AB, MSc

11:30 AM – 1:00 PM

Gianmarco Di Palma, MD; Valeria Prandini, MD; Gaia Tamellini, MD; Domenico De Stradis; Lara Malaspina, MD; Gulnaz T. Javan, PhD; Silvia D. Visonà, MD, PhD; Luca Morini, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Amanda C. Chee-Awai; Lacey Victoria Sharman; Tamra Legron-Rodriguez, PhD*

11:30 AM – 1:00 PM

Alicja Copik

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Sarah Jackman, BS; Josep De Alcaraz-Fossoul, PhD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Sami Souccar; Juan Carrillo; Brice Hunt, MD*

11:30 AM – 1:00 PM

*Sharon K. Moses, PhD**

GENERAL

11:30 AM – 1:00 PM

*Sami Souccar**; *Brice Hunt, MD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Christopher Dudzik, MA, BS**; *Gloria Raise*; *Amanda Joy O'Connor, BS*;
*Denise Gemmellaro, PhD**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

F36

Staphylococcus Aureus

11:30 AM – 1:00 PM

*Robert Eckstein, PsyD**; *Amy Michael, PhD*

Thursday—Session I

Moderator: Bryan Brendley, PhD

8:30 AM – 8:45 AM

*Oscar Ibáñez Panizo, PhD**; *Enrique Bermejo, PhD*; *Alejandro Manzanares*;
Antonio David Villegas, MSc, BS; *Andrea Valsecchi, PhD*

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

*Daniel Marion, MFA, PhD**

GENERAL

9:15 AM – 9:30 AM

*Steven L. Johnson, BS**

9:30 AM – 9:45 AM

*Kewal Krishan, PhD**

9:45 AM – 10:00 AM

*Kewal Krishan, PhD**

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

Moderator: Tom Bevel, MA

10:30 AM – 10:45 AM

Lilly G. Crowns, BS; Stacey Murthy, MD; John Briggs*

10:45 AM – 11:00 AM

Alessio Asmundo, MD; Elvira Ventura Spagnolo, MD

11:00 AM – 11:15 AM

*Pierre Guyomarc'h, PhD**

11:15 AM – 11:30 AM

Antonina Argo

11:30 AM – 11:45 AM

11:45 AM – 12:00 PM

12:00 PM – 12:15 PM

Marcello Seligardi; Edda E. Guareschi, MD, PhD; Laura Donato; Francesco Calabrò;
Rossana Cecchi, MD*

12:15 PM – 1:45 PM

GENERAL

Moderator: Eugenio Alladio, PhD

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

Tynan Peterson, MA, BFA; Melanie Thomas Armstrong, BA*

2:15 PM – 2:30 PM

Michelle S. Clark, BS, MS; James R. Gill, MD*

2:30 PM – 2:45 PM

Ludovica Busillo, MD; Gaetano Di Donna, MD; Carmen Imma Aquino, MD;
Mariagrazia Marisei, MD; Anita Sammarco, MD; Pierpaolo Di Lorenzo, MD;*

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

Cold Cases

Moderator: Taylor Lowry, BS, BA

3:30 PM – 3:45 PM

Andrea Palamenghi, BSc; Greta Cena, MD; Luca Salvaderi, BSc; Carlo Robino, MD, PhD;

3:45 PM – 4:00 PM

*Colleen M. Fitzpatrick, PhD**

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

*Tracy Brisendine, BA**

4:30 PM – 4:45 PM

*Beth S. Goodspeed, MS**

4:45 PM – 5:00 PM

Traci L. Van Deest, PhD; Sarah Barksdale, PhD*

GENERAL

Thursday—Session II

Moderator: Kyle Scherrer, MSFS

Co-Moderator: Amber Riley, MS

8:30 AM – 8:45 AM

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

Amethyst Crowe, BA; Chiara Mancini, DO

9:15 AM – 9:30 AM

*Jagmahender Singh Sehrawat, PhD**

9:30 AM – 9:45 AM

Vina R. Vaswani, MD, PhD; Bert Gordijn, PhD*

9:45 AM – 10:00 AM

*Kim Fallon, BS**

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

Moderator: Francesco Sessa, PhD, MS

10:30 AM – 10:45 AM

Paola A. Prada-Tiedemann, PhD; Sara S. Perry, BS; Kenneth G. Furton, PhD*

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

*Victor Omondj, BSc, MSc**

GENERAL

11:30 AM – 11:45 AM

David Silveira, MS; Ashley Kendell, PhD; Beth Shook, PhD*

11:45 AM – 12:00 PM

F76 *In Situ*

*Igor K. Lednev, PhD**

12:00 PM – 12:15 PM

*Steven Pavlovich, RMT**

12:15 PM – 1:00 PM

Moderator: Cliff Akiyama, MPH, MA

Co-Moderator: Imron Ramos, MFS

1:30 PM – 1:45 PM

Gilles P. Tournel, MD, PhD; Bérengère Dautreme; Audrey Servoise; Elise Hardoin; Benjamin Charroy; Lisa Gouellain; Albane Guigne*

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

Britny A. Martlin, BA, MSc; Lynne S. Bell, MSc, PhD*

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

Katherine M. Brown, PhD; Cortney A. Franklin, PhD; Tara O. Shelley, PhD*

2:45 PM – 3:00 PM

*Hind Abouzahir, MD, PhD**

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

*John Morgan**

3:30 PM – 3:45 PM

*Garima Chaudhary, PhD**

GENERAL

Friday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Ibrahim Jibril Adem; Lemi Tolu, MD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Gabriele Licciardello, MD; Francesco Sessa, MS, PhD; Monica Salerno, MD;*

11:30 AM – 1:00 PM

Fabrizio Vanaria

11:30 AM – 1:00 PM

Maria Paola Pinacchi; Giuseppe Li Rosi, MD; Monica Salerno, MD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Isabelle, MD; Alain Miras, PhD, MD*

11:30 AM – 1:00 PM

M. Eric Benbow, BS, PhD

11:30 AM – 1:00 PM

GENERAL

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Rodrigo D. Heringer**; James Ranville, MS, PhD; Olga Meili

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Rodrigo D. Heringer**; Henrique José Ferraz Fabrino, PhD; Rogerio Araujo Lordeiro, MS

11:30 AM – 1:00 PM

*Shubham Thakur, PhD, MSc**; Jagmahender Singh Sehrawat, PhD

11:30 AM – 1:00 PM

*Gennaro Baldino, MD; Elvira Ventura Spagnolo; Daniela Sapienza**

11:30 AM – 1:00 PM

*Kyra Miller, BS**; Kimberlee S. Moran, MSc; Carla Cugini

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Jagmahender Singh Sehrawat, PhD**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Gennaro Baldino, MD**; Giovanni Bartoloni; Antonio Cascio; Simona Pellicano, MD;

*Elvira Ventura Spagnolo, MD**

GENERAL

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Patrizia Gualniera; Daniela Sapienza, MD; Alessio Asmundo, MD; Elvira Ventura Spagnolo, MD**

11:30 AM – 1:00 PM

Alessio Asmundo, MD; Elvira Ventura Spagnolo, MD

11:30 AM – 1:00 PM

Luca Tomassini; Manta Anna Maria, MD*; Daniele Paolini, MD;*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD**

11:30 AM – 1:00 PM

Alessandro Feola, MD, PhD; Mariavictoria De Simone, MD; Filomena Casella, MD;*

Carlo Pietro Campobasso, MD, PhD

11:30 AM – 1:00 PM

A Case Series

*Luigi Cipolloni, MD**

GENERAL

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Jagmahender Singh Sehrawat, PhD**; *Deeksha Sankhyan*; *Shubham Thakur, PhD, MSc*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Friday—Session I

Moderator: Emily Ditto, BA

8:30 AM – 8:45 AM

8:45 AM – 9:00 AM

*Taylor Lowry, BA, BS**

9:00 AM – 9:15 AM

*Julie A. Howe, MBA**; *Steve Clark, PhD**; *Amy M. Hawes, MD*

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

*Kelly Keyes, BS**; *Kathryn E. Greenwell, BA*; *Hope M. Smiley-McDonald, PhD*;
Connor Brooks, MSc, MA; *Heather G. Meier, BS*; *Jeri D. Roper-Miller, PhD*

10:15 AM – 10:30 AM

GENERAL

Moderator: Mark Goff, BA

10:30 AM – 10:45 AM

Kelly Keyes, BS; Michelle Rippy, MFS, EdD*

10:45 AM – 11:00 AM

Manreet Bhullar, MPH; Megan K. Broekemeier, MPH; Myles D. Davenport, MPH;

11:00 AM – 11:15 AM

*Denise C. Murmann, DDS**

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

Jeri D. Roper-Miller, PhD; Hope M. Smiley-McDonald, PhD; Connor Brooks, MSc, MA;
Erin P. Forry, MS*

11:45 AM – 12:00 PM

Connor Brooks, MSc, MA; Hope M. Smiley-McDonald, PhD; Jeri D. Roper-Miller, PhD;
Kathryn E. Greenwell, BA*

12:00 PM – 1:30 PM

Moderator: Erin Worrell, BSc

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

Kelsie Bryand, MS, BA; Andra Lewis-Krick, PhD*

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

GENERAL

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

Moderator: TBD

3:30 PM – 3:45 PM

*Melanie Thomas Armstrong, BA**

3:45 PM – 4:00 PM

*Anita Marie Roman**

4:00 PM – 4:15 PM

*Stacey L. Chepren, MFS, MSc**

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

*Amanda Fitch, MS**

4:45 PM – 5:00 PM

*Stacey L. Chepren, MFS, MSc**

Friday—Session II

Moderator: TBD

8:30 AM – 8:45 AM

*Claire E. Shepard, MS**

8:45 AM – 9:00 AM

Joe C. Trevino, MS, BS; Amanda A. Murray, PhD**

9:00 AM – 9:15 AM

GENERAL

9:15 AM – 9:30 AM

*Tamra Legron-Rodriguez, PhD**

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

Moderator: TBD

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

Antonel Olckers, PhD; Mehdi Ben Khelil, MD*

11:00 AM – 11:15 AM

Giovanni Aulino, MD; Flavia Beccia, MD; Michele Rega, MD; Chiara Siodambro, MD;*

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

Amir Alipour Yengejeh, MD; Larry Tang, PhD*

11:45 AM – 12:00 PM

12:00 PM – 12:15 PM

Jeri D. Roper-Miller, PhD; Rebecca L. Shute, MS*; Gabrielle Elise DiEmma, MS;
Cody Sorrell, MS, BA*

12:15 PM – 12:30 PM

12:30 PM – 1:30 PM

GENERAL

Standards

Moderator: TBD

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

Hope M. Smiley-McDonald, PhD

2:00 PM – 2:15 PM

Allison Getz, MS; Karen K. Reczek**

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

Vincent J. Desiderio, MS; Steven L. Johnson, BS*; John Paul Jones, BS, MBA; Allison Getz, MS; Mark D. Stolorow, MS, MBA*

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

*Joe C. Trevino, MS, BS**

3:15 PM – 3:30 PM

3:30 PM – 3:45 PM

3:30 PM – 3:45 PM

Mauro Midiri, MD; Giuliana Malandrino, MD; Giovanni Scalzo, MD; Chiara Rizzo, MD;*

JURISPRUDENCE

Thursday

Moderator: Lynn Garcia, JD

8:00 AM – 8:30 AM

*Dana Delger, JD**; *John Paul Jones, BS, MBA**

8:30 AM – 9:00 AM

*Mark D. Stolorow, MS, MBA**; *Vincent Desiderio, Jr., MSFS**; *John Paul Jones, BS, MBA*;
Allison Getz, MS; *Steven L. Johnson, BS*

9:00 AM – 9:30 AM

*Vincent J. Desiderio, MS**; *Mark D. Stolorow, MS, MBA**; *John Paul Jones, BS, MBA*;
Allison Getz, MS; *Steven L. Johnson, BS*

9:30 AM – 10:00 AM

10:00 AM – 10:15 AM

Moderator: M.J. Menendez, JD

Co-Moderator: Mary Dayton, JD

10:15 AM – 10:45 AM

this presentation will be given via pre-recorded video)

*John Haried, JD**

10:45 AM – 11:15 AM

*Valeria N. Spencer, JD**

11:15 AM – 11:45 AM **G7**

*Barbara P. Hervey, JD**

11:45 AM – 12:15 PM **G8**

*Donald E. Shelton, JD, PhD**

12:15 PM – 1:15 PM

Moderator: Paul Messner, JD

Co-Moderator: Sarah Chu, PhD

1:15 PM – 1:45 PM

*Tania C. Brief**; *Lauren Gottesman**

JURISPRUDENCE

1:45 PM – 2:15 PM

*Peter Alexander, PhD**; *Brendan Bourdage, PhD*; *John Smith, MSEE, PE*

2:15 PM – 2:45 PM

*John Morgan**

2:45 PM – 3:00 PM

*Leigh M. Tomlin, JD**; *Lynn Garcia, JD*; *John Morgan*; *Marna L. McLendon, JD, MFS*

3:00 PM – 3:20 PM

*Jeff Teitelbaum**; *Gerald LaPorte, MSFS*

3:20 PM – 3:30 PM

Moderator: Terri Rosenblatt, JD

3:30 PM – 4:00 PM

*Tim Kalafut, PhD**

4:00 PM – 4:30 PM

*Michael J. Salyards, PhD, MFS**

4:30 PM – 5:00 PM

*Greg Hampikian, PhD**

5:00 PM – 5:30 PM

*Colleen M. Fitzpatrick, PhD**

Friday

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

JURISPRUDENCE

11:30 AM – 1:00 PM

*Katherine A. Roberts, PhD**; *Paula Mitchell, JD*; *Paige McGrail, JD*; *Eliza Haney, JD*;
Ayesha Hussain, JD; *Hilary Morman, JD*; *Mehul Anjaria, BS, MS*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Rajender Kumar, MBBS, MD**; *Mukta Kumar, MBBS, MD**; *Munish Sharma, MBBS MD*;

11:30 AM – 1:00 PM

*Hasna M. Sheikh, LLM**; *Elsbeth Guild*; *Nicholas P. Lemos, PhD*

11:30 AM – 1:00 PM

*Maria Nectaria Antoniou, LLM, MSt**; *Vaughn Rossouw, LLM, LLB**; *Stephen A. Fonseca, BTech*;
Pierre Guyomarc'h, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Pancham Preet Kaur, LLM**

11:30 AM – 1:00 PM

*Dinkar Vr, LLM, PHD**

Moderator: Thomas Busey

8:00 AM – 8:30 AM

*Gene Peters**

8:30 AM – 9:00 AM

9:00 AM – 9:30 AM

Johannes Soons, PhD; *Robert M. Thompson, MFS, BS*; *Vincent Desiderio, Jr., MSFS*;
John Paul Jones, BS, MBA; *Robert Ramotowski, MS*

9:30 AM – 10:15 AM

*JoAnn Buscaglia, PhD**

JURISPRUDENCE

10:15 AM – 10:45 AM

Robert Thompson, MS

10:45 AM – 11:00 AM

Moderator: Nicolas Hughes, JD, MS

Co-Moderator: Leigh Tomlin, JD

11:00 AM – 11:30 AM

Allison Lewis, JD, BA; Andrew Baker, MD**

11:30 AM – 12:00 PM

*Nancy R. Downing, JD**

12:00 PM – 12:30 PM

*Joseph Levi White, PhD**

12:30 PM – 1:45 PM

Moderator: Dawn Boswell, JD

Co-Moderator: Jarrah Kennedy, MSFS

1:45 PM – 2:15 PM

*John M. Butler, PhD**

2:15 PM – 3:15 PM

Robert Bever, PhD

3:15 AM – 3:30 PM

Moderator: Dawn Boswell, JD

Co-Moderator: Jarrah Kennedy, MSFS

3:30 PM – 4:00 PM

Melissa Taylor; Nikola Osborne, PhD**

4:00 PM – 4:45 PM

ODONTOLOGY

Thursday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

A Pilot Study

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Moderator: Ray Miller, DDS

8:30 AM – 8:45 AM

18

8:45 AM – 9:15 AM

ODONTOLOGY

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

10:30 AM – 10:45 AM

Moderator: Sarah Friend, DDS

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

11:45 AM – 12:00 PM

12:00 PM – 1:15 PM

ODONTOLOGY

Moderator: Cristiana Palmela Pereira, PhD

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

3:00 PM – 3:45 PM

Moderator: Lindsay Spears, DDS

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

4:45 PM – 5:00 PM

5:00 PM – 5:15 PM

ODONTOLOGY

Friday

Moderator: Mary Speicher, DMD

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

9:30 AM – 10:00 AM

10:00 AM – 10:15 AM

PATHOLOGY/BIOLOGY

Wednesday

Poster Session

11:30 AM – 1:00 PM

*Ashley Lukefahr, MD**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Sharon Duzioni, MD; Donna Gherardi, MD; Paolo Nozza, MD; Francesco Ventura, MD, PhD*

11:30 AM – 1:00 PM

Madison Benton, BS; Erica Curry, MD*

11:30 AM – 1:00 PM

Elyssa Glassheim, MD; Lauren Dvorscak, MD; Sarah Lathrop, DVM, PhD; Garon Bodor, MS; Neil Greene, PhD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Isabella Caristo, MD; Rosario Barranco, MD, PhD; Paolo Nozza, MD; Francesco Ventura, MD, PhD*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Simona Nicoli, DM; Antonio Straface, MD; Laura Ambrosi; Biagio Solarino

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Aniello Maiese, PhD; Fabio Stefanelli, PhD

11:30 AM – 1:00 PM

Naomi Iacoponi, MD; Marco Di Paolo, MD*

11:30 AM – 1:00 PM

De Simone Stefania, MD; Maria Antonella Bosco, MD; Giacani Elena, MD;*

*Luigi Cipolloni, MD**

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Maria Elisa Smith, MD; Zabiullah Ali, MD*

11:30 AM – 1:00 PM

Corinne La Spina; Giuseppe Davide Albano; Giuliana Malandrino, MD; Giovanni Cannella; Dario Scaglione, MD; Emiliano Maresi; Stefania Zerbo*

11:30 AM – 1:00 PM

*Kazuhiko Kibayashi, MD**

11:30 AM – 1:00 PM

Giuseppe Davide Albano; Vanessa Milazzo, MD; Mario Spano, MD; Maria Puntarello; Emiliano Maresi; Stefania Zerbo; Antonina Argo*

11:30 AM – 1:00 PM

*Pasquale Ardivino, MD; Alessandro Santurro, MD, PhD**

11:30 AM – 1:00 PM

*Wandamaria Mazzuca; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD**

11:30 AM – 1:00 PM

Federica Ministeri, MD; Federico Privitera, MD; Grazia Giulia Pantè; Cristoforo Pomara, MD*

11:30 AM – 1:00 PM

Mauro Midiri; Giuseppe Davide Albano; Corinne La Spina; Maria Puntarello;*

11:30 AM – 1:00 PM

Giovanni Gurgoglione, MD; Maria Antonella Bosco, MD*; Giuseppe Rinaldi, MD*; Stefania De Simone, MD; Elena Giacani, MD; Luigi Cipolloni, MD*; Francesco Prari, MD, PhD**

11:30 AM – 1:00 PM

Felice Francesco Carabellese, MD

PATHOLOGY/BIOLOGY

Thursday

Poster Session

11:30 AM – 1:00 PM

*Luca Diani, MD**; *Michele Carpinteri, MD*; *Laura Camilla Gasparini, MD*; *Giada Rovito, MD*;

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Domenicantonio Iannello, MD; *Alessio Asmundo, MD*; *Elvira Ventura Spagnolo, MD**

11:30 AM – 1:00 PM

*Maria Antonella Bosco, MD**; *Carpano Francesco, MD*; *Moro Diego, MD*; *Luigi Cipolloni, MD**

11:30 AM – 1:00 PM

Luca Morini, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Roberta Mercuri, MD**; *Filippo Spigno, MD*; *Sara Lo Pinto, MD*; *Francesco Ventura, MD, PhD*

11:30 AM – 1:00 PM

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Massimo Lancia, MD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Carlo Previderè; Luca Tajana, MD; Luca Morini, PhD

11:30 AM – 1:00 PM

Antonello Di Paolo, MD; Silvio Chericoni, PhD; Fabio Stefanelli, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Andrea Benassi, PhD, MS; Gloria Raise; Nicholas Lorusso; Denise Gemmellaro, PhD**

11:30 AM – 1:00 PM

PATHOLOGY/BIOLOGY

Thursday—Session I

Moderator: Michael Graham, MD

9:00 AM – 9:10 AM

9:10 AM – 9:50 AM

9:50 AM – 10:15 AM

10:15 AM – 11:05 AM

11:05 AM – 12:00 PM

12:00 PM – 2:00 PM

2:00 PM – 2:50 PM

2:50 PM – 3:05 PM

3:05 PM – 3:55 PM

*Katherine Maloney, MD**

3:55 PM – 5:00 PM

Thursday—Session II

Moderator: Gregory Schmunk, MD

Co-Moderator: Amir Hamoud, MD

8:30 AM – 8:45 AM

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

9:15 AM – 9:30 AM

PATHOLOGY/BIOLOGY

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

*Jarod Douglas**

10:00 AM – 10:15 AM

Maya Neumann; Wolfgang Grellner, MD*

10:15 AM – 10:30 AM

Moderator: Jolee Suddock, DO

Co-Moderator: Michael Harrell, MD

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

11:00 AM – 11:15 AM

Anita Sammarco, MD; Pierpaolo Di Lorenzo, MD; Maria Pieri; Mariagrazia Marisei, MD; Gaetano Di Donna, MD; Fabio Policino; Emanuele Capasso, MD; Massimo Niola, PhD*

11:15 AM – 11:30 AM

11:30 AM – 11:45 AM

11:45 AM – 12:00 PM

12:00 PM – 1:00 PM

Moderator: Owen Middleton, MD

Co-Moderator: Quinn Demik, MD

1:00 PM – 1:15 PM

Francesca Freni, MS; Yao Chen, MD

1:15 PM – 1:30 PM

*Pete Speth, MD**

PATHOLOGY/BIOLOGY

1:30 PM – 1:45 PM

*Nilesh Keshav Tumram, MBBS, MD**

1:45 PM – 2:00 PM

Deland Weyrauch, MD; Christopher Borck, MD*

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

*Pete Speth, MD**

2:30 PM – 2:45 PM

2:45 PM – 3:00 PM

Gerald Feigin, MD; Priya Banerjee, MD; Gil Sapir, JD, MSc*

3:00 PM – 3:15 PM

Maya Neumann; Wolfgang Grellner, MD*

3:15 PM – 3:30 PM

Moderator: Gregory Schmunk, MD

Co-Moderator: Lorenzo Gitto, MD

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

Francesca Consalvo, MD; Alessandro Santurro, MD, PhD*; Carmen Sementa, MD;*

4:00 PM – 4:15 PM

Christopher Sullivan; Angelina Phillips, MD*

4:15 PM – 4:30 PM

4:30 PM – 4:45 PM

PATHOLOGY/BIOLOGY

4:45 PM – 5:00 PM

5:00 PM – 5:15 PM

5:15 PM – 5:30 PM

Thursday—Session III

Moderator: Robert Johnson, PhD

Co-Moderator: Rhonda Mittenzwei, MD

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

Ingrid Bosman, PhD, MSFS

1:45 PM – 2:00 PM

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

Anthea Lafreniere, MD

2:45 PM – 3:00 PM

PATHOLOGY/BIOLOGY

Friday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Larissa Ybanez, BS, BA; Stacey Murthy, MD*

11:30 AM – 1:00 PM

Sarah Seashols Williams, PhD; Denise Wohlfahrt, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Sangram Sandhu, MSc; Niraj Rai, PhD; Pooran Chand, MDS*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM

*Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Gabriele Napoletano, MD; Fabio Del Duca, MD; Giacomo Visi, MD; Federica Spina, MD;*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Stefano Duma, MD; Federica Mele, MD; Mariagrazia Calvano, MD; Mirko Leonardelli, MD;
Enrica Macorano, MD; Giovanni De Gabriele, MD; Alessandro Cristalli, MD; Francesco Introna*

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

*Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM

Moderator: Lavinia Iancu, PhD

Co-Moderator: Nicolette Ras, BS

8:30 AM – 8:45 AM

Ranjana Mosby, BS

8:45 AM – 9:00 AM

9:00 AM – 9:15 AM

Cochliomyia Macellaria

*Joshua Smith, PhD**

9:15 AM – 9:30 AM

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:30 AM

Moderator: Ian Dadour, PhD

Co-Moderator: Kristi Bugajski, PhD

10:30 AM – 10:45 AM

10:45 AM – 11:00 AM

PATHOLOGY/BIOLOGY

11:00 AM – 11:15 AM

Bethany Mikles, BSc, MS

11:15 AM – 11:30 AM

Noemi Procopio, PhD, MSc; Lavinia Iancu, PhD*; Andrea Bonicelli, PhD, MA*

11:30 AM – 11:45 AM

Andrea Bonicelli, PhD, MA; Noemi Procopio, PhD, MSc*

11:45 AM – 12:00 PM

12:00 PM – 1:00 PM

Moderator: Noemi Procopio, PhD

Co-Moderator: Krystal Hans, PhD

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

Denise Gemmellaro, PhD; Andrea Zaferes, BA*; Gloria Raise*

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

*Alfredo Eugene Walker, MBBS**

PATHOLOGY/BIOLOGY

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

3:15 PM – 3:30 PM

Moderator: Caroline Rowe, PhD

Co-Moderator: Tuyet Tran, DO

3:30 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 4:15 PM

4:15 PM – 4:30 PM

Pia Eugenia Ylenia Petrasso, MD; Gianluca Piras, MD*; Luigi Cipolloni, MD*;*

4:30 PM – 4:45 PM

4:45 PM – 5:00 PM

Sarah Lathrop, DVM, PhD; Lauren Dvorscak, MD

5:00 PM – 5:15 PM

PSYCHIATRY & BEHAVIORAL SCIENCE

Thursday

Poster Session

11:30 AM – 1:00 PM **J1** **WITHDRAWN**

11:30 AM – 1:00 PM

*Aabad Ayoub, MPhil**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM **J4** **WITHDRAWN**

11:30 AM – 1:00 PM **J5** **WITHDRAWN**

11:30 AM – 1:00 PM **J6** **WITHDRAWN**

11:30 AM – 1:00 PM **J7** **WITHDRAWN**

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Moderator: Corina Freitas, MD, BSc, MBA

Co-Moderator: G. David Annas, MD, MPH

9:00 AM – 9:30 AM

9:30 AM – 10:00 AM

10:00 AM – 10:30 AM

10:30 AM – 10:55 AM

10:55 AM – 11:00 AM

11:00 AM – 11:30 AM

PSYCHIATRY & BEHAVIORAL SCIENCE

11:35 AM – 11:50 AM

11:50 AM – 1:00 PM

Moderator: TBD

Co-Moderator: Corina Freitas, MD, BSc, MBA

1:00 PM – 2:00 PM

2:00 PM – 2:30 PM

2:30 PM – 2:55 PM

2:55 PM – 3:45 PM

3:45 PM – 4:00 PM

4:00 PM – 5:00 PM

Friday

Poster Session

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

PSYCHIATRY & BEHAVIORAL SCIENCE

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Moderator: Grace Cheney, MD

Co-Moderator: Michael Hernandez, BS

9:00 AM – 9:30 AM

9:30 AM – 10:00 AM

10:00 AM – 10:15 AM

10:15 AM – 10:45 AM

10:45 AM – 11:45 AM

11:45 AM – 1:00 PM

Moderator: Vivian Shnaidman, MD

1:00 PM – 4:30 PM

*Presenting Author

QUESTIONED DOCUMENTS

Thursday

Poster Session

11:30 AM – 1:00 PM

*Steven N. Bunch, BS**; *Heidi H. Harralson, MA*; *Larry S. Miller, PhD*

11:30 AM – 1:00 PM

*Cami Fuglsby, PhD**; *Christopher P. Saunders, PhD*; *Danica M. Ommen, PhD*;
JoAnn Buscaglia, PhD

11:30 AM – 1:00 PM

11:30 AM – 1:00 PM

Moderator: Linda Mitchell, BS

8:30 AM – 8:50 AM

*Tobin A. Tanaka, BSc**; *Caroline Bernier*; *Sincere Ip, MSc*; *Helen Kolodziejczyk, MSc,FSc*

8:50 AM – 9:10 AM

*Rakesh Meena, MSc**; *Nandini Chitara, MSc*; *Ankita Guleria, MSc*; *Kewal Krishan, PhD*;
Abhik Ghosh, PhD

9:10 AM – 9:30 AM

*Carolyn Bayer-Broring, MFS**

9:30 AM – 9:45 AM

9:45 AM – 10:00 AM

Christopher S. Palenik, MS, PhD

10:00 AM – 10:30 AM

*Sarah C. Kindschuh, PhD**; *Larkin Kennedy, PhD*

10:30 AM – 10:45 AM

Moderator: Linda Mitchell, BS

10:45 AM – 11:05 AM

*Tobin A. Tanaka, BSc**

11:05 AM – 11:25 AM

*Linton Mohammed, PhD**

QUESTIONED DOCUMENTS

11:25 AM – 11:45 AM

*Vishal Sharma, PhD**

11:45 AM – 12:15 PM

Carl R. McClary, MS; Karen J. Nobles, MS; Samiah Ibrahim, BSc, BA*

12:15 PM – 1:15 PM

Moderator: Mark Goff, BA

1:15 PM – 1:30 PM

*Timothy Campbell, BSc**

1:30 PM – 1:45 PM

Anyesha Ray, BS; Danica M. Ommen, PhD*

1:45 PM – 2:15 PM

Alexandra Arabio, BS; Alicia Laura Carriquiry, PhD; Danica M. Ommen, PhD*

2:15 PM – 2:35 PM

2:35 PM – 2:55 PM

Neha Verma, MSc, PhD; Vishal Sharma, PhD; Dinesh K. Sahu, MSc, PhD*

2:55 PM – 3:25 PM

3:25 PM – 3:40 PM

Moderator: Mark Goff, BA

3:40 PM – 4:25 PM

*Zain Bhaloo, MSc, BScH**

4:25 PM – 4:55 PM

4:55 PM – 5:15 PM

*Kevin P. Kulbacki, MSFS**

5:15 PM – 6:00 PM

TOXICOLOGY

Wednesday

Poster Session

7:30 PM – 9:00 PM **L1** **Comparing the Performance of LC-QqQ-MS vs. LC-QTOF-MS for Targeted Analysis of NPS With a Test Mixture of 40 NPS and Metabolites in Whole Blood, Urine, and Oral Fluid**
*Rebecca L. Smith, MS**; *Anthony P. DeCaprio, PhD*

7:30 PM – 9:00 PM

*John L. Krstenansky, PhD, MBA**

7:30 PM – 9:00 PM **L3** **A Rare Case of Fatal Levamisole Toxicity**
*Mark E. Shelly, DO**; *Robert Johnson, PhD*; *Aria McCall, BS*

7:30 PM – 9:00 PM

*Massimiliano Esposito, MD**; *Federica Ministeri, MD*; *Salvatore Rocuzzo, MD*;
Nunziata Barbera, MD; *Fabrizio Vanaria*

7:30 PM – 9:00 PM

*Pietro Zuccarello, PhD**; *Monica Salerno, MD*; *Massimiliano Esposito, MD*;
Francesco Sessa, MS, PhD; *Nunziata Barbera, MD*

7:30 PM – 9:00 PM

*Gianluca Musci, MD**; *Alessandra Petruzzellis, MD*; *Gianluca Gravili, MD*;
Giorgio De Donno, MD; *Stefania Galizia, MD*; *Gianfrancesco Di Nunno, MD*;
Antonio De Donno, MD

7:30 PM – 9:00 PM

Carlo Pietro Campobasso, MD, PhD

7:30 PM – 9:00 PM

*Emily Fenton, MBA, MSFS**; *Kari M. Midthun, PhD*; *Brianna Peterson, PhD*

7:30 PM – 9:00 PM

7:30 PM – 9:00 PM

Jidabha Apiluk, BS; *Sajeel Shah, PhD**; *Nikolas P. Lemos, PhD*

7:30 PM – 9:00 PM

Fentanyl and Fentanyl-Related Compounds

*Jeri D. Roper-Miller, PhD**; *Megan Grabenauer, PhD*; *Nichole D. Bynum, MS*;
Nicolas Richardson, PhD

7:30 PM – 9:00 PM

7:30 PM – 9:00 PM

*Abuzar Kabir, PhD**; *Marcello Locatelli, PhD*; *Kenneth G. Furton, PhD*

TOXICOLOGY

- 7:30 PM – 9:00 PM **L14** **Quantitation of Delta-8-Tetrahydrocannabinol in Postmortem Specimens by the Method of Standard Addition**
*Robert M. Lockwood, PhD**; *Taikeria Adams, BS*; *Curt E. Harper, PhD*
- 7:30 PM – 9:00 PM **L15** **Fabric Phase Sorptive Extraction: A Green Sample Preparation Strategy for Forensic Toxicology**
Abuzar Kabir, PhD; *Kenneth G. Furton, PhD**; *Marcello Locatelli, PhD*
- 7:30 PM – 9:00 PM **L16** **A Comparative Analysis of Accuracy, Precision, and LOD in AAS and TMA for the Quantification of Cadmium in the Blood Samples**
*Jatin Kumar Drall, BTech**; *Ajay Kumar Kataria, MTech*
- 7:30 PM – 9:00 PM **L17** **The Determination of Cadmium in Blood by Voltammetry Using Hanging Mercury Drop Electrode (HMDE)**
*Ashok Kumar Jaiswal, PhD**
- 7:30 PM – 9:00 PM **L18** **Identifying Designer Benzodiazepines in Blood Using Gas Chromatography/Mass Spectrometry**
*Devin Baer**; *Michael T. Truver, PhD*; *Sara C. Brogan, BS*; *Jennifer L. Hoyer, MS*; *Michele Crosby*; *Chris W. Chronister, PhD*
- 7:30 PM – 9:00 PM **L19** **The Impact of Gold Top SST (Gel and Clot) Collection Tubes on Cannabinoid Quantitative Analysis in Blood**
Bridget O’Leary, MS; *Marta Concheiro-Guisan, PhD**
- 7:30 PM – 9:00 PM **L20** **Designer Benzodiazepine ELISA Cross-Reactivity**
*Leonela M. Placencia, BS**; *Nicholas B. Tiscione, MS*
- 7:30 PM – 9:00 PM **L21** **EC-SERS and DART®-TOF/MS for Toxicological Screening**
*Colby E. Ott, PhD**; *Edward Sisco, PhD*
- 7:30 PM – 9:00 PM **L22** **A Validated Method for Quantification of Buprenorphine/Naloxone and Its Primary Metabolites in Clinical Human Breast Milk, Maternal and Infant Plasma Samples Using Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)**
*Munchelou M. Gomonit, BS**; *Krystle McConnell, BA, MPH*; *Lauren M. Jansson, MD*; *Madeleine J. Swortwood, PhD*
- 7:30 PM – 9:00 PM **L23** **An Evaluation and Comparison of the Evidence MultiSTAT to GC/MS for the Detection of Morphine, Codeine, and Thebaine in Urine and Oral Fluid**
*Amanda L. Pacana, BS, MSFS**; *Britni Skillman, PhD*; *Madeleine J. Swortwood, PhD*; *Stacie Terry, MSFS*
- 7:30 PM – 9:00 PM **L24** **An Investigation of Phthalate Levels in Teething Devices for Children in the United Arab Emirates**
*Vipula Aravamudhan**; *Nrashant Singh*; *Deveshi Kachroo*; *Noora Najeeb*
- 7:30 PM – 9:00 PM **L25** **The Validation of an LC/QqQ/MS Method for the Detection of Single Doses of Drugs in Hair**
*Kaylyn Ann Keith**; *Anthony P. DeCaprio, PhD*
- 7:30 PM – 9:00 PM **L26** **The Development of a Reference Material for Chemical Hair Analysis**
*Kaitlyn Bonilla, BS**; *Charlene Harris, BS*; *Chloe Phillips*; *Matthieu Baudelet, PhD*
- 7:30 PM – 9:00 PM **L27** **Streamlining Blood LC/MS/MS Workflows to Meet ASB/OSAC Recommendations for Medicolegal Death and Impaired Driving Cases**
*Jason Truskowski, BS**

TOXICOLOGY

- 7:30 PM – 9:00 PM **L28** **Streamlining Urine LC/MS/MS Workflows to Meet ASB/OSAC Recommendations for Drug-Facilitated Crime Investigations**
*Jason Truskowski, BS**
- 7:30 PM – 9:00 PM **L29** **“Hang on a Minute”: Developing Improved Separation Methodologies for Weakly Retained Polar Molecules in LC/MS/MS**
Briana Rose Alarcon, BS; William H. Campbell, PhD*
- 7:30 PM – 9:00 PM **L30** **The Separation of Fentanyl Analogs and Fentanyl Analog Isomers by LC/MS/MS**
Erika L. Sitch, MPS; Briana Rose Alarcon, BS*; William H. Campbell, PhD*
- 7:30 PM – 9:00 PM **L31** **What Are You Smoking? A Derivatization to Improve the Analysis of Tetrahydrocannabinol (THC) Isomers Via LC/MS/MS**
Olesia Leonna Headen; William H. Campbell, PhD*
- 7:30 PM – 9:00 PM **L32** **The Quantitation of 106 Drugs in Urine Using a High-Throughput, Seven-Minute Method by High Resolution Mass Spectrometry and Triple Quadrupole**
Courtney Patterson; Mark Tracy; Kristine van Natta; Stephanie Samra; Kerry Hassell*
- 7:30 PM – 9:00 PM **L33** **Urine Immunoassay Cross-Reactivity of Various OTC and Prescription Drugs**
Fatima Chavez-Esparza, BS; Courtney Sellens, MS, BS; Qiyang Zhang, PhD; Melissa M. Bailey, MSFS, PhD; Timothy P. Rohrig, PhD; Connor DeJesus, MS, BS*
- 7:30 PM – 9:00 PM **L34** **Don’t Huff Before You Blow!**
Genevieve Huppe, MSc; Julie Motard, MSc; Cynthia Roy, MSc; Anthony Gelinas, BSc; Pascal Mireault, MSc*
- 7:30 PM – 9:00 PM **L35** **Evaluating Drug Positivity Trends in Fatally Injured Drivers, Passengers, and Pedestrians in Connecticut**
Amanda L.A. Mohr, MS; Grace Cieri, BS; James R. Gill, MD; Barry K. Logan, PhD*
- 7:30 PM – 9:00 PM **L36** **Drivers Under the Influence of Alcohol and Drugs: A Six-Year (2017–2022) Retrospective Analysis in a Southern Italian Region**
Anna Carfora, PhD; Alessandro Feola, MD, PhD; Raffaella Petrella, PhD; Giusy Ambrosio, MD; Ilaria Fracassi, MD; Paolo Palermo, MD; Martina Zampone, MD; Carlo Pietro Campobasso, MD, PhD*
- 7:30 PM – 9:00 PM **L37** **Pediatric Poisoning: A Plan of Action for Early Diagnosis and Treatment**
*Pascale Basilicata; Mariagrazia Marisei, MD; Rossella Guadagni; Angela Simonelli; Gaetano Di Donna, MD; Anita Sammarco, MD; Massimo Niola, PhD; Maria Pieri**
- 7:30 PM – 9:00 PM **L38** **The Effects of Ethanol on GABA Catabolism Via GABA-Transaminase**
Mary Corrigan; Robert H. Powers, PhD*
- 7:30 PM – 9:00 PM **L39** **Crotalus Snake Venoms of North and South America: Their Symptoms, Treatments, and Potential Medical Applications**
Victoria Hudson, MSc; Sajeel Shah, PhD, MS; Nikolas P. Lemos, PhD*
- 7:30 PM – 9:00 PM **L40** **A Review of Popular Illegal Performance-Enhancing Drugs in Sports and Gyms**
Rami Abbas, BS; Sajeel Shah, PhD, MS; Nikolas P. Lemos, PhD*
- 7:30 PM – 9:00 PM **L41** **An Evaluation of Long-Term Health Effects From Acute Exposure to Toxic Chemicals**
*Theresa Pennington**

TOXICOLOGY

-
- 7:30 PM – 9:00 PM **L42** **Future Strategies in Drug Trend Monitoring and Harm Reduction**
*Agnieszka Urban, BSc**; *Geraldine Dowling, PhD, MSc*; *Sajeel Shah, PhD, MS*;
Nikolas P. Lemos, PhD
- 7:30 PM – 9:00 PM **L43** **A Review of Factors Affecting the Interpretability of Postmortem Cannabinoid Concentrations and Their Limitations**
Sherri L. Kacinko, PhD; *Daniel S. Isenschmid, PhD*; *Barry K. Logan, PhD**

Thursday

Annual Lectureship in Toxicology

Moderator: Dayong Lee, PhD

Co-Moderator: Erin Karschner, PhD

- 8:30 AM – 9:45 AM **L45** **Annual Lectureship in Toxicology**
Brandon Jeffery, MS
- 9:45 AM – 10:15 AM **L46** **An Update on Standards Development Activities in Forensic Toxicology**
*Marc A. LeBeau, PhD**
- 10:15 AM – 10:30 AM **BREAK**

Novel Psychoactive Substances

Moderator: Svante Vikingsson, PhD

Co-Moderator: Elisa Shoff, MS

- 10:30 AM – 10:45 AM **L47** **Quantitation of Hexahydrocannabinol and Metabolites in Blood From Recreational Users**
*Robert Kronstrand, PhD**; *Markus Roman*; *Henrik Gréen*; *Michael T. Truver, PhD*
- 10:45 AM – 11:00 AM **L48** **Determining Delta 9-THC Acetate Analog Metabolites Using Human Liver Microsomes to Determine the Structure and Rate of Metabolism**
*Natalie Ortiz, BS**; *Justin L. Poklis, BS*; *Kimberly Karin, MS*; *Grace R.R. Williams, PhD*;
Carl E. Wolf, PhD
- 11:00 AM – 11:15 AM **L49** **The Metabolism of THC-O-Acetate (THCO)—An Emerging Drug Threat**
*Ya-Chih (Jessica) Cheng, MS**; *Charles R. Perkins, MS, BS*; *Sarah Kerrigan, PhD*
- 11:15 AM – 11:30 AM **L50** **A Quantitative Confirmation Assay of New and Emerging Synthetic Cannabinoids by LC/QqQ/MS**
*Haley Lynn Bibey, BS**; *Sara Walton, MS*; *Heather L. Harris, MFS, JD*; *Alex J. Krotulski, PhD*
- 11:30 AM – 11:45 AM **L51** **A Case Series Involving the Synthetic Cathinone Alpha-PiHP in Postmortem Forensic Investigations**
*Sara Walton, MS**; *Donna M. Papsun, MS*; *Michael E. Lamb, MSFS, BS*; *Alex J. Krotulski, PhD*;
Simon Elliott, BSc, PhD; *Kerry Taylor, BSc*; *Michael T. Truver, PhD*; *Barry K. Logan, PhD*
- 11:45 AM – 1:00 PM **BREAK**

TOXICOLOGY

Moderator: Robert Johnson, PhD

Co-Moderator: Rhonda Mittenzwei, MD

1:00 PM – 1:15 PM

1:15 PM – 1:30 PM

1:30 PM – 1:45 PM

1:45 PM – 2:00 PM

Jeroen Roosendaal, PhD; Kristof Maudens, PhD

2:00 PM – 2:15 PM

2:15 PM – 2:30 PM

2:30 PM – 2:45 PM

Anthea Lafreniere, MD

2:45 PM – 3:00 PM

3:00 PM – 3:15 PM

Moderator: Marilyn Huestis, PhD

Co-Moderator: Curt Harper, PhD

3:15 PM – 3:30 PM

3:30 PM – 3:45 PM

TOXICOLOGY

3:45 PM – 4:00 PM	L58	The Detection of Cannabinoids in Exhaled Breath Condensate After Cannabis Use <i>Jennifer L. Berry, PhD*</i> ; <i>Kavita M. Jeerage, PhD</i> ; <i>Cheryle N. Beuning, PhD</i> ; <i>Ashley Brooks-Russell, PhD</i> ; <i>Tara Lovestead, PhD</i>
4:00 PM – 4:15 PM	L59	Cocaine and Benzoyllecgonine in Blood and Oral Fluid of DUID Cases (2018–2022) <i>Michael L. Weaver*</i> ; <i>Clarissa Lawen</i> ; <i>Christopher Bartle</i> ; <i>Curt E. Harper, PhD</i>
4:15 PM – 4:30 PM	L60	Mile High: A Five-Year Review of Fentanyl Trends in Colorado Impaired Driving Cases <i>Stephanie Olofson, BS, MS*</i>
4:30 PM – 4:45 PM	L61	Impaired Driving Cases With Bromazolam <i>Nicholas B. Tiscione, MS*</i> ; <i>Edward Zumaeta</i>

Friday

General Forensic Toxicology

Moderator: Chris Heartsill

Co-Moderator: Aaron Shapiro, PhD

8:30 AM – 8:45 AM	L62	An Outlook on Fentanyl Adulteration: Polydrug Circumstances, Trends, and Tomorrow's Forecast <i>Alex J. Krotulski, PhD*</i> ; <i>Sara Walton, MS</i> ; <i>Donna M. Papsun, MS</i> ; <i>Joshua S. DeBord, PhD</i> ; <i>Barry K. Logan, PhD</i>
8:45 AM – 9:00 AM	L63	Controlled Oral Kratom Leaf Administration to Healthy Humans: Abuse Potential- and Withdrawal-Related Effects, Adverse Events, and Mitragynine and 7-Hydroxy-Mitragynine Plasma Pharmacokinetics <i>Marilyn A. Huestis, MS, PhD*</i> ; <i>John Bothmer, PhD</i> ; <i>Thomas Hudzik, MS, PhD</i> ; <i>Jack E. Henningfield, BA, PhD</i> ; <i>Ramsey Atallah, BA</i>
9:00 AM – 9:15 AM	L64	The Extraction's Always Greener on the Other Side <i>Madeleine E. Wood, MS*</i> ; <i>Joshua Z. Seither, PhD</i> ; <i>John J. Kristofic, BS</i> ; <i>Erin Karschner, PhD</i> ; <i>Jeffrey P. Walterscheid, PhD</i>
9:15 AM – 9:30 AM	L65	Homoamphetamine: A Cautionary Tale <i>Laura Friederich, BS*</i> ; <i>Sandra Bishop-Freeman, PhD</i>
9:30 AM – 9:45 AM	L66	The Bath Salts State: A Comprehensive Review of Substituted Cathinones in Miami From 2011 to 2023 <i>Elisa N. Shoff, MS*</i> ; <i>Zaney E. Mary, BS</i> ; <i>Diane Moore, PhD</i>
9:45 AM – 10:00 AM	L67	The Search for the K-Hole: A Six-Year Study of Ketamine in Postmortem Cases From the Miami-Dade County Medical Examiner Department, 2018–2023 <i>Jennifer Gonyea, BS*</i> ; <i>Diane Moore, PhD</i>
10:00 AM – 10:15 AM	L68	Segmented Workflows and the Confrontation Clause: Achieving Congruence Between Constitutional Guarantees, Laboratory Productivity, and Toxicological Expertise <i>M.J. Menendez, JD*</i> ; <i>Barry K. Logan, PhD</i> ; <i>Daniel T. Anderson, MS</i> ; <i>Donna M. Papsun, MS</i>
10:15 AM – 10:30 AM		BREAK

TOXICOLOGY

Alternative Matrices

Moderator: Marta Concheiro-Guisan, PhD

Co-Moderator: F. Wayne Lewallen, BS

- 10:30 AM – 10:45 AM **L69** **A Quantitative Analysis of Cannabis Exposure Biomarkers in Exhaled Breath Condensate and Oral Fluid**
Meena Swaminathan, MSFS; Anthony P. DeCaprio, PhD*
- 10:45 AM – 11:00 AM **L70** **The Use of Hair Analysis as a Potential Predictor of Tolerance in Decedents With High Fentanyl Concentrations in Fentanyl-Related Deaths: Preliminary Results**
Nicola Pigaiani, MD; Marco Ballotari, PhD, MA; Brandi C. McCleskey, MD; Francesco Taus, PhD; Federica Bortolotti, MD, PhD; Rossella Gottardo, PhD; Gregory G. Davis, MD, MSPH; Karen S. Scott, PhD*
- 11:00 AM – 11:15 AM **L71** **A Quantitative Assessment of Five Hair Drug Testing Laboratories With a Commercial Hair Reference Material**
Edwin Dale Hart, BS; Svante Vikingsson, PhD; Ruth E. Winecker, PhD; Eugene D. Hayes, PhD; Lisa S. Davis, MS; Ron Flegel, MS*
- 11:15 PM – 11:30 AM **L72** **The Gonadotoxic Effects of Tobacco Smoking on Human Seminal Fluid**
Nadeem-Ul-Hassan Khan; Allah Rakha*; Rahat Abdul Rehman*; Shahid Nazir, PhD; Tahmina Rehman*
- 11:30 AM – 11:45 AM **L73** **The Identification of the New Synthetic Opioid N-Piperidinyl Etonitazene (Etonitazepipne) in Postmortem Alternative Matrices**
Erika Buratti, PhD; Gianmario Mietti, PhD; Alice Cerioni, PhD; Marta Cippitelli, PhD; Rino Frolidi, MSc; Mariano Cingolani, MD, MSc; Roberto Scendonì, PhD*
- 11:45 AM – 1:00 PM **BREAK**

23rd Annual Postmortem Pediatric Forensic Toxicology Session

Moderator: Robert Middleburg, PhD

Co-Moderator: Nikolas P. Lemos, PhD

- 1:00 PM – 3:00 PM **L74** **Postmortem Pediatric Forensic Toxicology**
Robert A. Middleberg, PhD; Nikolas P. Lemos, PhD*; Katherine Kenerson, MD*; Andrew Baker, MD*; Sterling J. McLaren, MD*; Diane Moore, PhD*; Zaney E. Mary, BS**

LAST WORD SOCIETY

Thursday

Moderator: Kenneth Melson, JD

Co-Moderator: Carla Noziglia, MS

- | | | |
|---------------------|------------|--|
| 8:00 PM – 8:20 PM | LW1 | A Forensic Analysis of the 1960 Rome Olympics' 100-Meter Dash Final
<i>John David Bullock, MD, MPH*</i> ; <i>Gerald H. Ashworth, MBA</i> ; <i>David Guyton, MD</i> |
| 8:20 PM – 8:40 PM | LW2 | The Strange Deaths of American Presidents
<i>Lawrence Quarino, PhD*</i> |
| 8:40 PM – 9:00 PM | LW3 | (De)coronation Jewels: The “Affair of the Diamond Necklace” Between Historical and Forensic Implications
<i>Matteo Borrini, PhD, MS*</i> |
| 9:00 PM – 9:20 PM | LW4 | Man vs. “Gator” – The Forensic Story • The “Media” Story
<i>Walter F. Zoller, DMD*</i> |
| 9:20 PM – 9:40 PM | LW5 | The First Full-Service Criminalistics Laboratory: Scientific Detection Laboratory, Chicago, IL
<i>Peter Striupaitis, MS*</i> |
| 9:40 PM – 10:00 PM | LW6 | Will Hatred Never Die? The Murder of Bishop William Alexander Guerry
<i>J.C.U. Downs, MD*</i> |
| 10:00 PM – 10:20 PM | LW7 | The Unknown Child on the Titanic: Identified! Identified?
<i>Colleen M. Fitzpatrick, PhD*</i> |

YFSF POSTER SESSION

Wednesday

Digital & Multimedia Sciences

- 11:30 AM – 1:00 PM **Y1** **The Forensic Acquisition and Inspection of Aftermarket Vehicle Infotainment Systems**
*Jett Brandes, MD**; Andrew Clark; Robert Boggs, APS
- 11:30 AM – 1:00 PM **Y2** **The Impact of Zoom on Smart Phone Camera Identification**
*Gavin Norton**; Stephanie Reinders, PhD
- 11:30 AM – 1:00 PM **Y3** **Known Hash Filtering: An Efficient Way to Eliminate Irrelevant Files and Show Files of Interest in Digital Examinations**
*Jessica A. Smith, BS**; Lyndsay Haak, MS; Timothy G. Suggs, BS; James Trevillian, BS; Josh Brunty, ScD
- 11:30 AM – 1:00 PM **Y4** **Producing Datasets: Capturing Images on Multi-Camera Smart Phones for Source Camera Identification**
*Megan McGuire**; Stephanie Reinders, PhD

Toxicology

- 11:30 AM – 1:00 PM **Y5** **The Quantification of Alcohols and Acetaldehyde in Hand Sanitizers Using Headspace/ Gas Chromatography/Mass Spectrometry**
*Chessa To, BS**; Jacob A. Theruvathu
- 11:30 AM – 1:00 PM **Y6** **The Development and Validation of a Biotage® Extrahera™ Automated Extraction Method of Opioids and Their Metabolites in Human Urine Using LC/MS/MS**
*Jessica M. Braeunle, BS**; Marianne Staretz, PhD; Nadine M. Koenig; Dean Fritch, PhD; Thomas A. Brettell, MS, PhD
- 11:30 AM – 1:00 PM **Y7** **The Death of an Accused Person in a Court After the Announcement of the Verdict**
*Massinissa Benyagoub**; Mohamed Oualid; Djamil Azzouz; Redouane Benazzouz
- 11:30 AM – 1:00 PM **Y8** **The Use of Novel Psychoactive Substances (NPS) in Italy: A Comprehensive Meta-Analysis**
*Muhammad Usman, PhD, MS**; Donatella Nardiello; Christian Pallante; Donatella Curtotti; Maurizio Quinto
- 11:30 AM – 1:00 PM **Y9** **Monitoring the New England Drug Supply Through Novel Drug Checking Methods**
*Max T. Denn, MS**; Joshua S. DeBord, PhD; Alexis D. Quinter, MS; Barry K. Logan, PhD; Alex J. Krotulski, PhD
- 11:30 AM – 1:00 PM **Y10** **An Evaluation of Postmortem Redistribution of Δ^9 -Tetrahydrocannabinol (THC) and 11-Nor-9-Carboxy-THC (THC-COOH)**
*Isabelle Chevrier, BSc**; Betty Chow, MSc; Brent Cahill, MSc; James Watterson, PhD
- 11:30 AM – 1:00 PM **Y11** **Chemiluminescent Detection Limitations of Cannabinoids in Edibles and Urine Samples**
*Cristina Elisabeth Lemus**
- 11:30 AM – 1:00 PM **Y12** **Method Development for a Quantitative Panel of Psychoactive Adulterants in Biological Matrices using LC/MS/MS**
*Shayna R. Kasher, BS**

YFSF POSTER SESSION

Thursday

Criminalistics

- 11:30 AM – 1:00 PM **Y13** **Body Fluid Identification From Mixed Samples and Male DNA Confirmation Utilizing SERATEC® PSA and PMB Tests**
*Scarlet Tabitha Neilson, BS**; *Lindsay Loughner Kotchey, MS*; *Mirna Ghemrawi, PhD, MSFS*;
M. Gabriela Roca, MSc, PhD; *Leah Nangeroni, BS*
- 11:30 AM – 1:00 PM **Y14** **Exploring the Performance of an Initial Set of DIP-STR Markers for Biogeographic Ancestry Prediction in United States Populations**
*Lauren Hoopes, BS**; *Diana Hall, MA*; *Fabio Oldoni, MS*
- 11:30 AM – 1:00 PM **Y15** **An Internal Validation of the Janovsky Color Test and Testing the Platinum Chloride Microcrystalline Method for Benzodiazepines**
*Allison M. Swigart, BS**; *Lauren L. Richards-Waugh, PhD*; *Kathleen Schell*;
Rebecca Barlag, PhD, MS; *Lyndsay B. Cone, MS, BS*
- 11:30 AM – 1:00 PM **Y16** **The Use of Leaf Spray PSI-MS for the Detection of Kratom (*Mitragyna Speciosa*) Leaf**
*Macenzie Hope Powell, MS, BA**; *Michael Van Stipdonk, BA, PhD*; *Stephanie J. Wetzel, PhD*;
Theodore A. Corcovilos, PhD; *Hannah Zimmerman-Federle, MS*
- 11:30 AM – 1:00 PM **Y17** **The Effects of Fingerprint Development Techniques on Forensic Cartridge Case Identification**
*Sasha L. Valentino, BA**; *Lyndsie N. Ferrara, PhD*; *Missy Meredith*; *Sarah Varhola, MS*;
Stephanie J. Wetzel, PhD
- 11:30 AM – 1:00 PM **Y18** **The Impact of Age on Strength and Fracture Patterns of the Human Hyoid Bone**
*Olivia DePergola, BA**; *Pamela Marshall, PhD*; *John A. Viator, PhD*; *Suvendra Vijayan, BDS, MS*;
Jennifer L. Hammers, DO
- 11:30 AM – 1:00 PM **Y19** **Surveillance Efforts to Track Drug Market Changes in Philadelphia, Pennsylvania**
*Alexis D. Quinter, MS**; *Joshua S. DeBord, PhD*; *Max T. Denn, MS*; *Barry K. Logan, PhD*;
Alex J. Krotulski, PhD
- 11:30 AM – 1:00 PM **Y20** **The Detection of Low Concentration Ignitable Liquid Residues From Fire Debris Using Gas Chromatography/Mass Spectrometry and an Ignitable Liquid Detection Canine**
*Abigail V. Burke, BA**; *Nancy A. Love, BS*; *Matthew Regentin, MS*; *Stephanie J. Wetzel, PhD*
- 11:30 AM – 1:00 PM **Y21** **An Analysis of Drug Content Distribution on Paper Using Both Soak and Spray Methods by Gas Chromatography/Mass Spectrometry (GC/MS)**
*Aizlynn M. Michel, BA**; *Hannah J. Spitzer, MS*; *Ashley N. Ebert, PhD, BS*;
Stephanie J. Wetzel, PhD
- 11:30 AM – 1:00 PM **Y22** **Examining the Effects of Thermal Stress on the Structure and Downstream DNA Analysis of Human Teeth**
*Michael Allie Brivchik, BA**; *Pamela Marshall, PhD*; *Jennifer L. Hammers, DO*;
Rhonda K.K. Roby, PhD, MPH; *Lisa R. Ludvico, PhD*; *Angie Ambers, PhD*
- 11:30 AM – 1:00 PM **Y23** **An Analysis of the Transfer of Drugs to the Envelope in Mail Over Time and Varying Conditions**
*Madison Ann Eidemueller, BS**; *Erica Maney, MSc*; *Christopher Merrill, BA, MS*;
Stephanie J. Wetzel, PhD

YFSF POSTER SESSION

- 11:30 AM – 1:00 PM **Y24** **Investigation and Detection Methods for Digital and Penile Penetration With No Ejaculation**
*Brianna Gregory, BS**; *Janine M. Kishbaugh, MS*; *Lawrence Quarino, PhD*; *Amrita Lal-Paterson*
- 11:30 AM – 1:00 PM **Y25** **Identifying the Presence of Semen Through the Detection of Fructose**
*Taylor M. McClure, BS**; *Emily Chadwick, MS*; *Pamela Marshall, PhD*;
Michael I. Jensen-Seaman, PhD
- 11:30 AM – 1:00 PM **Y26** **Addressing Sexual Assault in Pakistan: Insights From an Analysis of Female Survivors at Lahore General Hospital**
*Muhammad Ahmad Faraz, MBBS**
- 11:30 AM – 1:00 PM **Y27** **A Gunshot Residue Analysis: The Development of a Combined Procedure for the Detection of Inorganic Elements and Organic Compounds in Traditional and Clean Range Ammunitions Using Spectroscopic Methods**
*Zaire Elijah Fabian, BS**
- 11:30 AM – 1:00 PM **Y28** **The Recovery of Human DNA in an Aqueous Environment Using Novel Technology**
*Halle E. Saf, BS**; *Pamela Marshall, PhD*; *Lisa R. Ludvico, PhD*; *Samantha Border*
- 11:30 AM – 1:00 PM **Y29** **The Optimization of DNA Extraction Methods From Alternative Reference Materials**
*Sophie S. Lee, BS**; *Leah Nangeroni, BS*; *Lindsay Loughner Kotchey, MS*;
Mirna Ghemrawi, PhD, MSFS
- 11:30 AM – 1:00 PM **Y30** **Assessing the Impact Dynamics of Less Lethal Bean Bag Ammunition**
*Brook Fontaine**
- 11:30 AM – 1:00 PM **Y31** **A Comprehensive Examination of STR and Y-STR Profiling in Samples With Limited or Negligible DNA Quantities**
*Chih-Wen Su**
- 11:30 AM – 1:00 PM **Y32** **A Landscape Study: Investigating Potential Links Between Adoption and Serial Killers**
*Amanda F. Piccirilli, BA**; *Pamela Marshall, PhD*; *Lyndsie N. Ferrara, PhD*;
Colleen M. Fitzpatrick, PhD
- 11:30 AM – 1:00 PM **Y33** **The Recovery of Nuclear DNA From Skeletal Remains Decomposed in Freshwater**
*Zoe L. Sikon, BS**; *Ashley G. Morgan, PhD*

Forensic Nursing Science

- 11:30 AM – 1:00 PM **Y34** **Examining the Presence of Foreign DNA on Neck Swabs**
*Alexa M. Gonzalez Morales**; *Lyndsie N. Ferrara, PhD*; *Lisa R. Ludvico, PhD*

Odontology

- 11:30 AM – 1:00 PM **Y35** **Allied Dental Professionals' Identification Accuracy of Burned Teeth**
*Brenda Tallon Bradshaw, BSDH, MS**; *Marsha A. Voelker, MD*; *Samantha Vest, MS*;
Sinjini Sikdar, PhD

YFSF POSTER SESSION

Psychiatry & Behavioral Science

- 11:30 AM – 1:00 PM **Y36** **Pursuit of Justice: Mapping the Future Landscape of Forensic Psychiatry**
*Bellanirys Acosta Arias, MD**; *Alexandra T. Luna, BS*; *Kishan Shah, MD*
- 11:30 AM – 1:00 PM **Y37** **The Makings of a High-Profile Case: How Media Bias Impacts Forensic Investigations in Missing Person Cases**
*Jennifer Fertel, BA**; *Pamela Marshall, PhD*; *Lyndsie N. Ferrara, PhD*; *Charlene E. Shunick, MS*
- 11:30 AM – 1:00 PM **Y38** **Using an Indirect Personality Assessment to Determine the Psychopathy of Timothy McVeigh**
*Mackenzie Miller**; *John Cencich*; *Lyndsie N. Ferrara, PhD*; *Pamela Marshall, PhD*
- 11:30 AM – 1:00 PM **Y39** **Traumatic Brain Injury and Criminal Behavior**
*Bellanirys Acosta Arias, MD**
- 11:30 AM – 1:00 PM **Y40** **Determining the Viability of Breathwork and Meditation as Intervention Techniques for Stress in the Forensic Science Community**
*Prateek Shetty, BS**; *Keisha Jones*

Questioned Documents

- 11:30 AM – 1:00 PM **Y41** **The Extraction and Subsequent Analysis of Gel Pen Ink**
*Elizabeth M. Knittle, BA**; *Stephanie J. Wetzel, PhD*; *Lyndsie N. Ferrara, PhD*;
Sean M. Fischer, PhD

Friday

Anthropology

- 11:30 AM – 1:00 PM **Y42** **The Ethical Considerations of Teaching Skeletons in West Virginia**
*Kristy Henson, MS**; *Jay Bow*
- 11:30 AM – 1:00 PM **Y43** **Restoring Demographic Information of Antique Teaching Skeletons at Fairmont State University**
*Jay Bow**; *Kristy Henson, MS*
- 11:30 AM – 1:00 PM **Y44** **Injury Recidivism as Embodied Evidence of Structural Violence: A Trauma Analysis Examining Fracture Location, Severity, and Occurrence in a New Mexico Forensic CT Sample**
*Emily Romdenne, BS**; *Allysha P. Winburn, PhD*
- 11:30 AM – 1:00 PM **Y45** **An Evaluation of Calcium Removal During Demineralization of Bone for Stable Isotope Analysis of Collagen: A Determination of Optimal Treatment Time**
*Julianne J. Sarancho, MS**
- 11:30 AM – 1:00 PM **Y46** **Evaluating the Effectiveness of Quantitative Skeletal Age Estimation Methods Compared to Traditional Qualitative Methods**
*Ruizhuo Zhang**; *Krista E. Bennett, MA*
- 11:30 AM – 1:00 PM **Y47** **“Known Only to God”: Rediscovering a Historic Freed Slave Cemetery Through the Use of Fluxgate Gradiometry and Its Application to Forensic Science**
*Hannah E. Matulek, MS, BA**; *Savannah Sass, MS**

YFSF POSTER SESSION

Engineering & Applied Sciences

11:30 AM – 1:00 PM **Y48** **A Digital Microfluidic Approach to Processing Forensic Samples**
*Leticia Bodo, MSc**; *Mohamed Elsayed, MSc*; *Jonathan S. Millman, BSc, PhD*;
Aaron Wheeler, PhD

General

11:30 AM – 1:00 PM **Y49** **A Call for Community: Working Toward Humanitarian Solutions to Address Inadequate Indigenous Death Investigations in North America**
*Steff King, MA**; *Gail S. Anderson, PhD*

11:30 AM – 1:00 PM **Y50** **A Probabilistic Genotyping Analysis of Trace DNA and Transfer Evidence**
*Charis Ann Hickey, BS**; *Kelly J. Beatty, MSFS*; *Amy K. Smith, MS*; *Eric Miller, MS*

11:30 AM – 1:00 PM **Y51** **A Semi-Automatic Tool for Footwear Impression Alignment**
*Hana Lee, BS**; *Alicia Laura Carriquiry, PhD*

11:30 AM – 1:00 PM **Y52** **An Interdisciplinary Approach for the Identification of Antique Skeletal Teaching Specimens: DNA Extraction, Forensic Bone Standards, and X-Ray Analysis**
*Cynthia Nichols**

11:30 AM – 1:00 PM **Y53** **Trend Identification in X-Ray Diffraction Peaks of Historic Cartridge Cases From Fort Ord, California**
*Sarina Regis**; *Katelyn K. Huie**; *Madison R. Loewen**; *McKenzie Floyd, MS*

11:30 AM – 1:00 PM **Y54** **A Qualitative Analysis of Xylazine, Nitazenes, and Common Opioids/Analogues by Liquid Chromatography/Tandem Mass Spectroscopy (LC/MS/MS) Following Collection With the M-Vac® Wet-Vacuum System**
*Madeline I. L. Robinson, BS**; *Lauren L. Richards-Waugh, PhD*; *Catherine Rushton, MSFS, EdD*

11:30 AM – 1:00 PM **Y55** **Can the Use of Sharpies® in Forensic Analysis Be a Source of DNA Transfer and Contamination When Examining Difference Fabric Types?**
*Haley Elizabeth Murphy, BS**; *Pamela Marshall, PhD*

Pathology/Biology

11:30 AM – 1:00 PM **Y56** **The Validation of a Manual Selective Degradation Method of Differential Extraction**
*Katelyn Peyton, MS**; *Kelly J. Beatty, MSFS*; *Amy K. Smith, MS*

11:30 AM – 1:00 PM **Y57** **Getting Down and Dirty: Analyzing Changes in Soil Microbiota During Three Stages of Mouse Decomposition**
*Madeline Robinson**; *Emily Nowicki, PhD, BS*; *Samantha J. Sawyer, PhD, BS*

11:30 AM – 1:00 PM **Y58** **A Commotio Cordis Case After a Fall From Height**
Hakan Isik; *Ilkay Kalkanli**; *Gözde Şirin*; *Ahmet Depreli, MD*; *Selçuk Çetin*

11:30 AM – 1:00 PM **Y59** **Comparing 3D Photogrammetry Models Created Using Either Routinely Acquired Autopsy Photographs or Those Taken Specifically for Photogrammetry**
*Malgorzata Pietrzak**; *Anja Petaros*; *Anders Persson, MD, PhD*

YFSF POSTER SESSION

- 11:30 AM – 1:00 PM **Y60** **Fun Run the Bowel: Two Cases of Fatal Gastrointestinal Hemorrhage From Duodenal Ulcers**
*Jessica Schmitt, MD**; *Neil G. Haycocks, MD, PhD*
- 11:30 AM – 1:00 PM **Y61** **Impacts of Desiccants on DNA Quantity and Quality in Sexual Assault Kits Over a One-Year Period**
*Catherine F. Hull, BA**; *Randy Nagy, BS*; *Dana Voris, MS*; *Lisa R. Ludvico, PhD*;
Pamela Marshall, MFS
- 11:30 AM – 1:00 PM **Y62** **The Identification of Biomarkers Associated With Prolonged Starvation in Cat (*Felis Catus*) Bones**
*Annagrace J. Radocaj, BS**; *Lisa R. Ludvico, PhD*; *Becky Morrow, DVM, MS*
- 11:30 AM – 1:00 PM **Y63** **A Low-Cost Microfluidic Biochip Integrated With LAMP for the Rapid Detection of *Streptococcus Pneumoniae* to Aid in Forensic Pathology**
*Angel Gabriel Gutierrez Ruiz**
- 11:30 AM – 1:00 PM **Y64** **An Autopsy Case of an Unusual Association Between the Chiari Network and the Patent Foramen Ovale: An Anatomical Variation or a Risk Factor ? A Case Report**
*Hind Abouzahir, MD, PhD**



BRING YOUR OWN SLIDES (PowerPoint®) BYOS.ppt

Wednesday Evening: 8:00 p.m. - 10:00 p.m.

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 2024 AAFS Annual Conference in Denver, CO:

- 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 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 at BYOS.ppt.
- 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 20, 2024. 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: _____

Place of Employment: _____

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 #: _____

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: _____