

69TH ANNUAL SCIENTIFIC MEETING

OUR FUTURE REFLECTS OUR PAST:

# THE EVOLUTION OF FORENSIC SCIENCE



1948

## NEW ORLEANS, LA

FEBRUARY 13-18, 2017

ADVANCE PROGRAM





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# American Academy of Forensic Sciences

410 North 21st Street  
Colorado Springs, Colorado 80904  
Phone: (719) 636-1100  
Fax: (719) 636-1993  
Email: [info@aafs.org](mailto:info@aafs.org)  
Website: [www.aafs.org](http://www.aafs.org)



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New Orleans  
2017

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# REGISTRATION INFORMATION



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The pre-registration deadline is January 18, 2017. Forms must be received by this date to qualify for the pre-registration rate and to register for Special Functions. Registration forms received after January 18, 2017, will be processed as on-site registrations.

## **Three Ways to Register**

- Register online at [www.aafs.org](http://www.aafs.org) through the AAFS Account Portal.
- Scan & email your registration form (both pages) to [tmccray@aafs.org](mailto:tmccray@aafs.org).
- Mail your registration form, along with a check, money order, or purchase order to:  
AAFS  
410 North 21st Street  
Colorado Springs, CO 80904  
(Checks must be drawn on a U.S. bank in U.S. funds, made payable to AAFS.)
- Faxed registration forms are not accepted.

## **Registration Confirmation**

- When you register online, you will receive an email confirmation immediately.
- When you email or mail your registration form to AAFS, a confirmation email will be sent once your registration form is processed.
- Bring a copy of your confirmation letter to the registration desk for meeting check-in.

## **Questions**

If you have any questions or need assistance with registration, contact the AAFS Office at (719) 636-1100 or email Tracie McCray ([tmccray@aafs.org](mailto:tmccray@aafs.org)).

The AAFS maintains a list of Frequently Asked Questions (FAQ) on the website:  
[www.aafs.org/meetings/aafs-69th-annual-scientific-meeting-new-orleans-louisiana-2017/](http://www.aafs.org/meetings/aafs-69th-annual-scientific-meeting-new-orleans-louisiana-2017/)



New Orleans  
2017

# REGISTRATION INFORMATION

## PRE-REGISTRATION SAVINGS

The benefits of pre-registration cannot be emphasized enough!

30% savings for AAFS members!

***This is the only chance to register for Special Functions (breakfasts, luncheons, workshops, and special sessions)!***

Your pre-registration form must be received by Wednesday, January 18, 2017.

REGISTRATION FEES*	Pre-Registration Discount Rate	On-Site Registration
1. AAFS Members & Trainee Affiliates, Applicants**	\$295	\$420
2. AAFS Student Affiliates**	\$100	\$125
3. AAFS Retired Fellows	\$ 0	\$ 0
4. Non-Members	\$475	\$545
5. Non-Member Trainees** (Must provide letter from employer verifying trainee status.)	\$295	\$420
6. Non-Member Full-Time Students**	\$125	\$150
7. IAI Members** and AFTE Members**	\$295	\$420
8. Daily Registrants (Wednesday, Thursday, Friday, and/or Saturday admission to scientific sessions only)	\$160/day	\$185/day

\*Includes admittance into AAFS sessions starting with the Tuesday evening Welcoming Reception through the Saturday morning Scientific Sessions (excludes all sessions found in section “SPECIAL FUNCTIONS” of the registration form).

### \*\*Registration Requirement:

**AAFS Applicants** must have a complete application on file by the application deadline.

**AAFS Student Affiliates** must have certified eligibility.

**Non-Member Trainees** must submit a letter from employer verifying trainee status to [tmccray@aafs.org](mailto:tmccray@aafs.org).

**Non-Member Full-Time Students** must submit an official Verification of Enrollment verifying full-time status during February 2017. Not available to those in post graduate internships, residencies, or fellowships.

**IAI and AFTE Members** must provide proof of current membership to [tmccray@aafs.org](mailto:tmccray@aafs.org).

## PRE-REGISTRATION DEADLINE

The **deadline for pre-registration** is January 18, 2017. Registration forms must be **received by** this date. Pre-registration forms received at the AAFS office after January 18, 2017, will be processed as on-site registrations and will cancel all Special Function selections (e.g., Breakfast and Luncheon Seminars, Workshops, and Special Sessions). Don't delay; register today via online, mail, or scan and email your pre-registration form as soon as possible to ensure your full participation and reduced registration fees. ***Faxed registration forms are not accepted.***

## REFUNDS

All requests for refunds must be made in writing via email ([tmccray@aafs.org](mailto:tmccray@aafs.org)) or mail to the AAFS headquarters. Canceled registration fees will be refunded as follows:

Prior to December 1	Full refund less \$25 charge
December 1-31	75% refund
January 1-31	60% refund
February 1-5	50% refund
No refunds after February 5, 2017.	

## ACCOMPANYING SPOUSE REGISTRATION

Accompanying Spouse registration includes a name badge only and is not eligible for Continuing Education credit, Workshop, Special Session registration, or Certificates of Attendance; however, Breakfast Seminar and Luncheon Seminar tickets may be purchased by the pre-registration deadline. Accompanying Spouse registration is only available to those paying the full meeting registration fee (excludes Student registrants, Daily registrants, and Workshop Only registrants). An Accompanying Spouse registration is available for an additional fee (\$50). This reduced fee is intended for spouses, family members, or other traveling companions who are not members of the forensic science or legal community and should not be used for colleagues, interns, or students.





# American Academy of Forensic Sciences • Pre-Registration Form

## 69<sup>th</sup> Annual Scientific Meeting • February 13-18, 2017 • New Orleans, Louisiana

### Pre-Registration Deadline – January 18, 2017

#### Three Ways to Register:

**Register on-line** at [www.aafs.org](http://www.aafs.org)

**Scan & email** your registration form (both pages) to [tmccray@aafs.org](mailto:tmccray@aafs.org)

**Mail your form** with check, money order, or purchase order to:

AAFS  
410 North 21<sup>st</sup> Street  
Colorado Springs, CO 80904

Registration forms must be received by **Wednesday, January 18**, to be eligible to register for the 2017 Special Functions and to qualify for the discounted registration rate.

**On January 19, 2017, the on-site rates become effective and registration for 2017 Special Functions will be voided.**

Registration questions may be directed to Tracie McCray ([tmccray@aafs.org](mailto:tmccray@aafs.org) or 719.636.1100).

**Faxed registration forms are not accepted.**

#### REGISTRANT INFORMATION

Salutation (*Dr/Mr/Ms*): \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_ Highest Degree: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_ ZIP/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

#### BADGE INFORMATION

Full Badge Name: \_\_\_\_\_ Badge Agency/School: \_\_\_\_\_

Badge City: \_\_\_\_\_ Badge State/Province: \_\_\_\_\_ Badge Country: \_\_\_\_\_

#### ADDITIONAL INFORMATION

Email: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Hotel: \_\_\_\_\_ First AAFS Meeting?  Yes  No

Vocational Status:  Professional  Student  Academic  Decision Maker  Purchasing Agent  Other

Attendee Gender:  Male  Female

Would you like to receive pre-meeting exhibitor mailings?  Yes  No

Emergency Contact Name: \_\_\_\_\_ Emergency Contact Phone: \_\_\_\_\_

An “accompanying spouse” registration is available for an additional fee (\$50). This reduced fee is intended for spouses, family members, or other traveling companions who are not members of the forensic science or legal community and may not be used for colleagues, students, or interns. “Accompanying spouse” registration includes a name badge only and is not eligible for Continuing Education credit, Workshop/Special Session Registration, or Certificates of Attendance; however, Breakfast and Luncheon Seminar tickets may be purchased by the Pre-Registration deadline.

“Accompanying spouse” registration is only available to those paying the full meeting registration fee (excludes Student, Daily, and Workshop Only registrants.)

Yes (\$50) Name: \_\_\_\_\_

#### ADA ACCOMMODATIONS



Please list any special dietary requirements: \_\_\_\_\_

Please list ADA accommodation requests: \_\_\_\_\_

*Please note: This ADA Accommodations request refers to meeting/session accommodations (e.g., wheelchair access, assisted listening devices, etc.) and should specify what event(s) you are attending. ADA accommodations related to hotel room reservations should be directed to the hotel when making reservations. ADA Accommodations are required by the Pre-Registration deadline (January 18, 2017). Requests received after this date may not be processed or fulfilled in time. Venues may not be able to fulfill every special dietary request. Please be specific and use standard accommodation language to detail your dietary needs.*

#### CONTINUING EDUCATION CREDIT

\$100 Administrative Fee

Registrants must pick up a CE Credit Request Form at the registration counter and submit by the deadline for credit/certificate.

Please see the *Advance Program* for detailed information, including the types of credit offered.

#### REGISTRATION FEES

Includes admittance into AAFS sessions starting with the Tuesday evening Welcoming Reception through the Saturday morning Scientific Sessions (excludes all Special Functions). A complimentary beverage ticket is included with all registration categories except Student, Daily, and Workshop Only.

Category	Pre-Registration (through January 18)	On-Site Registration (effective January 19)
<input type="checkbox"/> AAFS Members, Trainee Affiliates, Applicants*	\$295	\$420
<input type="checkbox"/> AAFS Student Affiliates	\$100	\$125
<input type="checkbox"/> AAFS Retired Fellows	\$0	\$0
<input type="checkbox"/> Non-Members	\$475	\$545
<input type="checkbox"/> Non-Member Trainees*	\$295	\$420
<input type="checkbox"/> Non-Member Full-Time Students*	\$125	\$150
<input type="checkbox"/> IAI Members* <input type="checkbox"/> AFTE Members*	\$295	\$420
<input type="checkbox"/> Daily: <input type="checkbox"/> Wed <input type="checkbox"/> Thurs <input type="checkbox"/> Fri <input type="checkbox"/> Sat	\$160/DAY	\$185/DAY
<input type="checkbox"/> Workshop Only	See Special Functions (next page)	Not Available

\*Must provide/submit additional documentation by the **January 18, 2017**, Pre-Registration deadline (via email to Tracie McCray, [tmccray@aafs.org](mailto:tmccray@aafs.org)).

◆ **Applicants** – Completed AAFS application on file by the application deadline. ◆ **Non-Member Full-Time Students** – Verification of Full-Time Enrollment Feb 2017.

◆ **Non-Member Trainees** – Letter from employer verifying trainee status. ◆ **IAI & AFTE Members** – Proof of active membership.

◆ **Registrant Minimum Age:** Registrants for the AAFS Annual Meeting must be at least 18 years old, accompanied by a parent, or a registered college student.

## SPECIAL FUNCTIONS

The following sessions are priced separately and are not included in the Registration Fees. Special Functions fill quickly due to limited seating. Registration for all Special Functions officially closes as of the **January 18, 2017**, Pre-Registration deadline. **AAFS has a firm policy that non-registered attendance or auditing is not permitted in these sessions.** (AAFS Policy and Procedure Manual 3.1.3.3.)

Breakfast Seminars (see <i>Advance Program</i> for detailed descriptions)						Fee	Qty	Total
<input type="checkbox"/>	Mon	7:00-8:30	BS1	The Mummies of Central New York – A Unique Experience for a Medical Examiner’s Office	\$50		\$	
<input type="checkbox"/>	Tues	7:00-8:30	BS2	Analysis of Black-and-White Documents – Seeing Beyond the Monochrome	\$50		\$	
<input type="checkbox"/>	Thurs	7:00-8:30	BS3	Reliving the Jeffrey Dahmer Case 25 Years Later	\$50		\$	
<input type="checkbox"/>	Fri	7:00-8:30	BS4	Cold Cases: An Exploratory Study of the Status of Unresolved Homicides in the United States	\$50		\$	
Luncheon Seminar (see <i>Advance Program</i> for detailed description)						Fee	Qty	Total
<input type="checkbox"/>	Thurs	12:00-1:30	L1	Murder on Campus – Understanding the Critical Incident and Forensic Response to a Targeted Murder	\$58		\$	
Section Luncheons (Section Business Meetings begin following the Luncheon – see <i>Advance Program</i> for times)						Fee	Qty	Total
<input type="checkbox"/>	Wed	12:00-1:00	L3	Criminalistics Section Luncheon ( <i>section members only</i> )	\$10		\$	
<input type="checkbox"/>	Wed	12:00-1:45	L4	Digital & Multimedia Sciences Section Luncheon	\$58		\$	
<input type="checkbox"/>	Wed	12:00-1:15	L5	General Section Luncheon	\$58		\$	
<input type="checkbox"/>	Wed	12:00-1:45	L6	Jurisprudence Section Luncheon	\$58		\$	
<input type="checkbox"/>	Wed	12:00-1:30	L7	Pathology/Biology Section Luncheon	\$58		\$	
<input type="checkbox"/>	Wed	12:00-1:45	L8	Psychiatry & Behavioral Science Section Luncheon	\$58		\$	
<input type="checkbox"/>	Wed	12:00-1:45	L9	Toxicology Section Luncheon	\$58		\$	
Special Sessions (see <i>Advance Program</i> for detailed descriptions)						Fee	Qty	Total
<input type="checkbox"/>	Tues	8:30-12:15	S1	Interdisciplinary Symposium: The Evolution of <i>Daubert</i> and Its Effects on the Forensic Sciences	\$50		\$	
<input type="checkbox"/>	Tues	8:30-8:00	S2	Young Forensic Scientists Forum – What Shapes Our Future? Foundations and New Directions	\$100		\$	
Workshops (see <i>Advance Program</i> for detailed descriptions)						With Meeting Reg	Workshop Only	Total
<input type="checkbox"/>	Mon	8:30-12:30	W1	Behind the Curtain: Understanding the Basic Science and Testimony of Latent Prints	\$100	\$125	\$	
<input type="checkbox"/>	Mon	8:30-4:30	W2	A Computational Framework for Skeletal Age-at-Death Estimation Using Laser Scans ( <i>bring laptop</i> )	\$250	\$300	\$	
<input type="checkbox"/>	Mon	8:30-5:00	W3	Shooting Reconstruction	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:00	W4	Sex-Related Homicide and Death Investigation: Practical and Clinical Perspectives	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:00	W5	The Opioid Epidemic: Trends, Challenges, and a Path Forward	\$250	\$275	\$	
<input type="checkbox"/>	Mon	8:30-5:00	W6	Taking a Bite Out of Crime and Other Hairy Situations	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:00	W7	How to Manage the Multidisciplinary Response to a Mass Fatality Event	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:30	W8	Applications of Hair Testing in Toxicology: Legal, Technical, and Medical Challenges	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:30	W9	Staged Crime Scenes: Crime Scene Clues to Suspect Misdirection of the Investigation	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-5:45	W10	Child Abuse: A Multidisciplinary Approach	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-6:00	W11	Extreme Violence in the Military: Multiple Case Studies	\$200	\$250	\$	
<input type="checkbox"/>	Mon	8:30-6:00	W12	Forensic Digital Multimedia: Enhancement and Authentication	\$200	\$250	\$	
<input type="checkbox"/>	Mon	9:00-12:00	W13	Forensics and Social Media: The Intersection of Education, Personal Promotion, and Professionalism	\$150	\$175	\$	
<input type="checkbox"/>	Mon	9:00-1:30	W14	Retinal Hemorrhages Associated With Pediatric Abusive and Non-Abusive Head Injury	\$100	\$125	\$	
<input type="checkbox"/>	Mon	1:00-5:30	W15	Considerations for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis	\$100	\$125	\$	
<input type="checkbox"/>	Tues	8:30-12:00	W16	The AAFS Humanitarian and Human Rights Resource Center: Year Two	\$100	\$125	\$	
<input type="checkbox"/>	Tues	8:30-12:30	W17	Communication Strategies to Mitigate Bias and Strengthen Scientific Foundations in Forensic Science	\$100	\$125	\$	
<input type="checkbox"/>	Tues	8:30-12:30	W18	The Opiate Crisis, Dirty Bombs, Big Data/Big Problems, and Driverless Cars – Theoretical “Think Tank”	\$100	\$125	\$	
<input type="checkbox"/>	Tues	8:30-12:55	W19	Women in the Sciences: Examining Systemic Barriers and Becoming Agents of Change	\$125	\$150	\$	
<input type="checkbox"/>	Tues	8:30-4:30	W20	Instrumental Chromatographic Separation Techniques for Forensic Analyses	\$200	\$250	\$	
<input type="checkbox"/>	Tues	8:30-4:30	W21	Forensic Photography and the Exposure Triangle: ISO, Depth of Field, and Shutter Speed ( <i>bring camera</i> )	\$200	\$250	\$	
<input type="checkbox"/>	Tues	8:30-5:30	W22	Viewing Research Through Different Lenses: How to Achieve Success in Court	\$200	\$250	\$	
<input type="checkbox"/>	Tues	9:00-5:00	W23	Fundamentals of Printing and Graphic Arts Examinations ( <i>bring 3-5x magnification loupe</i> )	\$200	\$250	\$	
<input type="checkbox"/>	Tues	1:30-4:30	W24	Navigating the Sea of Resources for Sexual Assault Programs	\$100	\$125	\$	
<b>Special Functions Sub-Total:</b>						<b>\$</b>		<b>\$</b>

## PAYMENT PROCESSING

Registrant Name: \_\_\_\_\_  
 Accompanying Spouse Fee (*From Page 1*): \$ \_\_\_\_\_  
 Continuing Education Fee (*From Page 1*): \$ \_\_\_\_\_  
 Registration Fee (*From Page 1*): \$ \_\_\_\_\_  
 Special Functions Total (*From Above*): \$ \_\_\_\_\_  
**TOTAL AMOUNT DUE:** \$ \_\_\_\_\_

Check Enclosed       Purchase Order (Attach Copy)  
 Visa/MasterCard/Discover/American Express  
 Card No: \_\_\_\_\_  
 Name on Card: \_\_\_\_\_  
 Expiration Date (MM/YYYY): \_\_\_\_\_  
 Security Code: \_\_\_\_\_      Billing ZIP Code: \_\_\_\_\_

All payments to AAFS must be in US Funds drawn on a US bank.

Attendee will automatically receive a registration confirmation via email.

Email a receipt copy to: \_\_\_\_\_

Signature: \_\_\_\_\_  
*Signature Required for Credit Card Purchases*

Cardholder authorizes this payment and agrees to comply with the obligations set forth in the Cardholder Agreement with the card issuer.

**Refund Policy:** All requests for refunds must be submitted via mail or email (tmccray@aaafs.org). Phone and faxed requests are not accepted. Cancelled registration fees will be refunded accordingly: Dec 1-31 at 75%; Jan 1-31 at 60%; Feb 1-5 at 50%; no refunds after February 5.

# ABOUT THE AAFS



For sixty-nine years, the American Academy of Forensic Sciences (AAFS) has served a distinguished and diverse membership. Its 6,700 members are divided into eleven sections spanning the forensic enterprise. Included among the Academy's members are physicians, attorneys, dentists, toxicologists, anthropologists, document examiners, digital evidence experts, psychiatrists, engineers, physicists, chemists, criminalists, educators, and others. Representing all 50 United States, Canada, and 63 other countries worldwide, they actively practice forensic science and, in many cases, teach and conduct research in the field as well. Each section provides opportunities for professional development, personal contacts, awards, and recognition. Many sections publish AAFS *News Feed* articles which keep their members abreast of activities and developments in their fields.

As a professional society dedicated to the application of science to the law, the AAFS is committed to the promotion of education and the elevation of accuracy, precision, and specificity in the forensic sciences. It does so via the *Journal of Forensic Sciences* (its internationally recognized scientific journal), the AAFS *News Feed*, its annual scientific meeting, the conduct of seminars and meetings, and the initiation of actions and reactions to various issues of concern. For its members and affiliates, AAFS provides expert witness referrals, job opportunity listings, as well as scientific reference studies. As the world's most prestigious forensic science organization, the AAFS represents its membership to the public and serves as the focal point for public information concerning the forensic science profession. Founded in 1948, the AAFS is headquartered in Colorado Springs, CO.

## AAFS Annual Scientific Meeting

Each February, the AAFS scientific meeting gathers together approximately 5,000 world-renowned professionals to present the most current information, research, and updates in their fields. More than 900 scientific papers, seminars, workshops, and other special sessions are presented. In addition, approximately 170 exhibitors will be present to showcase the cutting-edge technology and services of this ever-changing profession.

## Future Annual Meetings

### 2018 AAFS Annual Meeting

February 19-24, 2018  
Washington State Convention Center  
Seattle, WA

### 2019 AAFS Annual Meeting

February 18-23, 2019  
The Baltimore Convention Center  
Baltimore, MD

### 2020 AAFS Annual Meeting

February 17-22, 2020  
Anaheim Convention Center  
Anaheim, CA

### 2021 AAFS Annual Meeting

February 15-20, 2021  
George R. Brown Convention Center  
Houston, TX

### 2022 AAFS Annual Meeting

February 21-26, 2022  
Washington State Convention Center  
Seattle, WA

### 2023 AAFS Annual Meeting

February 13-18, 2023  
Rosen Shingle Creek  
Orlando, FL

410 North 21st Street  
Colorado Springs, CO 80904  
Phone: (719) 636-1100  
Fax: (719) 636-1993  
Email: [info@aafs.org](mailto:info@aafs.org)  
Website: [www.aafs.org](http://www.aafs.org)

Anne Warren, Executive Director



New Orleans  
2017

# OFFICERS & OFFICIALS

## Officers

<i>President:</i>	John E. Gerns, MFS
<i>President-Elect:</i>	Betty Layne DesPortes, JD, MS
<i>Past President:</i>	Victor W. Weedn, MD, JD
<i>Vice President:</i>	Jeri D. Roper-Miller, PhD
<i>Vice President:</i>	John L. Young, MD
<i>Secretary:</i>	Susan M. Ballou, MS
<i>Treasurer:</i>	Zeno J. Geradts, PhD

## Directors

<i>Anthropology:</i>	Laura C. Fulginiti, PhD
<i>Criminalistics:</i>	C. Ken Williams, MS, JD
<i>Digital &amp; Multimedia Sciences:</i>	Douglas S. Lacey, BS
<i>Engineering Sciences:</i>	Laura L. Liptai, PhD
<i>General:</i>	Julie A. Howe, MBA
<i>Jurisprudence:</i>	Paul Messner, JD
<i>Odontology:</i>	John P. Kenney, DDS, MS
<i>Pathology/Biology:</i>	Andrew M. Baker, MD
<i>Psychiatry &amp; Behavioral Science:</i>	Christopher R. Thompson, MD
<i>Questioned Documents:</i>	Carl R. McClary, BA
<i>Toxicology:</i>	Ruth E. Winecker, PhD

## 2017 Annual Scientific Meeting Program Committee

<i>Program Chair:</i>	Julie A. Howe, MBA
<i>Program Co-Chair:</i>	Christine Funk, JD
<i>Plenary Session:</i>	Joanna L. Collins, MFS; Nikolas P. Lemos, PhD
<i>Poster Sessions:</i>	Vincent J. Desiderio, Jr., MS; Michelle R. Hoffman, MS
<i>Workshops:</i>	Christopher R. Thompson, MD; Karolyn L. Tontarski, MS
<i>Breakfast Seminars:</i>	Laura C. Fulginiti, PhD; Peter T. Ausili, MS
<i>Luncheon Seminars:</i>	Gregory G. Davis, MD; Marie Samples, MS
<i>Last Word Society:</i>	James E. Starrs, LL.M.; Kenneth E. Melson, JD
<i>Bring Your Own Slides:</i>	Michael M. Baden, MD; Joseph A. Prahlow, MD
<i>Student Academy:</i>	Julie A. Howe, MBA; Marilyn T. Miller, EdD
<i>Interdisciplinary Symposium:</i>	Marla E. Carroll, BS; Linton Mohammed, PhD
<i>Local Arrangements:</i>	Robert E. Barsley, DDS, JD
<i>Anthropology:</i>	Vince H. Stefan, PhD; Elizabeth A. Miller, PhD
<i>Criminalistics:</i>	Kristy Kadash, PhD; Patrick Buzzini, PhD
<i>Digital &amp; Multimedia Sciences:</i>	Jeff M. Smith, MS; Mary F. Horvath, MFS
<i>Engineering Sciences:</i>	David Pienkowski, PhD
<i>General:</i>	Melissa A. Connor, PhD; Gina Londino, MS
<i>Jurisprudence:</i>	Ted W. Vosk, JD; Christine Haskell, JD
<i>Odontology:</i>	Roger D. Metcalf, DDS, JD
<i>Pathology/Biology:</i>	David O. Carter, PhD
<i>Psychiatry &amp; Behavioral Science:</i>	Varendra Gosein, MD; J. Paul Fedoroff, MD
<i>Questioned Documents:</i>	Samiah Ibrahim, BSc
<i>Toxicology:</i>	Nikolas P. Lemos, PhD; William R. Johnson, BA



# OFFICERS & OFFICIALS

## Past Presidents

*R.B.H. Gradwohl, MD . . . . .	1949-51	*George E. Gantner, MD . . . . .	1983-84
*S.A. Levinson, MD, PhD . . . . .	1951-52	Maureen Casey Owens, AB . . . . .	1984-85
*R.N. Harger, PhD . . . . .	1952-53	*Arthur D. Goldman, DMD . . . . .	1985-86
*Louis P. Regan, MD, LLB . . . . .	1953-54	*Don Harper Mills, JD, MD . . . . .	1986-87
*A.W. Freireich, MD . . . . .	1954-55	Yale H. Caplan, PhD . . . . .	1987-88
*Fred E. Inbau, BS, LLB, LLM . . . . .	1955-56	Richard S. Frank, BS . . . . .	1988-89
*Alan R. Moritz, MD . . . . .	1956-57	*Richard C. Froede, MD . . . . .	1989-90
*Val B. Satterfield, MD . . . . .	1957-58	*Ellis R. Kerley, PhD . . . . .	1990-91
*John F. Williams, BS . . . . .	1958-59	*Homer R. Campbell, Jr., DDS . . . . .	1991-92
*Ordway Hilton, MA . . . . .	1959-60	Marina Stajić, PhD . . . . .	1992-93
*Russel S. Fisher, MD . . . . .	1960-61	*Enrico N. Togneri, BA . . . . .	1993-94
*S.R. Gerber, MD, LLB . . . . .	1961-62	Steven C. Batterman, PhD . . . . .	1994-95
*Milton Helpern, MD . . . . .	1962-63	Haskell M. Pitluck, JD . . . . .	1995-96
*Oliver C. Schroeder, Jr., JD . . . . .	1963-64	Richard Rosner, MD . . . . .	1996-97
*Dwight M. Palmer, MD . . . . .	1964-65	Michael A. Peat, PhD . . . . .	1997-98
*Robert B. Forney, PhD . . . . .	1965-66	Barry A.J. Fisher, MS, MBA . . . . .	1998-99
*Jack L. Sachs, JD . . . . .	1966-67	Patricia J. McFeeley, MD . . . . .	1999-00
*Charles S. Petty, MD . . . . .	1967-68	John D. McDowell, DDS, MS . . . . .	2000-01
*Maier I. Tuchler, MD . . . . .	1968-69	Mary Fran Ernst, BLS . . . . .	2001-02
*James W. Osterburg, MPA . . . . .	1969-70	Graham R. Jones, PhD . . . . .	2002-03
*Edwin C. Conrad, JD, PhD . . . . .	1970-71	Kenneth E. Melson, JD . . . . .	2003-04
Cyril H. Wecht, MD, JD . . . . .	1971-72	Ronald L. Singer, MS . . . . .	2004-05
Douglas M. Lucas, MSc, DSc . . . . .	1972-73	Edmund R. Donoghue, MD . . . . .	2005-06
*Morton F. Mason, PhD . . . . .	1973-74	James G. Young, MD . . . . .	2006-07
David A. Crown, DCrim . . . . .	1974-75	Bruce A. Goldberger, PhD . . . . .	2007-08
*Robert J. Joling, JD . . . . .	1975-76	Carol E. Henderson, JD . . . . .	2008-09
*James T. Weston, MD . . . . .	1976-77	Thomas L. Bohan, PhD, JD . . . . .	2009-10
*B. Edward Whittaker, BS . . . . .	1977-78	Joseph P. Bono, MA . . . . .	2010-11
Kurt M. Dubowski, PhD . . . . .	1978-79	Douglas H. Ubelaker, PhD . . . . .	2011-12
*June K. Jones, MS . . . . .	1979-80	Robert E. Barsley, DDS, JD . . . . .	2012-13
Lowell J. Levine, DDS . . . . .	1980-81	Barry K. Logan, PhD . . . . .	2013-14
*Joseph H. Davis, MD . . . . .	1981-82	Daniel A. Martell, PhD . . . . .	2014-15
*Anthony Longhetti, BA . . . . .	1982-83	Victor W. Weedn, MD, JD . . . . .	2015-16

\* Deceased





New Orleans  
2017

# OFFICERS & OFFICIALS

## Section Officers

### Anthropology

*Chair:* Gregory E. Berg, PhD  
*Secretary:* Kate Spradley, PhD

### Criminalistics

*Chair:* Karolyn L. Tontarski, MS  
*Secretary:* Vincent J. Desiderio, Jr., MS

### Digital & Multimedia Sciences

*Chair:* Marcus Rogers, PhD  
*Secretary:* Marla E. Carroll, BS

### Engineering Sciences

*Chair:* John Nixon, CEng, MBA  
*Secretary:* Michelle R. Hoffman, MS

### General

*Chair:* Claire E. Shepard, MS  
*Secretary:* Joanna L. Collins, MFS

### Jurisprudence

*Chair:* Stephanie Domitrovich, JD, PhD  
*Secretary:* Pamela A.W. King, JD

### Odontology

*Chair:* Raymond G. Miller, DDS  
*Secretary:* Adam J. Freeman, DDS

### Pathology/Biology

*Chair:* James Louis Caruso, MD  
*Secretary:* Joyce L. de Jong, DO

### Psychiatry & Behavioral Science

*Chair:* Karen B. Rosenbaum, MD  
*Secretary:* Dean Michael De Crisce, MD

### Questioned Documents

*Chair:* Linton Mohammed, PhD  
*Secretary:* Jan Seaman Kelly, BA

### Toxicology

*Chair:* Dan T. Anderson, MS  
*Secretary:* Fiona J. Couper, PhD

## R.B.H. Gradwohl Laureates

*Milton Helpern, MD	1978
*Rolla N. Harger, PhD	1979
*James T. Weston, MD	1984
*Oliver C. Schroeder, Jr., JD	1987
Abel M. Dominguez, PhD	1993
Douglas M. Lucas, MSc, DSc	1995
Kenneth S. Field, MBA	1997
*Sidney Kaye, PhD	1998
*Richard C. Froede, MD	2002
*Joseph H. Davis, MD	2005
Barry A.J. Fisher, MS, MBA	2008
Kurt M. Dubowski, PhD	2011
James E. Starrs, LL.M.	2012
Thomas T. Noguchi, MD	2015
Robert E. Gaensslen, PhD	2017

## Douglas M. Lucas Medalists

Sir Alec J. Jeffreys, DPhil	1999
*Alan S. Curry, PhD	2002
Joseph Almog, PhD	2005
*Clyde C. Snow, PhD	2008
Pierre A. J.-L. Margot, PhD	2011
Duarte N. Vieira, PhD, MD	2014
Douglas H. Ubelaker, PhD	2017

\* Deceased



# OFFICERS & OFFICIALS

## Distinguished Fellows

Abel M. Dominguez, PhD . . . . .	1990	Robert B. J. Dorion, DDS . . . . .	2002
Kenneth S. Field, MBA . . . . .	1990	Richard S. Frank, BS . . . . .	2002
*Ordway Hilton, MA . . . . .	1990	Carla M. Noziglia, MS . . . . .	2003
Douglas M. Lucas, MSc, DSc . . . . .	1990	*James L. Frost, MD . . . . .	2004
Irwin N. Perr, MD, JD . . . . .	1990	*Gerald L. Vale, DDS, JD . . . . .	2004
Kurt M. Dubowski, PhD . . . . .	1991	Michael Finnegan, PhD . . . . .	2005
*June K. Jones, MS . . . . .	1991	Andre A. Moenssens, JD, LLM . . . . .	2005
*Oliver C. Schroeder, Jr., JD . . . . .	1991	Michael A. Peat, PhD . . . . .	2006
*Clyde C. Snow, PhD . . . . .	1991	Thomas T. Noguchi, MD . . . . .	2007
*Robert H. Cravey, BS . . . . .	1992	Kenneth E. Melson, JD . . . . .	2008
*Richard C. Froede, MD . . . . .	1992	Joseph L. Peterson, DCrim . . . . .	2008
*Emanuel Tanay, MD . . . . .	1992	Randy L. Hanzlick, MD . . . . .	2009
*Joseph H. Davis, MD . . . . .	1993	Jay A. Siegel, PhD . . . . .	2009
*Anthony Longhetti, BA . . . . .	1993	Ronald L. Singer, MS . . . . .	2010
*Don Harper Mills, JD, MD . . . . .	1993	*Robert Thibault, MFS . . . . .	2010
William M. Bass III, PhD . . . . .	1994	Mary Fran Ernst, BLS . . . . .	2011
Henry C. Lee, PhD . . . . .	1994	Patricia J. McFeeley, MD . . . . .	2011
*David J. Purtell, PhD . . . . .	1994	Richard Rosner, MD . . . . .	2011
*Charles J. Stahl III, MD . . . . .	1995	*James W. Osterburg, MPA . . . . .	2012
*Irving Sunshine, PhD . . . . .	1995	Haskell M. Pitluck, JD . . . . .	2012
Yale H. Caplan, PhD . . . . .	1996	John D. McDowell, DDS, MS . . . . .	2013
James E. Starrs, LL.M. . . . .	1996	Marina Stajić, PhD . . . . .	2013
*Homer R. Campbell, Jr., DDS . . . . .	1998	Edmund R. Donoghue, MD . . . . .	2014
John J. Harris, BS . . . . .	1998	Graham R. Jones, PhD . . . . .	2014
Norman D. Sperber, DDS . . . . .	1998	Marilyn A. Huestis, PhD . . . . .	2015
*James V.P. Conway . . . . .	2000	Douglas H. Ubelaker, PhD . . . . .	2016
Robert E. Gaensslen, PhD . . . . .	2000	Peter R. De Forest, DCrim . . . . .	2017
Steven C. Batterman, PhD . . . . .	2001		
*B.G. Brogdon, MD . . . . .	2001		
Barry A.J. Fisher, MS, MBA . . . . .	2001		

\* Deceased



New Orleans  
2017

# GENERAL INFORMATION

## Registration Desk Hours

*Hyatt Regency New Orleans*

Sunday	February 12	1:00 p.m.	-	5:00 p.m.
Monday	February 13	6:45 a.m.	-	5:00 p.m.
Tuesday	February 14	6:45 a.m.	-	6:00 p.m.
Wednesday	February 15	6:45 a.m.	-	5:00 p.m.
Thursday	February 16	6:45 a.m.	-	5:00 p.m.
Friday	February 17	6:45 a.m.	-	4:00 p.m.
Saturday	February 18	7:30 a.m.	-	9:30 a.m.

## Exhibit Hall Hours

*Hyatt Regency New Orleans*

Wednesday	February 15	11:30 a.m.	-	4:00 p.m.
Thursday	February 16	9:00 a.m.	-	2:00 p.m.
AAFS Reception	(Exhibits Open)	6:00 p.m.	-	8:00 p.m.
Friday	February 17	9:00 a.m.	-	1:00 p.m.

## Attention Meeting Presenters

The *Journal of Forensic Sciences* encourages authors to submit previously unpublished reports and papers presented at the AAFS annual meeting.

For full instructions on manuscript preparation, consult the Information for Authors available at <https://www.aafs.org/resources/journal-of-forensic-sciences/information-for-authors/>.

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

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, meeting attendees are asked to silence their cell phones when attending the sessions.*

# AWARDS & RECEPTIONS



New Orleans  
2017

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The **R.B.H. Gradwohl Laureate Medallion**, the **Distinguished Fellow Award**, and the **AAFS Outstanding Early Career Achievement in Forensic Science Award** will be presented on Wednesday, February 15, 2017, during the AAFS Annual Business Meeting. Join us in acknowledging your most distinguished colleagues as they are presented with these prestigious awards.

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## R.B.H. Gradwohl Laureate Medallion Honoree

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*Robert E. Gaensslen, PhD*

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## Distinguished Fellow Honoree

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*Peter R. De Forest, DCrim*

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## AAFS Outstanding Early Career Achievement in Forensic Science Award

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*Kristina L. Hoffman, PSM*

Section Awards will be presented during Section Business Meetings, also on Wednesday, February 15, 2017, (see Section Business Meeting start times on page 16). The Section Award recipients will be acknowledged again before the entire membership during the AAFS Annual Business Meeting, along with the presentation of the R.B.H. Gradwohl Medallion, the Distinguished Fellow Medal Plaque, and the AAFS Outstanding Early Career Achievement in Forensic Science Award.

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## 2017 Section Award Honorees

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### **Anthropology Section's**

T. Dale Stewart Award

J. Lawrence Angel Award

Ellis R. Kerley Foundation Best Paper Award  
Service Award

Frank P. Saul, PhD  
Julie M. Saul, BA  
Sarah Ellingham, PhD  
Cliff Boyd, PhD  
Angi M. Christensen, PhD  
Rodger Heglar, PhD  
Elias J. Kontanis, PhD  
Richard G. Snyder, PhD  
Phoebe R. Stubblefield, PhD

### **Criminalistics Section's**

Paul L. Kirk Award

Mary E. Cowan Outstanding Service Award

Meritorious Service Award

John M. Butler, PhD  
Mary M. Gibbons, MCrim  
Lucy A. Davis, BHS



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## AWARDS & RECEPTIONS

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### **Digital & Multimedia Sciences Section's**

Outstanding Research Award

Outstanding Case Study Award

Carrie Morgan Whitcomb Service Award

Mark D. Guido, MS

Joseph Levi White, MS

David W. Baker, MFS

### **Engineering Sciences Section's**

Founders Award

John Nixon, CEng, MBA

### **General Section's**

John R. Hunt Award

Paul W. Kehres Meritorious Service Award

Neal H. Haskell, PhD

Timothy M. Palmbach, MS, JD

### **Odontology Section's**

Lester Luntz Award

Reidar F. Sognaes Award of Excellence in Forensic Odontology

Thomas J. David, DDS

Franklin D. Wright, DMD

### **Pathology/Biology Section's**

2016 Best Resident Paper Award

Milton Helpern Award

Award for Achievement in the Forensic Life Sciences

Forensic Biologist Trainee Paper Award

Tiffany Baker, MD

Victor W. Weedn, MD, JD

Kim A. Collins, MD

Gail S. Anderson, PhD

Banshwar Singh, PhD

### **Psychiatry & Behavioral Science Section's**

Richard Rosner, MD Award for the Best Paper by a Fellow in

Forensic Psychiatry or Forensic Psychology – Honorable Mention

Subhash Chandra, MD

Samuel J. House, MD

### **Questioned Documents Section's**

Ordway Hilton Award

Ronald N. Morris, BS

### **Toxicology Section's**

Rolla N. Harger Award

Ray Abernethy Award

Irving Sunshine Award

June K. Jones Scholarship Award

John F. Wyman, PhD

Laura J. Liddicoat, PhD

Dayong Lee, PhD

Kayla N. Ellefsen, PhD

Matthew N. Newmeyer, BS

## 2017 AAFS Regional Award Winners

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**Midwest Association for Toxicology & Therapeutic Drug Monitoring**

**Southern Association of Forensic Scientists**

Rachel M. Hamilton, MS

Christina R. Carl, BS



# AWARDS & RECEPTIONS



New Orleans  
2017

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## 2016-17 FSF Emerging Forensic Scientist Award Honorees

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The FSF Emerging Forensic Scientist Award will be presented on Wednesday, February 15, 2017, during the AAFS Annual Business Meeting. You'll want to be present to congratulate recipients:

*Lauren Traveller, DNP, and Kelsey L. Wilkinson, MS*

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## 2016-17 FSF Henry C. Lee Scholarship Recipient

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The FSF Henry C. Lee Scholarship will be presented on Wednesday, February 15, 2017, during the AAFS Annual Business Meeting. You'll want to be present to congratulate recipient:

*Kent M. Adamson, MSc*

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## 2016-17 FSF Warren-Young Scholarship Recipient

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The FSF Warren-Young Scholarship will be presented on Wednesday, February 15, 2017, during the Annual Business Meeting. You'll want to be present to congratulate recipient:

*Leanne K. Moorman, MS*

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## 2016-17 FSF Jan S. Bashinski Criminalistics Graduate Thesis Assistance Grant

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The FSF Jan S. Bashinski Criminalistics Graduate Thesis Assistance Grant will be presented on Wednesday, February 15, 2017, during the Criminalistics Section Business Meeting. You'll want to be present to congratulate recipient:

*Wei Chean Chuah, BS*

## RECEPTION INFORMATION

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### Welcoming Reception — Tuesday, February 14 — 6:00 p.m. - 8:00 p.m.

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This opening event is your opportunity to meet old friends and to make new acquaintances. Snacks and cash bars will be available.

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### AAFS 69<sup>th</sup> Annual Wine & Cheese Reception — Thursday, February 16 — 6:00 p.m. - 8:00 p.m.

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The AAFS Wine & Cheese Reception will be held to celebrate what promises to be an excellent 2017 program and to toast your return to the Academy's 70<sup>th</sup> Annual Scientific Meeting in 2018 (Seattle, WA)!



New Orleans  
2017

## SECTION BUSINESS MEETINGS

### The Sections

The Sections of the American Academy of Forensic Sciences will hold their annual business meetings on Wednesday, February 15, 2017. Some of the sections will hold a luncheon prior to the start of the business meeting. This is your opportunity to participate! Please attend and contribute to your section's future plans. Specific times are noted below:

Section	Luncheon	Business Meeting
Anthropology		2:00 p.m. - 3:45 p.m.
Criminalistics <sup>2</sup>	12:00 p.m. - 1:00 p.m.	1:05 p.m. - 3:45 p.m.
Digital & Multimedia Sciences <sup>1</sup>	12:00 p.m. - 1:45 p.m.	2:00 p.m. - 3:45 p.m.
Engineering Sciences		1:30 p.m. - 3:45 p.m.
General <sup>1</sup>	12:00 p.m. - 1:15 p.m.	1:30 p.m. - 3:45 p.m.
Jurisprudence <sup>1</sup>	12:00 p.m. - 1:45 p.m.	2:00 p.m. - 3:45 p.m.
Odontology		2:00 p.m. - 3:45 p.m.
Pathology/Biology <sup>1</sup>	12:00 p.m. - 1:30 p.m.	1:45 p.m. - 3:45 p.m.
Psychiatry & Behavioral Science <sup>1</sup>	12:00 p.m. - 1:45 p.m.	2:00 p.m. - 3:45 p.m.
Questioned Documents		2:00 p.m. - 3:45 p.m.
Toxicology <sup>1</sup>	12:00 p.m. - 1:45 p.m.	2:00 p.m. - 3:45 p.m.

<sup>1</sup> These luncheons require pre-registration.

<sup>2</sup> This luncheon requires pre-registration and is open only to members of the Criminalistics Section.

### The Annual Business Meeting of Fellows and Members — Attend to Win a Complimentary Meeting Registration!

The Annual Business Meeting of the Fellows and Members of AAFS will be held Wednesday, February 15, 2017, at 4:15 p.m., at the Hyatt Regency New Orleans in New Orleans, LA. 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 2017-18 Officers, consideration of bylaw amendments, presentation of the Gradwohl Medallion, Distinguished Fellow and AAFS Outstanding Early Career Achievement in Forensic Science Awards, and recognition of all Members being promoted to Fellow status. You also will be briefed on 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 2018 AAFS Annual Scientific Meeting in Seattle, WA.

# NEW ORLEANS, LA



## WELCOME TO NEW ORLEANS!

New Orleans is a non-stop party with activities continually underway, including Creole food, impromptu jazz music pouring out of countless bars, hints of Mardi Gras year-round, and touches of culture, history, and architecture found in its many museums. A melting pot of cultures (French, Creole, African-American, Caribbean, Irish, Haitian, German, Vietnamese, and more) lends a distinction that gives the “Big Easy” a relentless energy and makes it a unique American city to visit. The French Quarter boasts horse-drawn carriage rides, live Dixieland music on Bourbon Street, Colonial-era houses, and a 250+ year-old market.

## Climate in February

The occasional cold snap during the mild winter months can be downright chilly at times. Freezing temperatures make everyone stop and stare, as snow is a distant memory for many, and few people know how to drive on icy roads.

## Transportation

### By Plane

Louis Armstrong International Airport (MSY) is now the sixth-largest airport in the southeast, and undergoing an expansion of a new terminal. Airlines that service New Orleans include Air Canada, Alaska Airlines, Allegiant Air, American Airlines, Branson AirExpress, Condor, Copa Airlines, Delta Airlines, Frontier Airlines, GLO, Jet Blue Airways, Southwest Airlines, Spirit Airlines, United Airlines, and VacationExpress. The airport is located 15 miles west of the city in Kenner, with an exit on Interstate 10. Allow 30-45 minutes to reach downtown, with afternoon traffic starting as early as 3:00 p.m. Tulane Avenue or the Earhart Expressway can also be used to reach the airport, but expect stoplights and potential traffic.

- **Taxi**

Taxi service is available at booths outside Baggage Claims 1 and 14 on the ground level of the Terminal.

Flat rates are \$36 for 2 passengers to the Central Business District (CBD) or French Quarter. For more than 2 passengers, the rate is \$15/person. Credit card payments are accepted.

- **Airport Shuttle**

An airport shuttle with service to hotels or other destinations in New Orleans is \$24/person for a one-way trip and \$44/person for a round-trip fare. These prices include three pieces of luggage per person, with possible surcharges for additional bags. Tickets can be purchased at any of the Airport Shuttle ticket booths along Baggage Claim. Group tickets are available.

- **Limousines**

Limousines are available through A-Airport Limousine, with kiosks throughout Baggage Claim. Prices vary according to the model selected, and range from \$58 for two people to \$118 for eight people. For reservations call 1-866-739-5466 or go online to [www.airportlimousineneworleans.com](http://www.airportlimousineneworleans.com).

- **Public Transit**

Passengers can also take the Regional Transportation Authority (RTA) or the Jefferson Transit Authority (JET) for a fraction of the cost. Visit the second floor bus stop, along the outer lanes, outside the Concourse C Lobby Information Booth. The JET Airport-Downtown Express (E2) provides a 50-minute ride into New Orleans for \$2. The bus accepts \$1, \$5, \$10, and \$20 dollar bills and any U.S. coin. The RTA Airport Express (202) can be taken roundtrip, offering pickup from the Elk Place at Cleveland and the Union Passenger Terminal Bus Bay 2 to the Departures Level of the Terminal. One-way fares are \$1.50, exact change please.

- **Car Rental**

Car rental is available at the Consolidated Rental Car Facility (CONRAC). Visitors should exit the Terminal near Baggage Claims 12-14 and head right through a covered walkway. CONRAC offers nine rental car companies: Alamo, Avis, Budget, Dollar, Enterprise, Hertz, National, Payless, Thrifty.



New Orleans  
2017

# NEW ORLEANS, LA

## By Train

Amtrak and Greyhound routes stop at the Union Passenger Terminal, located in the Central Business District (CBD) at 1001 Loyola Avenue. The terminal is within a mile of the Hyatt Regency Hotel, and the Loyola Avenue Streetcar connects passengers to Canal Street. There are three Amtrak routes that service New Orleans: 1) the City of New Orleans, from Chicago; 2) the Crescent, that connects New Orleans and New York, through Atlanta; and 3) the Sunset Limited, which runs from New Orleans to Los Angeles. For more information, call (800) 872-7245, or visit [www.amtrak.com](http://www.amtrak.com).

## By Car

The main route through New Orleans is Interstate 10, which starts in southern California and continues through Los Angeles, Phoenix, Tucson, El Paso, San Antonio, Houston, Baton Rouge, Tallahassee, and terminates in Jacksonville, FL. The main north-south passages are Interstates 49, 55, and 59. Expect delays when driving at peak traffic hours.

International visitors should note that insurance and taxes are almost never included in quoted rental-car rates in the U.S. Be sure to ask your rental agency about these, as they can add a significant cost to your car rental.

## Getting Around New Orleans

### By Car

Visitors often find it easier to forego driving in lieu of walking or taking a streetcar, bus, or taxi. Potholes and bumps prevail as paved roads battle swamp-like, uneven, and tree-root strewn terrain. Parking and city laws are stringent and will ticket for parking less than 15 feet from a corner. Some street signs remain missing, and the layout from the older part of town predates the automobile and is filled with one-way streets and the challenges of parallel parking. Gas stations are in short supply; look on Rampart Street when downtown and Carrollton Avenue when uptown.

Car rental rates in New Orleans start at \$40 a day or \$250 a week for an economy-sized car. Quoted prices do not include a local 9% tax for car rentals and can include additional surcharges, increasing costs another 10-15%.

### By Taxi

Taxis are plentiful and useful for even short trips. Locals prefer United Cabs, Yellow Checker, and Veterans, while urging against any unlicensed or unmarked cabs. The base fare is \$3.50, with each additional mile \$2. Additional passengers are \$1/person. Look for taxis along Decatur Street, Canal Street, or any major hotel in the French Quarter or the CBD. If outside these areas, call to arrange for pickup.

## By Streetcar

There are five main lines:

- The **Canal Streetcar– Cemeteries** travels along Canal Street from the French Quarter to the cemeteries at City Park Avenue.
- The **Canal Streetcar – City Park/Museum** takes Canal Street to Carrollton Avenue, terminating at the New Orleans Museum of Art.
- The **Loyola-UPT** Streetcar starts at the Union Passenger Terminal (rail and bus station) on Loyola Avenue, with a stop in front of the Hyatt Regency Hotel/Hyatt House before continuing onto Canal Street. Additional stops include the Audubon Aquarium of the Americas and the Audubon Butterfly Garden Insectarium before the Loyola streetcar route finishes at Esplanade Avenue.
- The **Riverfront** Streetcar originates in the French Quarter at Esplanade Avenue and ends at the Ernest N. Morial Convention Center.
- The **St. Charles** Streetcar route starts at Canal Street/S Claiborne Avenue and tours St. Charles Avenue, passing such sites as Lafayette Square, the Robert E. Lee Monument, and Loyola and Tulane Universities, before reaching its terminal at S Claiborne Avenue/ S Carrollton Avenue).

A one-way fare costs \$1.25, with \$1.50 for express routes, \$.25 for transfers, and exact change only. For unlimited rides, buy a Jazzy Pass for \$3.00/1-day or \$9.00/3-days at any Walgreens store or on the RTA website

## By Bus

New Orleans RTA operates 80 buses on 32 bus routes. Many of the buses are updated, as nearly the entire fleet of buses was lost in the flooding after Hurricane Katrina. These updates make navigation easier for travelers who can use the RTA website to 1) view schedules and maps; 2) receive text messages for the arrival of the bus/streetcar they are taking (<http://www.norta.com/Rider-Tools/Mobile-RTA.aspx>); and 3) find the nearest RTA stop. An interactive map on the RTA website also allows passengers to view individual routes for buses and streetcars.

## Sources:

Fodor's Travels: <http://www.fodors.com/world/north-america/usa/louisiana/new-orleans/travel-tips>

WikiTravel: [http://wikitravel.org/en/New\\_Orleans](http://wikitravel.org/en/New_Orleans)

Louis Armstrong New Orleans International Airport: <http://www.flymsy.com/>

RTA: <http://www.norta.com/>

# ACCOMMODATIONS



New Orleans  
2017

## 69<sup>th</sup> Annual Scientific Meeting Accommodations Information

AAFS 69<sup>th</sup> Annual Scientific Meeting  
February 13-18, 2017  
Headquarters: Hyatt Regency New Orleans  
New Orleans, LA, U.S.A.

The American Academy of Forensic Sciences has selected the Hyatt Regency New Orleans as the Headquarter property during the 69<sup>th</sup> Annual Scientific Meeting in New Orleans, LA. The Hyatt Regency New Orleans offers great amenities to help you throughout your stay.

For hotel availability during the American Academy of Forensic Sciences 69<sup>th</sup> Annual Scientific Meeting, please go to the AAFS Annual Meeting “Accommodations” webpage to make your hotel reservation under the AAFS room block. By using this link on the AAFS Accommodations page, you will be taken to the hotel’s AAFS specific meetings page where you may secure your reservation at the group-contracted rate of \$207 for either single or double rooms.

While early reservations are recommended to take advantage of discounted rates, please be sure to cancel your reservations prior to the Monday, January 9, 2017, deadline if you are unable to attend or you cannot use the reservations. This will make the rooms available for other attendees and will help AAFS avoid the financial penalties associated with cancellations made after the room block closes.

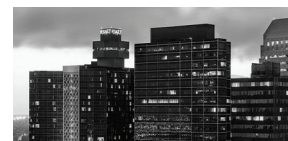
### Hyatt Regency New Orleans

601 Loyola Avenue  
New Orleans, LA 70113  
Telephone: (504) 561-1234  
Single/Double: **\$207**



### Hyatt House New Orleans/Downtown

1250 Poydras Street  
New Orleans, LA, 70113  
Telephone: (504) 648-3118  
Single/Double: **\$289**



**Reservations:** <https://resweb.passkey.com/go/amacadofforensicsciences2017>

### Standard Amenities:

#### Hyatt Regency New Orleans:

- Wireless high-speed Internet access
- Work desk with enhanced lighting
- Voicemail, cordless phone, dual-line speaker phone
- 42-inch flat panel HDTV
- Roomlinx interactive TV and Internet platform
- Cable movie/TV channels and video on demand
- Full bath amenities and hair dryer
- Valet parking

#### Hyatt House New Orleans/Downtown:

- Free Wi-Fi everywhere
- 42-inch flat screen TV with high definition channels
- Plug-N-Play TV adaptors
- Separate workspace
- Cordless speakerphone with voicemail
- Remote printing
- Luxury skin and hair care amenities
- Iron & ironing board

Explore the highlights of the city from the Hyatt Regency New Orleans and the Hyatt House New Orleans/Downtown. The hotels’ downtown location allow access to the Mercedes-Benz Superdome, Smoothie King Center, and Champions Square, the Loyola Avenue streetcar, and is within a mile’s walking distance of the French Quarter, the Arts District, several museums, and the Mississippi riverfront. Experience the culinary delights at award-winning hotel restaurants that offer everything from gumbo to sushi to burgers.

Booking a room in the AAFS room block is an important way to support AAFS and to keep overall meeting costs as low as possible. AAFS commits to a block of rooms at the area hotels on behalf of meeting attendees and has a financial obligation to fill those blocks. Please help us to avoid penalties and to control costs for future events by staying at the official hotel. Staying within the block is also more convenient and helps you stay connected with the informal activities and networking opportunities that occur at the hotels during the meeting. If you are required to reserve a room through your company’s travel department, please forward the booking link to them so that you can reserve a room in the AAFS room block.





New Orleans  
2017

# CONTINUING EDUCATION

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## General Information

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All meeting sessions are lectures with one or more speakers. Continuing professional education credits are offered for physicians, dentists, attorneys, and chemists. Continuing education credit applications have been submitted for physicians, dentists, attorneys, and chemists. Nurses may use the AAFS CME Credit Reporting Forms for filing CERP hours with their state accreditation agency. Please check with your state agency for details. In addition, AAFS offers a generic CE certificate which may be used for purposes not outlined above.

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 credits. 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 the various accrediting organizations, introductions, breaks, and lunches 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 documentation regarding the number of continuing education hours awarded. Attendance reports are filed with the appropriate state or national agency, as required.

## Objectives of the AAFS Continuing Education Program

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To provide for multidisciplinary presentation, instruction, and discussion of relevant forensic science issues related to science, evidence and the law, and to research descriptive studies, technology and methods, diagnostics, interpretations, testimony, and administrative functions performed by forensic scientists in the disciplines of anthropology, biology, criminalistics, digital & multimedia sciences, engineering sciences, general forensic investigation, jurisprudence, odontology, pathology, psychiatry & behavioral science, psychology, questioned document examination, and toxicology.

## Expected Outcome of Participation

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A participant in the AAFS Continuing Education Program should: a) understand the perspectives and roles of the various forensic science disciplines; b) increase awareness of current forensic science issues; c) learn new technologies and methods; d) broaden diagnostic acumen; e) gain practical knowledge to modify current practices; f) affirm current concepts and practices; g) improve interpretative skills regarding evidence, observations, and information; h) interact with colleagues; and, i) expand one's historical perspective on the forensic sciences.

## Faculty Disclosure Policy

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As a sponsor of continuing education, the American Academy of Forensic Sciences must insure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty participating in a sponsoring activity are expected to disclose any significant financial interest or other relationship: (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation; and, (2) with any commercial supporters of the activity. (Significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stockholder, member of speaker's bureaus, etc.) AAFS has an established policy regarding conflicts of interest that includes decisions the Program Committee members may make in selecting content for the Annual Scientific Meeting Program. By serving on the committee, regardless of role, each member has agreed to comply with Section 1.4.7. of the *AAFS Policy and Procedure Manual*.

To serve on the 2016-17 Program Committees, it is required that relevant AAFS staff members, program committee members, and reviewers complete a Financial Disclosure form before they are provided access to review submissions for the program. For continuing education accreditation purposes, the disclosed relationships are published below so that learners are aware of the nature of any relationships that may impact the selection of presentations for the program. If a committee member failed to provide complete disclosure of a relevant financial interest or relationship, the committee member or reviewer was not allowed to serve. The executed Faculty Disclosure Forms are on file in the AAFS Office.

# CONTINUING EDUCATION



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## American Board of Criminalists Approval

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

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

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#### *Workshops and Special Sessions*

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

**Educational Objectives:** Detailed individually in each workshop and special session announcement and description.

**CE Credit:** Varies from 1.5 credit hours to 16 credit hours depending on sessions.

#### *Breakfast/Luncheon Seminars*

**Purpose:** To provide an opportunity for presentation and discussion of relevant historical and current topics of forensic science interest related to specific case investigations, or general or specific investigative needs and procedures, methodologies, and testimony.

**Educational Objectives:** Detailed individually in each breakfast/luncheon seminar announcement and description.

**CE Credit:** Designated for a maximum of .75 credit hour for Breakfast Seminars and 1.0 credit hour for Luncheon Seminars.

#### *Plenary Session*

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

**Educational Objectives:** 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.

**CE Credit:** Designated for a maximum of 2.0 credit hours.

#### *Oral and Poster Section Scientific Sessions*

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

**Educational Objectives:** To meet the educational objectives stated by each presenter for his/her presentation.

**CE Credit:** Varies according to the individual's session attendance. Designated for a maximum of 25.0 credit hours.

#### *Last Word Society*

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

**Educational Objectives:** To meet the educational objectives stated by each presenter for his/her presentation.

**CE Credit:** Designated for a maximum of 2.0 credit hours.



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# CONTINUING EDUCATION

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## Guidelines For Claiming Credit

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As the sponsor of Continuing Education Credit, the AAFS recognizes that the forensic science disciplines are inextricably linked and that interdisciplinary knowledge is critical to promote competency in forensic practice. As a result, the claiming of credit for various continuing education activities related to medicine, dentistry, law, chemistry, 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 for this service on the meeting Registration Form. CE Credit Request Forms will be available at the registration desk. The completed forms must be returned to AAFS by the designated deadline.

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### Dental

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This activity is eligible for CDE credit. See final activity announcement for specific details. Postgraduate Institute for Medicine is an ADA CERP Recognized Provider.

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### Legal

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Continuing legal education credit will be awarded on an hour-for-hour basis. Attorneys may file the AAFS-issued CLE certificate with their respective state bars.

Please contact Continuing Education Coordinator Kimberly Wrasse, [kwrasse@aafs.org](mailto:kwrasse@aafs.org), no later than the January 18, 2017, pre-registration deadline if your state bar will not allow you to self-report. AAFS will apply for accreditation/approval from your state in this circumstance.

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### Medical

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The American Academy of Forensic Sciences (AAFS) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The American Academy of Forensic Sciences designates this live activity for a maximum of 60 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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### General

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

## FINANCIAL CONTRIBUTORS



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**The American Academy of Forensic Sciences  
would like to thank the following supporters  
for their contributions to the  
2017 AAFS 69<sup>th</sup> Annual Scientific Meeting:**

**Aegis Sciences Corporation**

**Agilent Technologies, Inc.**

**Anthropology Section**

**Criminalistics Section**

**Engineering Sciences Section**

**Fredric Rieders Family Foundation**

**General Section**

**Immunoanalysis Corporation**

**Jurisprudence Section**

**Leica Microsystems, Inc.**

**Lipomed, Inc.**

**Methodist University**

**Odontology Section**

**Pathology/Biology Section**

**Sirchie**

**Vashaw Scientific, Inc.**



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# CALENDAR OF EVENTS

## AAFS 69<sup>th</sup> Annual Scientific Meeting

### Calendar of Events

#### Saturday, February 11, 2017

8:00 a.m.	-	5:00 p.m.	American Board of Criminalistics (ABC) Board of Directors
8:00 a.m.	-	5:00 p.m.	ABC Examination Committee
8:00 a.m.	-	5:15 p.m.	United States Army CID Criminalistics Committee
8:30 a.m.	-	5:00 p.m.	ASTM E30 Forensic Sciences
8:30 a.m.	-	5:00 p.m.	ASTM E30.12 Digital and Multimedia Evidence
9:00 a.m.	-	5:00 p.m.	Forensic Specialties Accreditation Board (FSAB) Annual Meeting
9:00 a.m.	-	5:00 p.m.	National Association of Medical Examiners (NAME) ANAB ISO/IEC 17020 Lead Assessor Training (Day 1)

#### Sunday, February 12, 2017

8:00 a.m.	-	5:00 p.m.	Forensic Science Education Programs Accreditation Commission (FEPAC) Business Meeting
8:00 a.m.	-	5:00 p.m.	ABC Board of Directors
8:00 a.m.	-	5:00 p.m.	ABC Examination Committee
8:00 a.m.	-	5:00 p.m.	ABFO Expert Witness Testimony Workshop
8:00 a.m.	-	5:00 p.m.	ASTM E30 Forensic Sciences
8:00 a.m.	-	5:00 p.m.	United States Army CID Criminalistics Committee
9:00 a.m.	-	12:00 p.m.	National Safety Council (NSC) Executive Board
9:00 a.m.	-	5:00 p.m.	Forensic Specialties Accreditation Board
9:00 a.m.	-	5:00 p.m.	International Association of Coroners & Medical Examiners (IAC&ME) Executive Board
9:00 a.m.	-	5:00 p.m.	NAME ANAB ISO/IEC 17020 Lead Assessor Training (Day 2)
1:00 p.m.	-	5:00 p.m.	AAFS REGISTRATION OPEN
1:00 p.m.	-	5:00 p.m.	NSC Alcohol, Drugs and Impairment Division (ADID) Annual Meeting
1:00 p.m.	-	6:00 p.m.	AAFS Cyber Cafe
1:00 p.m.	-	6:00 p.m.	AAFS Speaker Ready Room

#### Monday, February 13, 2017

6:00 a.m.	-	6:00 p.m.	AAFS Speaker Ready Room
6:00 a.m.	-	7:00 p.m.	American Board of Forensic Anthropology (ABFA) Annual Board Certification Examination
6:45 a.m.	-	5:00 p.m.	AAFS REGISTRATION OPEN
7:00 a.m.	-	8:30 a.m.	Breakfast #1: <i>The Mummies of Central New York — A Unique Experience for a Medical Examiner's Office (Pre-Registration Required)</i>
7:00 a.m.	-	6:00 p.m.	AAFS Cyber Cafe
7:00 a.m.	-	11:00 p.m.	Press Room
8:00 a.m.	-	10:00 a.m.	National Institute of Standards and Technology (NIST) Organization of Scientific Area Committees (OSAC) – Digital/Multimedia Scientific Area Committee Public Status Reports & Open Discussion
8:00 a.m.	-	12:00 p.m.	Academy Standards Board (ASB) Board of Directors
8:00 a.m.	-	5:00 p.m.	AAFS Board of Directors





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## CALENDAR OF EVENTS

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8:30 a.m.	- 12:30 p.m.	Workshop #1: <i>Behind the Curtain: Understanding the Basic Science and Testimony of Latent Prints (Pre-Registration Required)</i>
8:30 a.m.	- 4:30 p.m.	Workshop #2: <i>A Computational Framework for Skeletal Age-at-Death Estimation Using Laser Scans of the Adult Pubic Symphysis: Theory, Methods, and Software (Pre-Registration Required)</i>
8:30 a.m.	- 5:00 p.m.	Workshop #3: <i>Shooting Reconstruction (Pre-Registration Required)</i>
8:30 a.m.	- 5:00 p.m.	Workshop #4: <i>Sex-Related Homicide and Death Investigations: Practical and Clinical Perspectives — The Significance of Pornography, Sexual Deviance, Autoerotic Fatalities, Signature and Modus Operandi (M.O.) in Serial Murder Investigation and Criminal Investigative Analysis (Pre-Registration Required)</i>
8:30 a.m.	- 5:00 p.m.	Workshop #5: <i>The Opioid Epidemic: Trends, Challenges, and a Path Forward (Pre-Registration Required)</i>
8:30 a.m.	- 5:00 p.m.	Workshop #6: <i>Taking a Bite Out of Crime and Other Hairy Situations (Pre-Registration Required)</i>
8:30 a.m.	- 5:00 p.m.	Workshop #7: <i>How to Manage the Multidisciplinary Response to a Mass Fatality Event (Pre-Registration Required)</i>
8:30 a.m.	- 5:30 p.m.	Workshop #8: <i>Applications of Hair Testing in Toxicology: Legal, Technical, and Medical Challenges (Pre-Registration Required)</i>
8:30 a.m.	- 5:30 p.m.	Workshop #9: <i>Staged Crime Scenes: Crime Scene Clues to Suspect Misdirection of the Investigation (Pre-Registration Required)</i>
8:30 a.m.	- 5:45 p.m.	Workshop #10: <i>Child Abuse: A Multidisciplinary Approach (Pre-Registration Required)</i>
8:30 a.m.	- 6:00 p.m.	Workshop #11: <i>Extreme Violence in the Military: Multiple Case Studies and the Exploration of Murder, Rape, and Cold Cases in the United States Military (Pre-Registration Required)</i>
8:30 a.m.	- 6:00 p.m.	Workshop #12: <i>Forensic Digital Multimedia: Enhancement and Authentication (Pre-Registration Required)</i>
9:00 a.m.	- 11:00 a.m.	ABFO Bitemark Committee
9:00 a.m.	- 12:00 p.m.	Workshop #13: <i>Forensics and Social Media: The Intersection of Education, Personal Promotion, and Professionalism (Pre-Registration Required)</i>
9:00 a.m.	- 1:30 p.m.	Workshop #14: <i>Retinal Hemorrhages (RHs) Associated With Pediatric Abusive and Non-Abusive Head Injury — Systematic Reviews and Their Evidence Base: A Review (Pre-Registration Required)</i>
9:00 a.m.	- 5:00 p.m.	IAC&ME Executive Board
10:15 a.m.	- 12:00 p.m.	NIST OSAC – Biology/DNA Scientific Area Committee Public Status Reports & Open Discussion
1:00 p.m.	- 5:00 p.m.	NIST OSAC – Crime Scene/Death Investigation Scientific Area Committee Public Status Reports & Open Discussion
1:00 p.m.	- 5:30 p.m.	Workshop #15: <i>Considerations for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis (Pre-Registration Required)</i>
3:00 p.m.	- 5:00 p.m.	NAME Journal Editorial Board
3:00 p.m.	- 7:00 p.m.	ASB Consensus Bodies Meeting
5:00 p.m.	- 6:00 p.m.	Consortium of Forensic Science Organizations (CFSO) Legislative Update Presentation <i>(Open to All Meeting Attendees)</i>
5:00 p.m.	- 8:00 p.m.	ABFO Combined Executive Committee and Board of Directors
6:00 p.m.	- 10:00 p.m.	NAME Inspection and Accreditation Training
6:00 p.m.	- 11:00 p.m.	NAME Executive Committee
7:00 p.m.	- 8:30 p.m.	International Attendee Welcome Reception <i>(by Invitation Only)</i>
8:00 p.m.	- 10:45 p.m.	ABFO Diplomates Annual Meeting

### Tuesday, February 14, 2017

6:00 a.m.	- 6:00 p.m.	AAFS Speaker Ready Room
6:45 a.m.	- 6:00 p.m.	AAFS REGISTRATION OPEN



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## CALENDAR OF EVENTS

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7:00 a.m.	-	8:00 a.m.	NAME Foundation Board of Trustee
7:00 a.m.	-	8:30 a.m.	Breakfast #2: <i>Analysis of Black-and-White Documents — Seeing Beyond the Monochrome (Pre-Registration Required)</i>
7:00 a.m.	-	9:00 a.m.	Toxicology Section Steering Committee
7:00 a.m.	-	3:00 p.m.	International Board of Forensic Engineering Sciences (IBFES) Oral Examinations
7:00 a.m.	-	5:30 p.m.	47 <sup>th</sup> Annual Scientific Session of the American Society of Forensic Odontology (ASFO)
7:00 a.m.	-	6:00 p.m.	AAFS Cyber Cafe
7:00 a.m.	-	11:00 p.m.	Press Room
7:30 a.m.	-	9:30 a.m.	Forensic Sciences Foundation (FSF) Board of Trustees
7:30 a.m.	-	9:45 p.m.	International Board of Forensic Engineering Sciences (IBFES) Board of Directors
8:00 a.m.	-	12:00 p.m.	American Board of Forensic Toxicology (ABFT) Certification Examination
8:00 a.m.	-	12:00 p.m.	NAME Board of Directors
8:00 a.m.	-	5:00 p.m.	CFISO Board ( <i>Not Open to the Public</i> )
8:30 a.m.	-	12:00 p.m.	Workshop #16: <i>The AAFS Humanitarian and Human Rights Resource Center: Year Two (Pre-Registration Required)</i>
8:30 a.m.	-	12:00 p.m.	NIST OSAC – Physics/Pattern Interpretation Scientific Area Committee Public Status Reports & Open Discussion
8:30 a.m.	-	12:15 p.m.	Special Session #1: <i>Interdisciplinary Symposium - The Evolution of Daubert and Its Effects on the Forensic Sciences (Pre-Registration Required)</i>
8:30 a.m.	-	12:30 p.m.	Workshop #17: <i>Communication Strategies to Mitigate Bias and Strengthen Scientific Foundations in Forensic Science (Pre-Registration Required)</i>
8:30 a.m.	-	12:30 p.m.	Workshop #18: <i>The Opiate Crisis, Dirty Bombs, Big Data/Big Problems, and Driverless Cars: On the Leading Edge of Forensic Science — 2017 Theoretical Forensic Sciences “Think Tank” (Pre-Registration Required)</i>
8:30 a.m.	-	12:45 p.m.	FEPAC: Accreditation of Forensic Science Academic Programs Through the AAFS
8:30 a.m.	-	12:55 p.m.	Workshop #19: <i>Women in the Sciences: Examining Systemic Barriers and Becoming Agents of Change (Pre-Registration Required)</i>
8:30 a.m.	-	4:30 p.m.	Workshop #20: <i>Instrumental Chromatographic Separation Techniques for Forensic Analyses: Application to the Analysis of Emerging Drugs (Pre-Registration Required)</i>
8:30 a.m.	-	4:30 p.m.	Workshop #21: <i>Forensic Photography and the Exposure Triangle: What Every Forensic Professional Should Know About ISO, Depth of Field (DOF), and Shutter Speed (SS) (Pre-Registration Required)</i>
8:30 a.m.	-	5:00 p.m.	Special Session #2: <i>Young Forensic Scientists Forum (YFSF) — What Shapes Our Future? Foundations and New Directions (Pre-Registration Required)</i>
8:30 a.m.	-	5:10 p.m.	2017 National Institute of Justice (NIJ) Forensic Science Research & Development Symposium
8:30 a.m.	-	5:30 p.m.	Workshop #22: <i>Viewing Research Through Different Lenses: How to Achieve Success in Court (Pre-Registration Required)</i>
9:00 a.m.	-	10:30 a.m.	AAFS 2017 Annual Meeting Program Committee Review and Breakfast
9:00 a.m.	-	2:00 p.m.	AAFS Student Academy
9:00 a.m.	-	4:00 p.m.	NAME 2017 Interim Scientific Program Registration
9:00 a.m.	-	5:00 p.m.	Workshop #23: <i>Fundamentals of Printing and Graphic Arts Examinations (Pre-Registration Required)</i>
10:00 a.m.	-	12:00 p.m.	Diversity, Inclusion, and Outreach Committee
12:00 p.m.	-	1:15 p.m.	Young Forensic Scientist Forum (YFSF) Luncheon (Pre-Registration Required)
12:00 p.m.	-	2:00 p.m.	AAFS 2016-17 Section Officers Luncheon and Meeting
12:00 p.m.	-	2:00 p.m.	47 <sup>th</sup> Annual Business Meeting and Luncheon of the ASFO
12:00 p.m.	-	2:30 p.m.	AAFS Long Term Planning Committee (LTPC)
12:55 p.m.	-	5:15 p.m.	NAME 2017 Interim Scientific Program
1:00 p.m.	-	5:00 p.m.	ABFT Board of Directors
1:00 p.m.	-	5:00 p.m.	NIST OSAC – Chemistry/Instrumental Analysis Scientific Area Committee Public Status Reports & Open Discussion

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# CALENDAR OF EVENTS

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1:30 p.m.	-	3:00 p.m.	FEPAC Program Directors
1:30 p.m.	-	4:30 p.m.	Workshop #24: <i>Navigating the Sea of Resources for Sexual Assault Programs (Pre-Registration Required)</i>
3:00 p.m.	-	4:30 p.m.	IBFES Board of Directors
4:00 p.m.	-	11:00 p.m.	American Board of Forensic Anthropology (ABFA) Board of Directors
4:30 p.m.	-	9:45 p.m.	IBFES Membership Meeting
5:30 p.m.	-	7:30 p.m.	Society of Forensic Anthropologists (SOFA) Board
6:00 p.m.	-	8:00 p.m.	Employment Forum
6:00 p.m.	-	8:00 p.m.	AAFS Welcoming Reception
7:00 p.m.	-	8:00 p.m.	YFSF Bring Your Own Posters
8:00 p.m.	-	10:00 p.m.	Diversity and Inclusion in Forensic Sciences Reception
8:00 p.m.	-	10:00 p.m.	Evening Session: The Last Lecture ( <i>Open to all Meeting Attendees</i> )

## Wednesday, February 15, 2017

6:00 a.m.	-	6:00 p.m.	AAFS Speaker Ready Room
6:30 a.m.	-	9:00 a.m.	Taylor & Francis Forensic Science Policy & Management Meeting
6:45 a.m.	-	5:00 p.m.	AAFS REGISTRATION OPEN
7:00 a.m.	-	12:00 p.m.	ABC Certification Examination
7:00 a.m.	-	12:00 p.m.	Society of Forensic Toxicologists (SOFT) Board of Directors Interim Meeting
7:00 a.m.	-	6:00 p.m.	AAFS Cyber Cafe
7:00 a.m.	-	11:00 p.m.	Press Room
7:30 a.m.	-	9:00 a.m.	AAFS Government Relations Committee
8:00 a.m.	-	8:45 a.m.	AAFS ACADEMY CUP
8:00 a.m.	-	12:00 p.m.	International Registry of Taphonomy
8:30 a.m.	-	11:30 a.m.	American Dental Association (ADA) OSAC Forensic Odontology Taskforce
9:00 a.m.	-	11:05 a.m.	AAFS PLENARY SESSION
10:00 a.m.	-	11:00 a.m.	International Affairs Committee
11:00 a.m.	-	12:00 p.m.	Theoretical Forensic Sciences “Think Tank” Committee
11:00 a.m.	-	12:00 p.m.	AAFS Membership Application “How To” Session
11:30 a.m.	-	1:00 p.m.	Poster Sessions – Anthropology, Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Psychiatry & Behavioral Science, Questioned Documents
<i>Posters will be available for viewing from 10:00 a.m. – 1:00 p.m. Presenting authors will be available for discussion from 11:30 a.m. – 1:00 p.m.</i>			
11:30 a.m.	-	4:00 p.m.	EXHIBITS OPEN
12:00 p.m.	-	1:00 p.m.	Criminalistics Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:00 p.m.	SOFT Drug Facilitated Crimes (DFC) Committee
12:00 p.m.	-	1:15 p.m.	General Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:30 p.m.	Pathology/Biology Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:45 p.m.	Digital & Multimedia Sciences Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:45 p.m.	Jurisprudence Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:45 p.m.	Psychiatry & Behavioral Science Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:45 p.m.	Toxicology Section Luncheon ( <i>Pre-Registration Required</i> )
12:00 p.m.	-	1:45 p.m.	Odontology Section Executive Committee Luncheon
12:30 p.m.	-	1:30 p.m.	ABFA Diplomates
1:00 p.m.	-	2:00 p.m.	AAFS Abstract Submission “How To” Session
1:05 p.m.	-	3:45 p.m.	Criminalistics Section Business Meeting
1:30 p.m.	-	3:45 p.m.	Engineering Sciences Section Business Meeting
1:30 p.m.	-	3:45 p.m.	General Section Business Meeting

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# CALENDAR OF EVENTS

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1:45 p.m.	-	3:45 p.m.	Pathology/Biology Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Anthropology Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Digital & Multimedia Sciences Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Jurisprudence Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Psychiatry & Behavioral Science Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Toxicology Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Odontology Section Business Meeting
2:00 p.m.	-	3:45 p.m.	Questioned Documents Section Business Meeting
3:00 p.m.	-	4:30 p.m.	International Board of Forensic Engineering Sciences (IBFES) Board of Directors
4:15 p.m.	-	5:30 p.m.	AAFS ANNUAL BUSINESS MEETING & AWARDS CEREMONY
5:30 p.m.	-	7:30 p.m.	SOFA General Membership Meeting
6:00 p.m.	-	7:00 p.m.	Psychiatry & Behavioral Science Section Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	7:00 p.m.	YFSF Bring Your Own Slides
6:00 p.m.	-	8:00 p.m.	Criminalistics Section Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Engineering Sciences Section Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Jurisprudence Sections Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Odontology –ASFO Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Pathology/Biology Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Questioned Documents Reception ( <i>by Invitation Only</i> )
6:00 p.m.	-	8:00 p.m.	Promega Genetic Identity Reception
6:00 p.m.	-	9:00 p.m.	John Jay College on the Road — AAFS Alumni Reception
6:30 p.m.	-	7:30 p.m.	Toxicology Awardees Recognition & Reception ( <i>by Invitation Only</i> )
6:30 p.m.	-	8:00 p.m.	General Section Reception ( <i>by Invitation Only</i> )
6:30 p.m.	-	8:00 p.m.	Boston University School of Medicine Alumni and Student Reception
7:00 p.m.	-	8:30 p.m.	Digital & Multimedia Sciences Section Reception ( <i>by Invitation Only</i> )
7:00 p.m.	-	9:00 p.m.	Duquesne University MS-FSL Reception
7:00 p.m.	-	9:00 p.m.	The George Washington University Forensic Sciences Alumni Reception
7:00 p.m.	-	9:00 p.m.	Marshall University Forensic Science Alumni Reception
7:30 p.m.	-	9:00 p.m.	Toxicology Section Poster Session
8:00 p.m.	-	10:00 p.m.	Bring Your Own Slides (BYOS)
8:00 p.m.	-	10:00 p.m.	Sam Houston State University Alumni and Student Reception
8:00 p.m.	-	10:00 p.m.	University of New Haven Student and Alumni Reception
8:00 p.m.	-	10:00 p.m.	Virginia Commonwealth University Alumni and Student Reception

## Thursday, February 16, 2017

6:00 a.m.	-	6:00 p.m.	AAFS Speaker Ready Room
6:45 a.m.	-	5:00 p.m.	AAFS REGISTRATION OPEN
7:00 a.m.	-	8:30 a.m.	Breakfast #3: <i>Reliving the Jeffrey Dahmer Case 25 Years Later (Pre-Registration Required)</i>
7:00 a.m.	-	10:00 a.m.	YFSF Annual Breakfast (Pre-Registration Required)
7:00 a.m.	-	6:00 p.m.	AAFS Cyber Cafe
7:00 a.m.	-	11:00 p.m.	Press Room
7:30 a.m.	-	8:00 a.m.	AAFS Moderators “How To” Preview
7:30 a.m.	-	9:00 a.m.	AAFS Policy and Procedure Committee
8:30 a.m.	-	9:30 a.m.	AAFS Student Affiliate Part-Time Status Ad Hoc Committee
9:00 a.m.	-	11:30 a.m.	Council of Federal Forensic Laboratory Directors (CFFLD)
9:00 a.m.	-	2:00 p.m.	EXHIBITS OPEN
11:00 a.m.	-	12:30 p.m.	Membership Reference Committee Training



# CALENDAR OF EVENTS

## Scientific Sessions – Morning

8:30 a.m.	- 11:30 p.m.	Odontology
8:30 a.m.	- 11:45 a.m.	Anthropology
8:30 a.m.	- 11:45 p.m.	Jurisprudence
8:30 a.m.	- 12:00 p.m.	Criminalistics Session I
8:30 a.m.	- 12:00 p.m.	Engineering Sciences
8:30 a.m.	- 12:00 p.m.	General
8:30 a.m.	- 12:00 p.m.	Psychiatry & Behavioral Science
8:30 a.m.	- 12:00 p.m.	Toxicology
8:30 a.m.	- 12:05 p.m.	Criminalistics Session II
8:30 a.m.	- 12:05 p.m.	Digital & Multimedia Sciences
8:30 a.m.	- 12:15 p.m.	Pathology/Biology Session I
9:00 a.m.	- 11:40 a.m.	Questioned Documents
9:00 a.m.	- 11:50 a.m.	Pathology/Biology Session II
11:30 a.m.	- 1:00 p.m.	Poster Sessions – Anthropology, Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Psychiatry & Behavioral Science, Questioned Documents

*Posters will be available for viewing from 10:00 a.m. – 1:00 p.m. Presenting authors will be available for discussion from 11:30 a.m. – 1:00 p.m.*

## Scientific Sessions – Afternoon

1:00 p.m.	- 4:30 p.m.	Odontology
1:00 p.m.	- 4:50 p.m.	Jurisprudence
1:00 p.m.	- 5:00 p.m.	General
1:00 p.m.	- 5:00 p.m.	Psychiatry & Behavioral Science
1:00 p.m.	- 5:00 p.m.	Toxicology
1:00 p.m.	- 5:30 p.m.	Criminalistics Session I
1:00 p.m.	- 5:30 p.m.	Engineering Sciences
1:05 p.m.	- 5:30 p.m.	Criminalistics Session II
1:15 p.m.	- 4:30 p.m.	Anthropology
1:25 p.m.	- 5:05 p.m.	Digital & Multimedia Sciences
1:30 p.m.	- 4:25 p.m.	Questioned Documents
1:30 p.m.	- 5:00 p.m.	Pathology/Biology Session I
2:00 p.m.	- 3:50 p.m.	Pathology/Biology Session II
12:00 p.m.	- 1:00 p.m.	SOFT/AAFS Drugs & Driving Committee
12:00 p.m.	- 1:30 p.m.	<i>Journal of Forensic Sciences</i> Editors' Wine & Cheese Luncheon
12:00 p.m.	- 1:30 p.m.	Luncheon #1: <i>Murder on Campus — Understanding the Critical Incident and Forensic Response to a Targeted Murder on a College Campus (Pre-Registration Required)</i>
12:00 p.m.	- 2:00 p.m.	ABFO Combined Executive Committee and Board of Directors
1:00 p.m.	- 2:00 p.m.	AAFS International Educational Outreach Program (IEOP) 2018 - Cuba
2:00 p.m.	- 3:00 p.m.	AAFS Finance Committee
3:30 p.m.	- 5:30 p.m.	AAFS Exhibitor Liaison Committee & Reception
5:30 p.m.	- 7:00 p.m.	Anthropology – Ellis R. Kerley Forensic Sciences Foundation Reception ( <i>by Invitation Only</i> )
6:00 p.m.	- 8:00 p.m.	University Fair
6:00 p.m.	- 8:00 p.m.	AAFS 69 <sup>th</sup> Annual Wine & Cheese Reception
6:30 p.m.	- 8:30 p.m.	Kenyon International Reception
7:00 p.m.	- 9:00 p.m.	Toxicology Open Forum
7:00 p.m.	- 9:00 p.m.	Fire Debris Discussion Group
8:00 p.m.	- 10:00 p.m.	Last Word Society
8:15 p.m.	- 10:15 p.m.	Council of Forensic Science Educators (COFSE)





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# CALENDAR OF EVENTS

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## Friday, February 17, 2017

6:00 a.m.	-	6:00 p.m.	AAFS Speaker Ready Room
6:45 a.m.	-	4:00 p.m.	AAFS REGISTRATION OPEN
7:00 a.m.	-	8:30 a.m.	Breakfast #4: <i>Cold Cases: An Exploratory Study of the Status of Unresolved Homicides in the United States (Pre-Registration Required)</i>
7:00 a.m.	-	4:00 p.m.	AAFS Cyber Cafe
7:00 a.m.	-	11:00 p.m.	Press Room
8:00 a.m.	-	9:15 a.m.	AAFS 2017-18 Nominating Committee

### Scientific Sessions – Morning

8:30 a.m.	-	11:45 a.m.	Anthropology
8:30 a.m.	-	11:45 p.m.	Psychiatry & Behavioral Science
8:30 a.m.	-	12:00 p.m.	Criminalistics Session I
8:30 a.m.	-	12:00 p.m.	General Session I
8:30 a.m.	-	12:00 p.m.	Jurisprudence Session I
8:30 a.m.	-	12:00 p.m.	Odontology
8:30 a.m.	-	12:00 p.m.	Pathology/Biology Session I
8:30 a.m.	-	12:00 p.m.	Multidisciplinary Session: Pathology/Biology Session II/Toxicology
8:30 a.m.	-	12:05 p.m.	Criminalistics Session II
8:30 a.m.	-	12:05 p.m.	Digital & Multimedia Sciences
8:30 a.m.	-	12:45 p.m.	Engineering Sciences
8:45 a.m.	-	11:30 a.m.	Questioned Documents
9:00 a.m.	-	10:00 a.m.	AAFS 2017-18 Section Officers
9:00 a.m.	-	1:00 p.m.	EXHIBITS OPEN
10:00 a.m.	-	10:30 a.m.	AAFS Continuing Education Committee
10:30 a.m.	-	11:30 a.m.	AAFS 2017-18 Program Committee
11:30 a.m.	-	1:00 p.m.	Poster Sessions – Anthropology, Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Psychiatry & Behavioral Science, Questioned Documents

*Posters will be available for viewing from 10:00 a.m. – 1:00 p.m. Presenting authors will be available for discussion from 11:30 a.m. – 1:00 p.m.*

### Scientific Sessions – Afternoon

1:00 p.m.	-	4:15 p.m.	Jurisprudence Session I
1:00 p.m.	-	4:55 p.m.	Multidisciplinary Session: Jurisprudence Session II/Questioned Documents Session
1:00 p.m.	-	5:00 p.m.	General Session I
1:00 p.m.	-	5:00 p.m.	Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy
1:00 p.m.	-	5:00 p.m.	Psychiatry & Behavioral Science
1:00 p.m.	-	5:00 p.m.	Toxicology
1:00 p.m.	-	5:15 p.m.	Criminalistics Session I
1:05 p.m.	-	5:05 p.m.	Criminalistics Session II
1:15 p.m.	-	5:00 p.m.	Anthropology
1:25 p.m.	-	3:30 p.m.	Digital & Multimedia Sciences
1:30 p.m.	-	3:15 p.m.	Anthropology Session III: Special Session — International Association of Forensic Sciences (IAFS)
1:30 p.m.	-	4:45 p.m.	Odontology





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# CALENDAR OF EVENTS

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12:00 p.m. - 1:30 p.m. AAFS Past Presidents Council Luncheon  
5:30 p.m. - 7:30 p.m. Illumina 4<sup>th</sup> Annual User Symposium  
7:00 p.m. - 9:00 p.m. Criminalistics Evening Session: Criminalistics Believe It or Not!

## Saturday, February 18, 2017

6:00 a.m. - 12:00 p.m. AAFS Speaker Ready Room  
7:00 a.m. - 9:30 a.m. AAFS 2017-18 Board of Directors  
7:30 a.m. - 9:30 a.m. AAFS REGISTRATION OPEN  
8:00 a.m. - 5:00 p.m. American Board of Forensic Odontology (ABFO) Age Estimation Workshop

### Scientific Sessions – Morning

8:00 a.m. - 12:00 p.m. Anthropology  
8:30 a.m. - 11:40 a.m. Criminalistics Session II  
8:30 a.m. - 11:40 a.m. Psychiatry & Behavioral Science  
8:30 a.m. - 12:00 p.m. Criminalistics Session I  
8:30 a.m. - 12:00 p.m. Pathology/Biology



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# STUDENT ACADEMY

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*Pre-Registration Required — \$15*

## Tuesday

February 14, 2017

9:00 a.m. - 2:00 p.m.

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The purpose of the Student Academy of Forensic Sciences is to bring to the attention of local area high school and college 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. All high school and college-age students are welcome to attend.

*Chair:*

**Julie A. Howe, MBA**  
Saint Louis University  
St. Louis, MO

*Co-Chair:*

**Marilyn T. Miller, EdD**  
VA Commonwealth University  
Richmond, VA

*Faculty:*

*Anthropology:*

**Elizabeth A. Murray, PhD**  
College of Mount St. Joseph  
Cincinnati, OH

*Odontology:*

**Robin A. Scheper, DDS**  
Wildwood, NJ

*Criminalistics:*

**Lynn A. Schneeweis, MS**  
Massachusetts State Police Crime Laboratory  
Maynard, MA

*Pathology/Biology:*

**J.C. Upshaw Downs, MD**  
GBI Medical Examiner's Office  
Savannah, GA

*Digital & Multimedia Sciences:*

**Richard W. Vorder Bruegge, PhD**  
Federal Bureau of Investigation  
Quantico, VA

*Psychiatry & Behavioral Science:*

**Dean DeCrisce, MD**  
Special Treatment Unit  
Avenel, NJ

*Engineering Sciences:*

**Roy Crawford, BSME**  
RR Crawford Engineering, Inc.  
Whitesburg, KY

*Questioned Documents:*

**Sandra L. Miller, BS**  
Pennsylvania State Police  
Harrisburg, PA

*General:*

**Claire E. Shepard, MS**  
La Delta Community College  
Monroe, LA

*Toxicology:*

**George F. Jackson, PhD**  
AFMES/Division of Forensic Toxicology  
Willingboro, NJ

*Jurisprudence:*

**Pamela A.W. King, JD**  
Minnesota State Public Defender Office  
Rochester, MN

**Ashraf Mozayani, PhD**  
Texas Southern University  
Houston, TX

# INTERDISCIPLINARY SYMPOSIUM



*Pre-Registration Required — \$50*

## **S1 The Evolution of *Daubert* and Its Effects on the Forensic Sciences**

**Tuesday, February 14, 2017 — 8:30 a.m. - 12:15 p.m.**

**3.5 CE Hours**

*Chair:*

**Marla E. Carroll, BS**

Forensic Video & Audio Associates, Inc.  
Plantation, FL

*Faculty:*

**Stephanie Domitrovich, JD, PhD**

Sixth Judicial District of PA  
Erie, PA

**Stephen Goudge, LLB**

Paliare Roland Barristers  
Toronto, ON, CANADA

**Neal H. Haskell, PhD**

Rensselaer, IN

**John J. Lentini, BA**

Scientific Fire Analysis, LLC  
Islamorada, FL

**Joseph J. Maltese, JD, PhD**

New York Supreme Court, Appellate Division  
Staten Island, NY

*Co-Chair:*

**Linton Mohammed, PhD**

Forensic Science Consultants, Inc.  
Burlingame, CA

**Mara L. Merlino, PhD**

Frankfort, KY

**W. Milton Nuzum, JD**

Columbus, OH

**Barry C. Scheck, JD**

The Innocence Project  
New York, NY

**Peter V. Tytell, BA**

Forensic Research, LLC  
New York, NY

**Educational Objective(s):** After attending this presentation, attendees will better understand how forensic science practitioners have addressed the evolution of *Daubert* and the reaction of the legal community as the standard has progressed. Attendees will be exposed to the challenges faced by forensic scientists and the research that is addressing criticisms. Furthermore, the Interdisciplinary Symposium will help attendees understand how the courts understand *Daubert* and how they address the admissibility of forensic practitioners and science.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by discussing the past, present, and future ramifications of the *Daubert* Trilogy on the admissibility of forensic evidence from the viewpoint of practitioners, attorneys, educators, and judges.

**Program Description:** The 2017 American Academy of Forensic Sciences Interdisciplinary Symposium program will help forensic scientists gain insight into the evolution of the current standards for admissibility of scientific evidence and expert testimony, the evolution of its application in the courts, and the effects of the National Academy of Sciences (NAS) Report on the presentation of scientific and opinion evidence.



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# INTERDISCIPLINARY SYMPOSIUM

*Pre-Registration Required — \$50*

## S1 The Evolution of *Daubert* and Its Effects on the Forensic Sciences (continued)

### **Stephanie Domitrovich, JD, PhD; W. Milton Nuzum, JD**

The American Bar Association (ABA) recently adopted a Resolution wherein the ABA urges the National Commission on Forensic Science to support the development of a model curriculum in the law and forensic science as well as training in that curriculum for federal, state, territorial, and tribal judges. The NAS recommended: “Better connections must be established and promoted between experts in the forensic science disciplines and law schools, legal scholars, and practitioners.” Specifically, the NAS Report further indicated: “And judges need to be better educated in forensic science methodologies and practices.” Consistent with these recommendations, presenters in this session will discuss the evolving developments in judicial education over the years in providing state and federal trial judges the necessary tools for their tool boxes to become better equipped to understand forensic scientific evidence issues in both *Daubert* and *Frye* jurisdictions. Judicial educators will discuss the design of such curricula to teach state and federal trial judges to become more competent gatekeepers when deciding scientific issues in all areas, for instance, civil, criminal, family, and orphans’ court. Judicial educators will also discuss implementing needs assessments, curricula development, and adult education principles as their latest tools in education theories to accomplish these goals.

### **Stephen T. Goudge, LLB**

This presentation will address the public inquiry Judge Goudge chaired into Pediatric Forensic Pathology in Ontario. The Inquiry was created by the government of Ontario because unreliable opinion evidence from this science had resulted in a number of wrongful convictions. In his report, Judge Goudge addressed the challenge of unreliable scientific opinion evidence and how the justice system could guard against it.

### **Neal H. Haskell, PhD**

The science of Forensic Entomology (FE) has regularly entered the courtroom in the United States within the past three decades. At first, it was perceived as a “new and novel science” using insects to answer questions regarding a human death. During this time, the *Frye* test of acceptability in courts was the standard method of reliability. Only a handful of states had actually utilized FE in courts. This led to numerous challenges of its use in courts as more states sought use of FE, the gatekeepers being the justices on the bench.

As was explained to each new state where testimony was given, whether *Frye* or *Daubert*, FE is nothing more than proven and reliable entomological scientific principles dating back to 1265 China in a murder case. Forensic application of entomology is one of the oldest sciences to be used in the courtroom. In short, FE is the use of biological aspects of entomology encompassing insect biology, insect behavior, insect growth and development, insect ecology, interacting with climatology and environmental biology, all of which have been studied for centuries and are fully accepted in the biological sciences.

### **Peter V. Tytell, BA**

One practical change in post-*Daubert* courtrooms has been at the *voir dire* stage of an expert’s appearance. Previously, opposing counsel would challenge the specifics of the education, training, and experience of the witness in an effort to disqualify that individual as an expert in a certain discipline (or at least lessen the witness’s credibility in the eyes of the jury). Today, the challenge is often to the reliability of the discipline itself rather than the qualifications of the witness as a practitioner. It is increasingly likely that the *voir dire* will be conducted outside the presence of the jury, and that it will be essentially indistinguishable from a *Daubert* hearing in content and intent.

Today’s expert witness must be prepared not just to present the results of an examination and to explain the specifics of each of the findings, but must also be prepared to present the basis for the reliability of the discipline with specifics relating to each of the *Daubert* factors and the requirements of Rule 702. Of equal importance, today’s trial attorney must be prepared not just to present the facts

*Pre-Registration Required — \$50*

## **S1      The Evolution of *Daubert* and Its Effects on the Forensic Sciences (continued)**

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of a case, but must also be prepared to ask the right questions of the expert and to present *Daubert*-appropriate references, citations, and arguments. This presentation will illustrate these changes as they relate to forensic document examiners with case examples highlighting problems that can arise in these situations.

### **Joseph J. Maltese, JD, PhD**

The expansion of *Daubert* and *Kumho Tire* standards into the Federal Rules of Evidence, and their adoption by many state courts, have served as a catalyst for the criminal defense bar to challenge the reliability of the “specialized knowledge” utilized in most of the forensic disciplines. With greater scrutiny being applied by the courts, many forensic disciplines have attempted to validate or revalidate their methodology and procedures to withstand objections raised by attorneys and skeptical judges about the admissibility of such evidence, which was rarely subject to objection before the *Daubert* revolution. This presentation will address some of these issues.

### **Barry C. Scheck, JD**

As the National Commission on Forensic Science recently acknowledged in a views document, protecting against cognitive bias through blind examinations and sequential unmasking is critical to conducting sound science. Forensic scientists, lawyers (prosecutors and defense), judges, and police officials must all take simple, systematic precautions to minimize the effects of cognitive bias in their investigations, scientific testing, and assessments of evidence. Fashioning judicial remedies to enforce best practices plays an important role in this process.

### **Mara Merlino, PhD**

This presentation will discuss the issues faced by forensic practitioners as the various forensic disciplines work to articulate and standardize education, training, and other practices to ensure that valid and reliable evidence is produced in service to the justice system. The process of the social construction of scientific knowledge and the impact of legal requirements on scientific “facts” that cross the boundary of admissibility to become scientific “evidence” will be discussed in the context of *Daubert*, *Joiner*, and *Kumho* decisions.

### **John J. Lentini, BA**

While *Daubert* challenges are becoming more and more common in all expert disciplines, fire investigation seems to attract a significant number of them. The first *Daubert* challenge occurred in 1997, in the case of *Michigan Millers Mutual Ins. v. Janelle R. Benfield*, when a fire investigator with 40 years of experience was precluded from testifying because he could not articulate the scientific method, even though he claimed to have used it. However, in the same case, a firefighter was allowed to render an opinion based on his “experience.” Courts have ruled on hundreds of *Daubert* challenges, including the Supreme Court. Sometimes the court gets the science completely wrong, as the 10<sup>th</sup> circuit did in the case of *Truck Insurance Exchange, A Farmers Insurance Company v. Magnetek, Incorporated*. They arrived at the correct result, but in so doing, completely confused a lot of other courts.

The prevalence of *Daubert* challenges has led to a more general “Rule 702” challenge. In the past, challenges to fire investigators have focused mainly on methodology. There is a trend now toward challenging an investigator’s qualifications. After being unable to answer simple fire chemistry questions, an investigator is likely to be withdrawn and the case is likely to settle. Such cases will not result in new case law.

In fire cases, the *Daubert* challenge is now as common as motions for summary judgment. This presentation will discuss several important fire-related *Daubert* cases and what they portend for the future of fire investigation.



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# INTERDISCIPLINARY SYMPOSIUM

*Pre-Registration Required — \$50*

## S1 The Evolution of *Daubert* and Its Effects on the Forensic Sciences (continued)

**Program:**

- 8:30 a.m. - 8:35 a.m. Opening Remarks  
*Marla E. Carroll, BS*
- 8:35 a.m. - 9:05 a.m. Evolving Trends in Science Education for Judges Since *Daubert*  
*Stephanie Domitrovich, JD, PhD; W. Milton Nuzum, JD*
- 9:05 a.m. - 9:25 a.m. Lessons Learned About Unreliable Science: The Public Inquiry Into Pediatric Forensic Pathology in Ontario  
*Stephen Goudge, LLB*
- 9:25 a.m. - 9:45 a.m. Forensic Entomology: Meeting the Criteria for Acceptance in Court  
*Neal H. Haskell, PhD*
- 9:45 a.m. - 10:05 a.m. Evolution of Challenges to Forensic Document Examiners and Forensic Document Examination Since *Daubert*  
*Peter V. Tytell, BA*
- 10:05 a.m. - 10:20 a.m. Panel Discussion  
*Marla E. Carroll, BS; Linton Mohammed, PhD; Stephanie Domitrovich, JD, PhD; W. Milton Nuzum, JD; Stephen Goudge, LLB; Peter V. Tytell, BA*
- 10:20 a.m. - 10:35 a.m. Break
- 10:35 a.m. - 10:55 a.m. Admissibility of *Daubert*, *Frye*, and Other Admissibility Standards  
*Joseph J. Maltese, JD, PhD*
- 10:55 a.m. - 11:15 a.m. Why Failure to Protect Against Cognitive Bias Is an Issue for Admissibility and Curative Charges to a Jury  
*Barry C. Scheck, JD*
- 11:15 a.m. - 11:35 a.m. Cognitive Human Factors and the Social Construction of Forensic Expertise, Reliability, and Validity in the Post-*Daubert* Era  
*Mara L. Merlino, PhD*
- 11:35 a.m. - 11:55 a.m. *Daubert* Challenges to Fire Investigators  
*John J. Lentini, BA*
- 11:55 a.m. - 12:10 p.m. Panel Discussion  
*Marla E. Carroll, BS; Linton Mohammed, PhD; Joseph J. Maltese, JD, PhD; Barry C. Scheck, JD; Mara L. Merlino, PhD; John J. Lentini, BA*
- 12:10 p.m. - 12:15 p.m. Closing Remarks  
*Marla E. Carroll, BS; Linton Mohammed, PhD*





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# YOUNG FORENSIC SCIENTISTS FORUM

*Pre-Registration Required — \$100*

## S2 What Shapes Our Future? Foundations and New Directions

Tuesday, February 14, 2017 — 8:30 a.m. – 8:00 p.m.

6.25 CE Hours

*President:*

**Brianna B. Bermudez, BS**  
Michigan State University  
East Lansing, MI

*Secretary:*

**Jacob Griffin, BS**  
Danville, IA

### *Program Committee*

*Program Chair:*

**Amanda R. Hale, MA**  
North Carolina State University  
Raleigh, NC

*Program Co-Chair:*

**Brittany N. Beyer, MS**  
Houston Forensic Science Center  
Houston, TX

*BYOS Chair:*

**Betzaida L. Maldonado, MSFS**  
Decatur, GA

*YFSF Poster Session Chair:*

**Alicja K. Lanfear, PhD**  
Middle Tennessee State University  
Murfreesboro, TN

*Breakfast Chair:*

**Jeremy M. Manheim**  
Lafayette, IN

*Long Term Planning Committee Representative:*

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

*Financial Support Liaison Chair:*

**Kelsey A. Carpenter, MS**  
Mercyhurst University  
Erie, PA

**Educational Objective(s):** After attending this presentation, attendees will better understand the different forensic science disciplines as well as the current issues in the field of forensic science. Additionally, attendees will have the opportunity to listen to prominent scientists share their experiences, cases, and thoughts on the future directions of the field.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing a forum for young scientists to learn more about the field, share their ideas, and network with other professionals.

**Program Description:** The purpose of the Young Forensic Scientists Forum Special Session is to educate college students and young professionals about the exciting field of forensic science. In addition to the presentations given by Academy members, the session provides attendees with information regarding AAFS membership and mentorship opportunities. The Bring Your Own Slides and Bring Your Own Posters Sessions will give young scientists the opportunity to present their research, and the Breakfast Session will connect attendees with established professionals for résumé reviews and feedback.

The 2017 YFSF Special Session entitled, *What Shapes Our Future? Foundations and New Directions*, is a day-long session scheduled for Tuesday, February 14, 2017, that features speakers from many Academy sections. Topics will include current issues in various fields of forensic sciences, as well as forthcoming changes in these fields. Attendees will learn about Academy membership and will have the opportunity to build professional relationships through networking and mentorship. This special session will also showcase two Forensic Sciences Foundation, Inc. Emerging Forensic Scientist Award winners, who will be presenting their award-winning papers.



New Orleans  
2017

# YOUNG FORENSIC SCIENTISTS FORUM

*Pre-Registration Required — \$100*

## S2 What Shapes Our Future? Foundations and New Directions (continued)

### Speakers

**Eric Baccino, MD**  
Hopital Lapeyronie  
Montpellier, FRANCE

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

**Jason H. Byrd, PhD**  
University of Florida  
Maples Center for Forensic Medicine  
Gainesville, FL

**Joan A. Bytheway, PhD**  
Sam Houston State University  
College of Criminal Justice  
Huntsville, TX

**Eugenia Cunha, PhD**  
Universidade de Coimbra  
Department of Life Sciences,  
Forensic Anthropology Lab  
Coimbra, PORTUGAL

**Dean Michael De Crisce, MD**  
Special Treatment Unit  
Avenel, NJ

**Megan E. Grimes, MFS**  
Woodbridge, VA

**Cheryl D. Hunter**  
AAFS Staff  
Colorado Springs, CO

**Gulnaz T. Javan, PhD**  
Alabama State University  
Forensic Science Program  
Montgomery, AL

**Roderick T. Kennedy, JD**  
New Mexico Court of Appeals  
Albuquerque, NM

**Kimberly S. Kobjek, MS**  
Arizona State University - W Campus  
ASU New College  
Phoenix, AZ

**Barry K. Logan, PhD**  
NMS Labs/The Center for  
Forensic Science Research and Education  
Willow Grove, PA

**Nicolene Lottering, PhD**  
University of Adelaide  
Adelaide, AUSTRALIA

**Jeri D. Roper-Miller, PhD**  
RTI International  
Research Triangle Park, NC

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

**Lauren Traveller, DNP**  
Las Vegas, NV

**C. Ken Williams, MS, JD**  
NJSP Office of Forensic Sciences  
Central Regional Laboratory  
Hamilton, NJ

The Bring Your Own Posters (BYOP) and Bring Your Own Slides (BYOS) Sessions are two opportunities provided by the YFSF for students and young scientists to present their research. The BYOP Session will take place the evening of Tuesday, February 14, 2017, and the BYOS will be held on the evening of Wednesday, February 15, 2017. YFSF does not require presenters of YFSF BYOS and BYOP Sessions to be members of AAFS and does not require they attend the special session, but they are encouraged to do so. The program will conclude on Thursday, February 16, 2017, with the annual YFSF Breakfast Session which includes a résumé review panel. Attendees of the breakfast session must be registered for the YFSF Special Session.

### Program:

8:30 a.m. - 8:40 a.m.

2017 YFSF Introduction and Speaker Welcome  
*Brianna B. Bermudez, BS*

# YOUNG FORENSIC SCIENTISTS FORUM



New Orleans  
2017

*Pre-Registration Required — \$100*

## S2 What Shapes Our Future? Foundations and New Directions (continued)

### Program cont.:

8:40 a.m. - 8:50 a.m.	AAFS Membership <i>Cheryl D. Hunter</i>
8:50 a.m. - 9:10 a.m.	Research and Technology — A Formidable Pair Defining Our Foundations and Our Future <i>Jeri D. Roper-Miller, PhD</i>
9:10 a.m. - 9:30 a.m.	The Determination of Short (48-Hour) Postmortem Intervals <i>Eric Baccino, MD</i>
9:30 a.m. - 10:00 a.m.	The Issues and Challenges With Forensic DNA Analysis <i>John M. Butler, PhD</i>
10:00 a.m. - 10:15 a.m.	Break
10:15 a.m. - 10:35 a.m.	Veterinary Forensic Sciences: Applied Education and Opportunities for Young Forensic Scientists <i>Jason H. Byrd, PhD</i>
10:35 a.m. - 10:55 a.m.	New Challenges in Identification <i>Eugenia Cunha, PhD</i>
10:55 a.m. - 11:15 a.m.	The Contribution of Taphonomic Research to Forensic Casework <i>Joan A. Bytheway, PhD</i>
11:15 a.m. - 12:00 p.m.	Molecular Eyewitnesses: Extracting DNA From Multiple Criminal Evidence <i>Gulnaz T. Javan, PhD</i>
12:00 p.m. - 1:15 p.m.	Lunch
1:15 p.m. - 1:30 p.m.	Risk Factors in Adjudicative Incompetency: A Case Study <i>Lauren Traveller, DNP</i>
1:30 p.m. - 1:50 p.m.	Subadult Age Estimation: Contributions of Medical Imaging Modalities, 3D Visualization, and Computer-Aided Design (CAD) Applications to Improve Forensic Anthropology Standards <i>Nicolene Lottering, PhD</i>
1:50 p.m. - 2:10 p.m.	Public and Private Forensic Laboratories: Current Issues <i>Peter R. Stout, PhD</i>
2:10 p.m. - 2:40 p.m.	From Criminalist to Forensic Scientist: The Journey From “Believe It or Not” to Accreditation and Beyond <i>Kimberly S. Kobjek, MS</i>



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# YOUNG FORENSIC SCIENTISTS FORUM

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*Pre-Registration Required — \$100*

## **S2 What Shapes Our Future? Foundations and New Directions (continued)**

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**Program cont.:**

2:40 p.m. - 3:00 p.m.	Break
3:00 p.m. - 3:20 p.m.	The Visiting Scientist Program <i>Megan E. Grimes, MFS</i>
3:20 p.m. - 3:40 p.m.	Topics in Forensic Psychiatry <i>Dean Michael De Crisce, MD</i>
3:40 p.m. - 4:10 p.m.	Believability, Rules, and Staying Alive in Court <i>Roderick T. Kennedy, JD</i>
4:10 p.m. - 4:55 p.m.	Group Discussion <i>Amanda R. Hale, MA; Brittany N. Beyer, MS</i>
4:55 p.m. - 5:00 p.m.	Closing Remarks <i>Amanda R. Hale, MA; Brittany N. Beyer, MS</i>
7:00 p.m. - 8:00 p.m.	YFSF Poster Session



# YOUNG FORENSIC SCIENTISTS FORUM

*Pre-Registration Required — \$100*

## S2 What Shapes Our Future? Foundations and New Directions (continued)

### Wednesday

February 15, 2017 — 6:00 p.m. – 7:00 p.m.

### YFSF Bring Your Own Slides

### Thursday

#### Young Forensic Scientists Forum Annual Breakfast (Registration for the Tuesday Session Is Required to Attend the YFSF Breakfast Session)

February 16, 2017 — 7:00 a.m. – 10:00 a.m.

#### *Professionalism and Etiquette “Eggs-pectations”*

The Breakfast Session on Thursday morning will feature two speakers, followed by a Question and Answer Session. The theme for the Breakfast Session is *Professionalism and Etiquette “Eggs-pectations”* and will cover topics in courtroom conduct and testimony. Attendees will then have the opportunity to meet with established AAFS members and receive feedback on their résumés.

#### Program:

7:00 a.m.	-	7:30 a.m.	YFSF Breakfast
7:30 a.m.	-	8:00 a.m.	Courtroom Professionalism: Appropriate Courtroom Conduct <i>Barry K. Logan, PhD</i>
8:00 a.m.	-	8:30 a.m.	Wouldn't You Like to Know?!? <i>C. Ken Williams, MS, JD</i>
8:30 a.m.	-	9:00 a.m.	Questions and Answers <i>Barry K. Logan, PhD; C. Ken Williams, MS, JD</i>
9:00 a.m.	-	10:00 a.m.	Résumé Review Panel



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# FEPAC SESSION

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

## Accreditation of Forensic Science Academic Programs Through the AAFS Forensic Science Education Programs Commission

**Tuesday**

**February 14, 2017 — 8:30 a.m. - 12:45 p.m.**

**Educational Objectives:** 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. Attendees from academic programs will also learn about the process of accreditation from different perspectives.

*Chair:*  
**Matthew R. Wood, MS**  
Ocean County Sheriff's Department  
Forensic Science Laboratory  
Toms River, NJ

*Commissioner:*  
**Tracey Dawson Cruz, PhD**  
Virginia Commonwealth University  
Richmond, VA

*Commissioner:*  
**Daniel E. Katz, MFS**  
Maryland State Police  
Forensic Science Division  
Pikesville, MD

**Program Description:** This session has been developed to assist academic institutions offering undergraduate and graduate degree programs in forensic science and forensic digital evidence to prepare for the accreditation process through the Forensic Science Education Programs Commission (FEPAC). The 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).

The FEPAC is a standing committee of the AAFS with a membership that includes five educators, five forensic laboratory directors, 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: <http://fepac-edu.org>.

**Program:**

- 8:30 a.m. - 9:00 a.m. Introduction and Welcoming Remarks  
Module 1: Accreditation, Mission, and History of FEPAC  
*Matthew R. Wood, MS*
- 9:00 a.m. - 9:30 a.m. Module 2: Overview of FEPAC Process, Policies, and Procedures  
*Daniel E. Katz, MFS*
- 9:30 a.m. - 10:00 a.m. Module 3: Review of Undergraduate Standards  
*Tracey Dawson Cruz, PhD*
- 10:00 a.m. - 10:15 a.m. Break
- 10:15 a.m. - 10:45 a.m. Module 4: Review of Graduate Standards  
*Tracey Dawson Cruz, PhD*



# FEPAC SESSION



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

## **Accreditation of Forensic Science Academic Programs Through the AAFS Forensic Science Education Programs Commission (continued)**

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**Program cont.**

- 10:45 a.m. - 11:15 a.m.            Module 5: Questions and Answers  
*Matthew R. Wood, MS; Daniel E. Katz, MFS; Tracey Dawson Cruz, PhD*
- 11:15 a.m. - 11:45 a.m.            Module 6: The Role of the On-Site Evaluator  
*Daniel E. Katz, MFS*
- 11:45 a.m. - 12:15 p.m.            Module 7: Scenario and Evaluation  
*Matthew R. Wood, MS; Daniel E. Katz, MFS; Tracey Dawson Cruz, PhD*
- 12:15 p.m. - 12:45 p.m.            Questions and Answers  
*FEPAC Commissioners and Director of Accreditation*



New Orleans  
2017

## EVENING SESSION

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

### The Last Lecture

Tuesday, February 14, 2017 — 8:00 p.m. - 10:00 p.m.

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#### *Speakers*

*Chair:*

**Julie A. Howe, MBA**  
Saint Louis University  
Franklin, Jefferson, & St. Charles  
Medical Examiner's Offices  
St. Louis, MO

*Co-Chair:*

**Christine Funk, JD**  
Washington, DC

*Co-Chair:*

**Jan C. Garavaglia, MD**  
Burlington, WA

*Co-Chair:*

**John J. Lentini, BA**  
Scientific Fire Analysis, LLC  
Islamorada, FL

*Co-Chair:*

**Kenneth E. Melson, JD**  
George Washington University Law  
School  
Montclair, VA

*Co-Chair:*

**Katherine Ramsland, PhD**  
DeSales University  
Center Valley, PA

*Co-Chair:*

**Douglas H. Ubelaker, PhD**  
Smithsonian Institution  
Department of Anthropology  
Washington, DC

**Educational Objective(s):** After attending this presentation, attendees will gain insights relating to life and work from fellow Academy members.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing personal insights into the speakers' journeys throughout their personal and professional lives.

**Program Description:** Many times, professors are asked to give "last lectures" to provide guidance and advice to their students while inspiring them to achieve their dreams and take risks in both their personal and professional lives. Members of the Academy have been asked to share what they believe matters most in living a full and rewarding life, both personally and professionally.

In 2007, Randy Pausch famously presented "The Last Lecture" as the first in a lecture series entitled "Journeys." In these lectures, members of the Carnegie Mellon University community shared "their reflections and insights on their personal and professional journeys." Dying of pancreatic cancer, Randy Pausch brought down the house with his talk, "Really Achieving Your Childhood Dreams." This lecture has become infamous for the inspiration it instilled in everyone who has heard it.

In the spirit of this legacy, members of the Academy have been asked to share what they believe matters most in living a full and rewarding life, both personally and professionally, including their childhood dreams and inspirations, taking risks, overcoming obstacles, and the adventures and lessons learned along their journeys. The speakers reflect varying experiences and different walks of life. Share and learn from their joys, challenges, integrity, and recognition during this entertaining and educational session.

# EVENING SESSION



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

## The Last Lecture

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Jan Garvaglia, MD, is the retired chief medical examiner for the District Nine Medical Examiner Office in Orlando, FL. She is best known as the reality TV star “Dr. G” on the Discovery Network. The show, “*Dr. G: Medical Examiner,*” won an International Health and Medical Media Award for “Best Health Series” in 2008. Dr. G will share her personal story about the trials of being a forensic pathologist along with the pearls of the profession, while highlighting interesting cases and discussing how the reality-based TV series has impacted her life.

John Lentini, BA, is one of a handful of people certified to conduct both fire scene investigations and fire debris analysis. He has personally conducted more than 2,000 fire scene inspections and has appeared as an expert witness on more than 200 occasions. Mr. Lentini is an independent consultant, working with both prosecution and defense in pending cases and in cases involving the wrongfully convicted.

Ken Melson, JD, has had a long and lively career within the forensic community, serving as a federal prosecutor for more than 20 years. As Director of the Office for United States Attorneys, he was responsible for the oversight of the 94 United States Attorney’s Offices. He is a past president of the AAFS and has served on numerous committees. In April 2009, Mr. Melson was named Acting Director of the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) by President Obama, where he served until August 2011. Prior to retiring from the United States Department of Justice in 2012, Mr. Melson was the Senior Advisor on Forensic Science in the Office of Legal Policy and served as co-chair on the Subcommittee on Forensic Science within the Executive Office of the President.

Katherine Ramsland, PhD, is the Director of the Master of Arts in Criminal Justice Program at DeSales University. She also teaches forensic psychology. Dr. Ramsland is a prolific writer, with most of her attention focused on crime, forensics, and serial killers. She recently completed *Confession of a Serial Killer: The Untold Story of Dennis Rader, the BTK Killer*. However, she also authors such inspiring works as *Snap: Seizing your Aha! Moments*, focusing on “the latest neuroscience findings on spontaneous thought processes, or “snaps.”” Dr. Ramsland “describes how everyone—not just geniuses—can learn to improve the likelihood of their own “eureka” moments by adopting certain rewarding attitudes and habits.”

Douglas Ubelaker, PhD, is a curator and senior scientist at the Smithsonian Institution’s National Museum of Natural History in Washington, DC, where he serves as a consultant in forensic anthropology. Dr. Ubelaker has published extensively and has served on editorial boards of leading scientific journals. Dr. Ubelaker is regarded as one of the world’s leading anthropologists, receiving many international and national honors and awards throughout his esteemed career in the analysis of human skeletal remains with an emphasis on forensic applications. Dr. Ubelaker served as the AAFS President from 2011-12. Dr. Ubelaker works tirelessly on behalf of human rights internationally. He currently serves as Chair of the AAFS Human & Humanitarian Rights Resource Center, which promotes forensic science principles and applications to global projects requiring special assistance.



New Orleans  
2017

# PRE-PLenary — OPEN FORUM

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

## Wednesday

February 15, 2017 — 8:00 a.m. – 8:45 a.m.

### The Academy Cup

*A Quiz Game to Test Your Knowledge of AAFS*

The AAFS 2017 Academy Cup will take place on Wednesday, February 15, 2017, before the Plenary Session. Teams meet at 8:00 a.m., an hour before the Plenary Session, for instructions and team strategy. The game will start at 8:15 a.m. and consists of multiple-choice and true-or-false questions projected onto a screen to test each section's knowledge.

Each section's team is comprised of up to 11 members, including Past President/Past Vice President, Board Member and/or Officer, Chair, Secretary, YFSF volunteers, and the section leader's other strategic choices. The YFSF volunteers will be assigned to sections on Tuesday at the YFSF Special Session. Teams will have 15 minutes to answer questions. Once all sections have their answers turned in, the answers to the questions will be presented.

The winning team will be announced and the trophy presented at the AAFS Annual Business Meeting at 4:15 p.m. Teams should be present at the Annual Business Meeting to find out who won and be available at the conclusion to have a group photo taken.

If you just want to test your knowledge, the room is open for everyone. Feel free to join your section behind your flag to help cheer them on!



#### Points of Contact:

Chair: Laura L. Liptai, PhD;  
liptai@biomedicalforensics.com  
Co-Chair: Carla M. Noziglia, MS  
Co-Chair: Carol E. Henderson, JD  
Co-Chair: Matthew R. Wood, MS

#### Academy Cup Team Leaders:

Anthropology: Gregory E. Berg, PhD  
Criminalistics: Karolyn L. Tontarski, MS  
Digital & Multimedia Sciences: Marcus Rogers, PhD  
Engineering Sciences: John Nixon, CEng, MBA  
General: Claire E. Shepard, MS  
Jurisprudence: Stephanie Domitrovich, JD, PhD  
Odontology: Raymond G. Miller, DDS  
Pathology/Biology: James L. Caruso, MD  
Psychiatry & Behavioral Science: Dean M. De Crisce, MD  
Questioned Documents: Linton Mohammed, PhD  
Toxicology: Dan T. Anderson, MS

#### Program:

8:00 a.m. - 8:15 a.m. Instructions, Introductions of Team Leaders, and Team Strategizing  
8:15 a.m. - 8:30 a.m. PowerPoint® Questions and Team Answer Sheet Turned In  
8:30 a.m. - 8:45 a.m. PowerPoint® Answers



New Orleans  
2017

# PLENARY SESSION

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

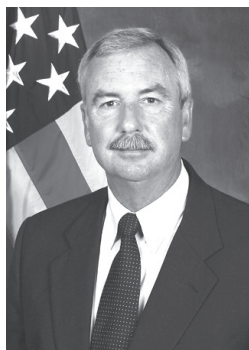
**Wednesday**

February 15, 2017 — 9:00 a.m. - 11:05 a.m.

2.0 CE Hours

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## *Welcoming Remarks*



### **Our Future Reflects Our Past: The Evolution of Forensic Science *Challenges and Advances Over the Decades***

**John E. Gerns, MFS**

President  
American Academy of Forensic Sciences

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*Plenary Session Chair:*

**Joanna L. Collins, MFS**  
Linus Consulting Group, LLC  
San Antonio, TX

*Plenary Session Co-Chair:*

**Nikolas P. Lemos, PhD**  
University of California, San Francisco  
San Francisco, CA

## *Speakers*

**Brianna B. Bermudez, BS**  
Michigan State University  
East Lansing, MI

**Carol E. Henderson, JD**  
Stetson University  
Gulfport, FL

**Edmund R. Donoghue, MD**  
Georgia Bureau of Investigation  
Savannah, GA

**Douglas M. Lucas, DSc**  
Burlington, ON  
CANADA

**Barry A.J. Fisher, MS, MBA**  
Indio, CA

**Douglas H. Ubelaker, PhD**  
Smithsonian Institution  
Washington, DC

**Kenneth S. Field, MBA**  
“In His Own Words” (*video presentation*)  
Colorado Springs, CO



New Orleans  
2017

# PLENARY SESSION

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

## **Our Future Reflects Our Past: The Evolution of Forensic Science Challenges and Advances Over the Decades (continued)**

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### **Overview:**

Since the birth of the American Academy of Forensic Sciences (AAFS) in 1948, the organization has grown to include 11 sections spanning the forensic enterprise. These sections represent more than 6,700 members in diverse disciplines, but there is one thing every member has in common — the desire to strengthen and grow the field of forensic science and transform to meet the challenges and scientific advances of the future. However, the future cannot be considered without examining and learning from our past. The Plenary Session will provide a forum to examine the evolution, challenges, and progress of forensic science and the AAFS from the perspective of former and current leaders in the forensic science community.

Each past president will discuss the challenges, opportunities, and innovations that were encountered during their careers, and more specially, during their terms as president. Their experiences ranged from a contested election to membership considerations based on emerging disciplines. Topics will include: the expansion of AAFS's involvement on the national platform and the impact of international outreach; how forensic practitioners and advocates for research affect the advancement in the respective disciplines; and, how the publication of the 2009 National Academy of Sciences (NAS) Report, *Strengthening Forensic Science in the United States: A Path Forward*, has molded the future and the importance of mentoring the new generations of forensic science practitioners and researchers who will fortify the forensic enterprise.

In addition to the historical presentations of AAFS past presidents, attendees will enjoy a special 20-minute video presentation by AAFS historian, **Kenneth S. Field, MBA**, *In His Own Words*. Mr. Field, nearly 99-years-old, will provide the historical perspective of AAFS's formative years, and attendees will hear his words of encouragement to the younger generation of AAFS members.

### **Program:**

9:00 a.m.	-	9:05 a.m.	Welcoming Remarks <i>AAFS President John E. Gerns, MFS</i>
9:05 a.m.	-	9:25 a.m.	AAFS Historian 1992-2010 — “In His Own Words” (video presentation) <i>Kenneth S. Field, MBA</i>
9:25 a.m.	-	9:40 a.m.	AAFS President 1972-1973 <i>Douglas M. Lucas, DSc</i>
9:45 a.m.	-	9:55 a.m.	AAFS President 1998-1999 <i>Barry A.J. Fisher, MS, MBA</i>
9:55 a.m.	-	10:10 a.m.	AAFS President 2005-2006 <i>Edmund R. Donoghue, MD</i>
10:10 a.m.	-	10:25 a.m.	AAFS President 2008-2009 <i>Carol E. Henderson, JD</i>
10:25 a.m.	-	10:40 a.m.	AAFS President 2011-2012 <i>Douglas H. Ubelaker, PhD</i>
10:40 a.m.	-	10:55 a.m.	YFSF President 2016-2017 <i>Brianna B. Bermudez, BS</i>
10:55 a.m.	-	11:05 a.m.	Closing Remarks <i>AAFS President John E. Gerns, MFS</i>





# BREAKFAST SEMINARS

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*Pre-Registration Required — \$50*

## Monday

### #1 **The Mummies of Central New York — A Unique Experience for a Medical Examiner’s Office**

February 13, 2017 — 7:00 a.m. - 8:30 a.m.

.75 CE Hour

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#### **Ronald Brunelli**

Onondaga County Medical Examiner’s Office  
Syracuse, NY

#### **Robert Stoppacher, MD**

Onondaga County Medical Examiner’s Office  
Syracuse, NY

**Educational Objective(s):** After attending this presentation, attendees will learn about the unique opportunity the Onondaga County Medical Examiner’s Office had in examining two Egyptian mummies. Participants will be able to understand how a multidisciplinary approach led to interesting historical findings as well as a cancer diagnosis. The cancer diagnosis discussion will ask the question, “Does this diagnosis change theories that cancer is a result of modern lifestyles and environment?”

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by explaining: (1) how the medical examiner’s office examined two Egyptian mummies; (2) the collaborative efforts of other forensic science disciplines; and, (3) the modern forensic techniques that lead to interesting historical information and possible information for the future.

Medical examiner personnel often see the effects of human mummification in their daily operation. This postmortem change typically occurs on human bodies that have been left in a dry, hot environment for a period of time. This type of postmortem change is often referred to as natural mummification.

From 6000 B.C. to 600 A.D., ancient Egyptians were known to have been the first civilization to perform preservation of not only dead humans, but also non-human remains such as cats and birds. This preservation process was performed by removing the brain, evisceration, immersion, dehydration, and wrapping the body in cloth. Egypt’s desert environment aided this mummification process. This is an example of artificial mummification.

The Onondaga County Medical Examiner’s Office had the opportunity to examine two Egyptian mummies. One mummy was a mummified head that had been found during an estate auction of a World War II United States Army veteran. He had found the head in a castle while he was stationed in Germany and brought it home at the end of his tour. Research revealed that Napoleon stowed two mummy heads there during his raid of Egypt. After this invasion, Napoleon had been known to stay in this castle on his way back to France.

The other mummy was a full body that had been on display at a local library’s Egyptian exhibit. This mummy had been brought to this community in the 1800s by a well-known wealthy citizen of this village. When he died, his Last Will and Testament was read in which this mummy and other Egyptian artifacts were donated to the library.

The forensic disciplines involved in these examinations were pathology, anthropology, trace evidence, chemistry, and radiology. Carbon dating was also performed. Information from these disciplines revealed information about the age at time of death, the possible eras in which these people lived, and their possible status in society. The full body mummy was determined to have had cancer. Does this cancer revelation provide humans with any information about future cancer research?

The routine day-to-day death investigations at a medical examiner’s office often involve decedents who have been naturally mummified; however, it is a unique experience for a moderate-sized office to have the opportunity to examine two Egyptian mummies within a one-year time frame. This presentation will discuss this involvement.



New Orleans  
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# BREAKFAST SEMINARS

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*Pre-Registration Required — \$50*

**Tuesday**

**#2 Analysis of Black-and-White Documents — Seeing Beyond the Monochrome**

**February 14, 2017 — 7:00 a.m. - 8:30 a.m.**

**.75 CE Hour**

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**Irina Geiman, MS**

United States Secret Service  
Communications Center (CID)  
Washington, DC

**Amanda Moffett, MFS**

Fairfax Station, VA

**Julia M. Barker, MSFS**

United States Secret Service  
Communications Center (CID)  
Washington, DC

**Educational Objective(s):** After attending this presentation, attendees will understand the basic scientific methodology used in the forensic examination of black-and-white documents. Attendees will have an opportunity to learn how physical, optical, and chemical analyses are utilized in the examination of inks, toners, and papers.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by demonstrating the importance of using the best analytical practices in the scientific analysis of questioned documents. This presentation will discuss the application of Thin-Layer Chromatography (TLC), Attenuated Total Reflectance/Fourier Transform Infrared (ATR/FTIR) spectroscopy, and X-Ray Fluorescence (XRF) spectroscopy in the analysis of inks, toners, and papers. This presentation will also showcase how the evolution of forensic document examination techniques has improved sample discrimination through the expanded use of analytical chemistry and statistical analysis.

Forensic examination of documents commonly includes microscopic analysis utilizing white light and other energy sources such as Ultraviolet (UV) and Infrared (IR). Although this level of examination may be sufficient for the analysis of color inks and papers, in many instances it does not provide enough discriminating power to differentiate components of black-and-white documents. For example, black toners often appear similar microscopically with the possible difference of fusing patterns. Black inks may, to an extent, be distinguished based on their physical and optical characteristics and white papers may contain IR luminescent fibers or UV brighteners, allowing for a certain degree of discrimination. While optical examinations provide a wealth of information, it is prudent to recognize their limitations, such as false positive results from document contamination or alteration.

The best practice is to continue with chemical analyses upon completion of the physical and optical examinations. Optimally, a suite of analytical techniques should be used to evaluate various aspects of the sample, including colorants, resins, and elemental composition. For example, TLC is a well-established technique for the analysis of soluble colorants in inks and brighteners in papers. It is also successfully used to evaluate resins and waxes found in toner particles. FTIR spectroscopy is employed to characterize toner polymers and paper coatings. XRF spectroscopy is used to examine elemental composition of analytes and may allow discrimination of papers and toners based on concentrations of iron, silicon, sulfur, titanium, or other elements.

This presentation will demonstrate that chemical examination of black-and-white documents provides a significant amount of information that may be crucial in discriminating samples. As forensic examination of documents has progressed significantly over the past century and moved from penmanship teachers conducting physical examinations using a loupe to highly trained chemists performing analyses using sophisticated instrumentation, it is important to employ the current best practices, which include a full spectrum of techniques.

# BREAKFAST SEMINARS



New Orleans  
2017

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*Pre-Registration Required — \$50*

**Thursday**

## **#3 Reliving the Jeffrey Dahmer Case 25 Years Later**

February 16, 2017 — 7:00 a.m. - 8:30 a.m.

**.75 CE Hour**

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**Jeffrey M. Jentzen, MD**

University of Michigan  
Ann Arbor, MI

**Carl J. Schmidt, MD**

Wayne County MEO  
Detroit, MI

**Educational Objective(s):** After attending this presentation, participants will recognize the characteristics of organized and disorganized serial killers.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing a model death investigation of a serial killer and his motives.

On July 23, 1991, personnel from the Milwaukee County Medical Examiner Office and Milwaukee Police Department responded to an apartment where partially skeletonized remains of 11 individuals had been detected. The assailant, Jeffrey Dahmer, was quickly taken into custody. In this unique situation, Dahmer freely discussed his role in the murders with law enforcement and provided a valuable resource for collaboration of scene, anthropological, and autopsy findings to pathologists and law enforcement personnel during the investigation. Scene investigation and autopsy analysis of the bodies provided prosecutors with detailed evidence of motives and the psychological state of Dahmer during the course of a death spree that lasted nine months.

The evaluation of the scene allowed investigators to: (1) establish methods of death; (2) begin the preliminary identification process; and, (3) demonstrate the deteriorating mental capacity of the assailant. Forensic pathologists assisted with the identification, established the cause of death, and documented injuries that allowed investigators to question Dahmer on various injuries he inflicted upon his victims. An anthropological examination assisted with the identification and also resulted in the establishment of victim profiles.

A forensic psychiatrist constructed Dahmer's psychological profile, which was characterized by a destructive behavior in which his collection of fetishistic memorabilia provided an expression of his deep ambivalence and mixed hostility toward his victims. Frustrated with his sexual immaturity and continual rejection, Dahmer channeled his hostility into a sadistic sexual behavior characteristic of the psychopathology of a serial killer.

The multidisciplinary investigation that followed provided a number of conclusions that permitted the successful prosecution and conviction of Jeffrey Dahmer. Dahmer strangled his victims following his use of "chemical" restraints. He experimented with a method of injecting caustic material into the brains of his victims to sedate and pacify them into being helpless "zombies." Forensic autopsies demonstrated the methods of death, postmortem dissection, and disposition. Anthropological analysis suggested Dahmer was attracted to a certain anthropometric body type. Materials recovered from the scene confirmed the methods of an "organized" serial killer with souvenir-taking to enhance sexual pleasure.

The Jeffrey Dahmer case has captured and captivated the American consciousness for the past 25 years. This presentation will discuss pitfalls in the investigative process using the lessons learned in the Dahmer case. Participants will understand the complexity of the crime and relive the experience by confronting the difficulties encountered in real time by investigators at the scene, which played an important role in the judicial proceedings that followed.



New Orleans  
2017

# BREAKFAST SEMINARS

*Pre-Registration Required — \$50*

**Friday**

## **#4 Cold Cases: An Exploratory Study of the Status of Unresolved Homicides in the United States**

February 17, 2017 — 7:00 a.m. - 8:30 a.m.

.75 CE Hour

**Sarah L. Stein, PhD**

The Center for the Resolution of Unresolved Crimes (CRUC)  
Ware, MA

**James M. Adcock, PhD**

Collierville, TN

**Erin H. Kimmerle, PhD**

University of South Florida  
Department of Anthropology  
Tampa, FL

**Sara A. Martin, BS**

Wallingford, CT

**Educational Objective(s):** After attending this presentation, attendees will have a better understanding of the status of unresolved homicides in the United States. More specifically, attendees will: (1) realize the total number of unresolved homicides in the country is far greater than previously believed and is increasing each year; (2) understand how each jurisdiction varies in their own definition of what constitutes a “cold” case; (3) see the varying degrees of perspectives as to what does and does not solve cold cases; and, (4) be more informed as to the status and influence of the unidentified dead and missing persons in our system and how this relates to open homicides.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing information new to this forum that will hopefully guide future decision making as it relates to: (1) the funding and efforts put forth toward the investigation of not only the unresolved homicides, but also the “hot” cases that are presently being investigated; and, (2) how we can improve the manner in which we are investigating the unidentified dead.

In 2010, *ScrippsNews* reported that from 1980 to 2008, based on Uniform Crime Report (UCR) clearance data, the United States had accumulated nearly 185,000 unresolved homicides.<sup>1</sup> Until now, that figure had not been validated or refuted. In the fall of 2015, an exploratory study was initiated that consisted of three phases: Phase I — survey law enforcement agencies regarding the status of their unresolved homicides; Phase II — survey the coroners and medical examiners concerning the status of their unidentified dead; and, Phase III — perform an analysis of the UCR clearance data for homicides from 1980 to 2014.

**Phase I:** Utilizing Survey Monkey®, solicitations were emailed to 10,500 law enforcement agencies. After a 90-day solicitation period, approximately 1,230 responses were received. After culling out those with inconsistent or incomplete information, the survey concluded with 992 responses that were demographically balanced as to population, department sizes, and geographic location.

Some of the overall findings suggest that approximately 73% reported the “lack of investigative leads” as the primary reason for a case going cold; 56% of the agencies said they have cold cases, yet only 19% of those have a dedicated cold case team consisting primarily of one to two detectives; and only about 24% of the teams have a prosecutor assigned to the team, while very few utilize the services of an analyst.

In rating the importance of factors contributing to solving cold cases, DNA was first, followed by interviewing skills of the detectives, detective decisions, cooperation of witnesses, availability of witnesses, latent prints, and other physical evidence. It was not surprising to see DNA identified as the leading solvability factor for cold cases, but this is contrary to what the research tells us about ongoing homicide investigations where DNA’s role is minimal compared to detective decisions.<sup>2-4</sup> A further review and analysis of this data with significant correlations will be provided.

# BREAKFAST SEMINARS



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*Pre-Registration Required — \$50*

## #4 **Cold Cases: An Exploratory Study of the Status of Unresolved Homicides in the United States**

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**Phase II:** With the support from both the International Association of Coroners & Medical Examiners (IAC&ME) and the National Association of Medical Examiners (NAME), solicitations were sent to association members to participate in a 90-day survey regarding the status of “the unidentified dead.” While NAME solicited through their LISTSERV, the IAC&ME sent out email blasts to their members. The results of that survey, along with an analysis, will be presented.

**Phase III:** Lastly, an analysis of the UCR clearance data, augmented by the supplemental homicide reports for the time frame 1980-2014, reflects that we have accumulated approximately 230,355 unresolved homicides and that figure is steadily rising each year; however, according to the Murder Accountability Project, the unresolved figure for the same time frame should be closer to 234,000.<sup>5</sup> Which is correct and why?

The question still lingers, are we doing enough and making the right decisions regarding not only the investigation of cold cases (including the unidentified dead) but also the investigation of ongoing homicides? This study will contribute to understanding the causation, critical variables, and attempts to answer some of these concerns.

### **Reference(s):**

- <sup>1</sup>. Hargrove, T., Nearly 185,000 homicides since 1980 remain unsolved. Retrieved from <http://www.scrippsnews.com/projects/murder-mysteries/nearly-185000-homicides-1980-remainunsolved>; retrieved June 2010.
- <sup>2</sup>. Baskin, D., & Sommers, I. (2010). The influence of forensic evidence on case outcomes of homicide incidents. *Journal of Criminal Justice*, 38, 1141–1149.
- <sup>3</sup>. Schroeder DA, White MD. Exploring the use of DNA evidence in homicide investigations: implications for detective work and case clearance. *Police Q* 2009;12(3):319–42.
- <sup>4</sup>. McEwen, Tom and Wendy Regoezci. *Forensic Evidence in Homicide Investigations and Prosecutions*. *J Forensic Sci*, September 2015, Vol. 60, No. 5.
- <sup>5</sup>. Murder Accountability Project: <http://murderdata.blogspot.com/>; retrieved March 30, 2016.



New Orleans  
2017

# LUNCHEON SEMINAR

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*Pre-Registration Required — \$58*

**Thursday**

## **#1 Murder on Campus — Understanding the Critical Incident and Forensic Response to a Targeted Murder on a College Campus**

**February 16, 2017 — 12:00 p.m. - 1:30 p.m.**

**1.0 CE Hour**

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**Matthew C. Wietbrock, BS**  
Lafayette, IN

**Carrie Costello, BA**  
West Lafayette, IN

**Educational Objective(s):** After attending this presentation, attendees will gain a better understanding of the events surrounding a brutal targeted murder on the campus of Purdue University, including lessons learned from the initial response to the scene of a critical incident and the coordination of processing multiple scenes in separate jurisdictions.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by detailing the facts surrounding the response to a critical incident, the communication challenges faced by first responders, safety concerns when responding to an active scene, and the forensic tasks employed to process multiple crime scenes properly. Subsequent laboratory analysis and court preparation will also be discussed.

In recent years, professional police agencies around the nation and world have trained to confront and to neutralize active shooter events. The Purdue University Police Department is among those agencies. While this incident did not claim multiple victims, as it was a targeted murder, lessons from the initial police response, crime scene investigation, and meeting the subsequent community expectations will be of great impact to the forensic community.

Tuesday, January 21, 2014, was a frigid winter day in West Lafayette. Students had recently returned to campus after the holiday break and were settling in to a new semester. Community members were making lunch plans without an inkling that tragedy was about to strike.

At 12:03 p.m., the Purdue University Police Department started receiving numerous Emergency 911 calls reporting that shots had been fired within the Electrical Engineering Building and that a killer was on the loose. As this report was dispatched via police radios, officers from three area agencies began to respond to the area. Responding officers made entry into the academic building, prepared to confront an active shooter. In accordance with their training, they rushed past the panicked students and faculty and made their way toward the basement. When the first officers made it to the scene, they found to their surprise, that the classroom laboratory was still full of students. Some of the students were even standing over their deceased teaching assistant, too shocked to move. Police quickly took control of the environment by ensuring that the student witnesses were taken care of and sequestered. Officers then began to search the area, looking for the killer. These searches quickly bore positive results, as the suspect surrendered himself outside of the building, not 100 yards from where he had claimed a life. Secondary searches of the building commenced as officers began to look for additional threats to the public. Investigators closest to the apprehension of the suspect were given strong reason to believe that the suspect had acted alone. To the rest of the responding officers, the “fog of war” had descended and situational awareness became the greatest of currency. Rumors of additional shooters abounded in the early minutes of the response. These rumors were compounded by confusing radio communication and the activation of the fire alarm, which triggered a full evacuation of the building.

Even while the scene remained chaotic, crime scene professionals from four separate agencies began to descend upon the scene. A true team effort would take place in the processing of the murder scene. This effort would include many specializations such as blood spatter analysis, photogrammetry, medicolegal death investigation, and computer forensics.

# LUNCHEON SEMINAR



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*Pre-Registration Required — \$58*

## **#1 Murder on Campus — Understanding the Critical Incident and Forensic Response to a Targeted Murder on a College Campus**

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During the initial survey of the scene, investigators got their first look at this brutal murder. The victim had been shot at point-blank range with a revolver. He had also had his throat cut and eyes stabbed with a pocket knife. Investigators also noted the presence of video surveillance equipment in the room. It was later determined that the equipment had been installed only days before. Investigators moved quickly to ensure that any recorded evidence was preserved to allow for review. At the same time, investigative teams were organizing to search the residences of the suspect and victim to identify and collect any obvious items of evidentiary value. Having multiple teams responding to multiple locations demanded a high degree of communication and coordination. This was one of the largest challenges of the initial investigation.

This presentation will cover, in detail, the facts surrounding the perpetrator of this crime as well as his relationship with the victim. The subsequent processing of multiple crime scenes, spanning two jurisdictions, will be discussed, along with lessons learned regarding resource allocation, communication among the separate forensic teams, and critical incident response. The final disposition of subsequent court proceedings and the eventual death of the suspect in prison will also be covered.





New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #1 Behind the Curtain: Understanding the Basic Science and Testimony of Latent Prints

Monday, February 13, 2017

8:30 a.m. – 12:30 p.m.

3.5 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will be well-positioned to critically evaluate latent print reports and testimony. Prosecutors will be more aware of changing trends in testimony and will better understand how to prep their expert witnesses to make sure they aren't falling into "old school" traps and are well prepared to discuss the relevant literature. Defense attorneys will be able to spot unsupported statements and effectively challenge them in court. Judges will gain a basic understanding of the modern scientific research detailing the strengths and limitations of latent print comparisons, which will allow them to be more effective gatekeepers. All legal professionals will be equipped to spot the difference between the "old school" or "dogma" expert and the "transparent" expert and will be able to react accordingly.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by assisting the legal community to better understand the basic scientific principles behind friction ridge comparisons. This workshop will provide the legal community with the tools to critically evaluate friction ridge testimony, which will in turn allow them to better advocate for the science, challenge the science, or fulfill a gatekeeping role, as their positions within the legal system dictate. These skills will improve the application of friction ridge comparison science in the legal system by helping to ensure that it is presented responsibly and used appropriately, increasing its value to the legal system.

*Chair:*

**Heidi Eldridge, MS**  
RTI International  
Research Triangle Park, NC

*Co-Chair:*

**Jeri D. Roper-Miller, PhD**  
RTI International  
Research Triangle Park, NC

*Faculty:*

**Brendan Max, JD**  
Chicago, IL

**Program Description:** This session is being offered as a "Behind the Curtain" look at the basic science and testimony of latent prints for the benefit of the legal community. The workshop will include a description of the scientific foundations of friction ridge comparisons, as well as discussions regarding the way the science is presented in court, encompassing both good and bad practices, and equipping legal practitioners to critically evaluate this evidence in the courtroom. This session is being presented by a forensic scientist and a legal professional in order to present both perspectives. Join us for a peek "Behind the Curtain" into the science of latent print examinations.

### Program:

8:30 a.m. - 8:40 a.m.	Welcome <i>Heidi Eldridge, MS</i>
8:40 a.m. - 9:30 a.m.	Scientific Foundations of Friction Ridge Comparisons <i>Heidi Eldridge, MS</i>
9:30 a.m. - 10:30 a.m.	Traditional Expression of Conclusions and Their Pitfalls <i>Heidi Eldridge, MS; Brendan Max, JD</i>
10:30 a.m. - 10:45 a.m.	Break



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #1 **Behind the Curtain: Understanding the Basic Science and Testimony of Latent Prints (continued)**

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**Program cont.:**

10:45 a.m. - 11:15 a.m.	New Styles in Expression of Conclusions <i>Heidi Eldridge, MS; Brendan Max, JD</i>
11:15 a.m. - 12:15 p.m.	Legal Strategies for Latent Print Evidence <i>Brendan Max, JD</i>
12:15 p.m. - 12:30 p.m.	Questions and Answers <i>Heidi Eldridge, MS; Brendan Max, JD</i>

**Targeted Audience:** Jurisprudence

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 75 Pages



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$250 w/registration; \$300 workshop only*

### #2 A Computational Framework for Skeletal Age-at-Death Estimation Using Laser Scans of the Adult Pubic Symphysis: Theory, Methods, and Software

Monday, February 13, 2017

8:30 a.m. – 4:30 p.m.

5.75 CE Hour

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**Educational Objective(s):** After attending this presentation, attendees will understand state-of-the-art skeletal age estimation, the problems forensic anthropologists face when estimating age by conventional methods, the needs of the medicolegal community, and the potential for advancing the field using new shape-based methods. Attendees will receive instruction in three new methods that apply numerical shape algorithms to laser scans of the skeletal age indicator. Attendees will also receive hands-on training in using the equipment, software, casts, and data.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by delivering instruction on implementing three new fully computational methods for age-at-death estimation from skeletal laser scans that produce estimates that closely approximate true age, with minimal risk of subjectivity or low-method/observer-induced error.

*Chair:*

**Bridget F.B. Algee-Hewitt, PhD**

Stanford University  
Department of Biology  
Stanford, CA

*Co-Chair:*

**Jieun Kim, PhD**

Knoxville, TN

*Faculty:*

**Cristina Figueroa-Soto, MA**

The University of Tennessee  
Knoxville, TN

**Dennis E. Slice, PhD**

Florida State University  
Department of Scientific Computing  
Tallahassee, FL

**Diane L. France, PhD**

Human Identification Laboratory of CO  
Fort Collins, CO

**Detelina Stoyanova, PhD**

Florida State University  
Department of Scientific Computing  
Tallahassee, FL

**Program Description:** The estimation of age at death in forensic anthropology provides an essential component of the biological profile, but it is among the most challenging of the parameters requiring individual determination. In this workshop participants will be shown how improvement in age inference can be achieved by adopting an alternative, fully computational approach to the macromorphoscopic assessment methods traditionally applied to skeletal indicators of age and, specifically, to the pubic symphysis. Participants will understand how accurate, precise, and objective age estimates can be obtained by sourcing 3D coordinate data from laser scans of the pubic symphysis, subjecting these data to shape-analysis algorithms, and combining the resulting shape measures in multivariate regression models. This workshop will introduce forensic practitioners to the theory and application of three newly developed shape-based methods for age-at-death estimation. Participants will have the opportunity to learn how these methods are applied to laser scan-derived data and work directly with the NextEngine scanner and the scan editing and manipulation software, ScanStudio™. For the first time, the “forAge” software will be introduced which can be used by participants to generate individual age estimates from laser scan data. This session will be of broad interest to members of the forensic community as the methods are easily implementable by participants with varying experience, but who are required to obtain robust estimates of age at death in the context of medicolegal investigation.



## WORKSHOPS

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*Pre-Registration Required — \$250 w/registration; \$300 workshop only*

### **#2 A Computational Framework for Skeletal Age-at-Death Estimation Using Laser Scans of the Adult Pubic Symphysis: Theory, Methods, and Software (continued)**

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**Program:**

8:30 a.m. - 8:45 a.m.	Age Estimation <i>Bridget F.B. Algee-Hewitt, PhD</i>
8:45 a.m. - 9:00 a.m.	Shape Analysis <i>Dennis E. Slice, PhD</i>
9:00 a.m. - 9:30 a.m.	Data Collection and Scan Editing <i>Jieun Kim, MA</i>
9:30 a.m. - 10:00 a.m.	forAge Software <i>Detelina Stoyanova, PhD</i>
10:00 a.m. - 10:15 a.m.	Break
10:15 a.m. - 10:45 a.m.	Recommendations for Field and Labwork <i>Cristina Figueroa-Soto, MA</i>
10:45 a.m. - 10:55 a.m.	A Discussion of Age-Determination Casts for Validation <i>Bridget F.B. Algee-Hewitt, PhD; Diane L. France, PhD</i>
10:55 a.m. - 11:15 a.m.	Questions and Answers <i>Bridget F.B. Algee-Hewitt, PhD; Dennis E. Slice, PhD; Detelina Stoyanova, PhD; Jieun Kim, MA; Cristina Figueroa-Soto, MA</i>
11:15 a.m. - 12:45 p.m.	Lunch
12:45 p.m. - 1:45 p.m.	Hands-On Training: Session I <i>Bridget F.B. Algee-Hewitt, PhD; Dennis E. Slice, PhD; Detelina Stoyanova, PhD; Jieun Kim, MA; Cristina Figueroa-Soto, MA</i>
1:45 p.m. - 2:00 p.m.	Break
2:00 p.m. - 3:00 p.m.	Hands-On Training: Session II <i>Bridget F.B. Algee-Hewitt, PhD; Dennis E. Slice, PhD; Detelina Stoyanova, PhD; Jieun Kim, MA; Cristina Figueroa-Soto, MA</i>
3:00 p.m. - 3:15 p.m.	Break



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$250 w/registration; \$300 workshop only*

### **#2 A Computational Framework for Skeletal Age-at-Death Estimation Using Laser Scans of the Adult Pubic Symphysis: Theory, Methods, and Software (continued)**

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**Program cont.:**

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|-----------------------|---|
| 3:15 p.m. - 4:15 p.m. | Hands-On Training: Session III<br><i>Bridget F.B. Algee-Hewitt, PhD; Dennis E. Slice, PhD; Detelina Stoyanova, PhD; Jieun Kim, MA; Cristina Figueroa-Soto, MA</i> |
| 4:15 p.m. - 4:30 p.m. | Closing Remarks and Discussion<br><i>Bridget F.B. Algee-Hewitt, PhD</i>   |

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

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 50 Pages

**Restricted Audience Size:** 25

*Registration is limited to the first 25 registrants. Participants should bring their own laptop for hands-on activities.*



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #3 Shooting Reconstruction

Monday, February 13, 2017

8:30 a.m. – 5:00 p.m.

6.75 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will learn some of the phenomena that must be taken into consideration when assessing a shooting scene. Several different types of ammunition will be discussed, along with their interactions with several different substrates commonly encountered. Attendees will also become familiar with evidence recognition, documentation, and recovery for laboratory analysis.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by exploring some of the techniques used in shooting scene reconstruction and subsequent laboratory analysis of related evidence.

*Chair:*

**Peter J. Diaczuk, PhD**  
Penn State University  
State College, PA

*Co-Chair:*

**Jack Hietpas, PhD**  
Penn State University  
University Park, PA

*Faculty:*

**Linda Tran, BS**  
Jefferson Parish Sheriff's Office  
Harvey, LA

**Andrew J. Winter, MS**

Middlesex County Prosecutor's Office  
New Brunswick, NJ

**Program Description:** Shooting reconstruction is a complex endeavor, requiring a thorough knowledge of bullets, firearms, and impact dynamics. This workshop will attempt to elucidate some of the situations encountered and offer solutions to questions that arise at shooting scenes, including ricochets.

**Program:**

8:30 a.m. - 9:20 a.m.	Ammunition <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS</i>
9:20 a.m. - 10:10 a.m.	Bullet Ricochet <i>Peter J. Diaczuk, PhD</i>
10:10 a.m. - 10:20 a.m.	Break
10:20 a.m. - 11:10 a.m.	Bullet Interactions With Substrates <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS</i>
11:10 a.m. - 12:00 p.m.	Determining Bullet Paths at the Scene <i>Peter J. Diaczuk, PhD; Andrew J. Winter, MS</i>
12:00 p.m. - 1:30 p.m.	Lunch
1:30 p.m. - 2:20 p.m.	Practical Exercises: Identify Ricocheted Bullets <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS; Linda Tran, BS</i>



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #3 Shooting Reconstruction (continued)

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**Program cont.:**

2:20 p.m. - 3:10 p.m.	Practical Exercise: Interpreting Powder Patterns <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS; Linda Tran, BS</i>
3:10 p.m. - 3:20 p.m.	Break
3:20 p.m. - 4:10 p.m.	Practical Exercise: Determining Bullet Paths <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS; Linda Tran, BS</i>
4:10 p.m. - 5:00 p.m.	Results and Discussion <i>Peter J. Diaczuk, PhD; Jack Hietpas, PhD; Andrew J. Winter, MS; Linda Tran, BS</i>

**Targeted Audience:** Criminalistics

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 40 Pages

**Restricted Audience Size:** 24

**Supported by:** Leica Microsystems

*Registration is limited to the first 24 registrants.*





New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #4 Sex-Related Homicide and Death Investigations: Practical and Clinical Perspectives — The Significance of Pornography, Sexual Deviance, Autoerotic Fatalities, Signature and *Modus Operandi* (M.O.) in Serial Murder Investigation and Criminal Investigative Analysis

Monday, February 13, 2017

8:30 a.m. – 5:00 p.m.

6.25 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will be aware of common assumptions made by responders on scene, such as, a death is an autoerotic asphyxia death prior to investigating if more than one person may have been involved. Attendees of this presentation will better understand the significance of sexual deviancy, fantasy, and pornography in sex-related events, as well as the investigative and behavioral analysis and medicolegal considerations involved in these types of cases. This presentation will provide attendees with practical, proven procedures for crime scene documentation, law enforcement investigation, and medicolegal investigations.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing and familiarizing forensic scientists and investigators with the investigative expertise and medicolegal science involved in the professional examination of sex-related homicide and death investigations. There will be case examples that focus on determining whether or not the death is a paraphilic accident or a sex-related homicide.

*Chair:*

**Vernon J. Geberth, MS, MPS**  
Practical Homicide Investigation  
Marco Island, FL

*Co-Chair:*

**Thomas C. McAndrew, MA**  
Pennsylvania State Police  
Orefield, PA

*Faculty:*

**Barbara C. Wolf, MD**  
District 5 Medical Examiner’s Office  
Leesburg, FL

**Andrea Zaferes, BA**  
Dutchess County Medical Examiner Office  
Shokan, NY

**Program Description:** This presentation will provide examples and information on human sexuality, sexual deviance, and paraphilic considerations in these types of investigations, as well as the medicolegal analysis and evaluation of sex-related events, including the current knowledge regarding autoerotic fatalities (e.g., definitions and crime scene characteristics).

This session will focus on the dynamics of sex-related homicides, including rape, lust murder, and serial killings through both case history and research information. This session will also focus, through case histories and research, on the investigative strategies employed in the behavioral analysis of serial and lust murders, concentrating on the “signature and M.O.” employed by sex offenders. There will be a discussion of the significance of sexual posing in crime scenes.

**Program:**

8:30 a.m. - 10:00 a.m. Sexual Deviance and the Significance of Fantasy and Pornography  
*Vernon J. Geberth, MS, MPS; Andrea Zaferes, BA*

10:00 a.m. - 10:30 a.m. Break



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## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### **#4 Sex-Related Homicide and Death Investigations: Practical and Clinical Perspectives — The Significance of Pornography, Sexual Deviance, Autoerotic Fatalities, Signature and *Modus Operandi* (M.O.) in Serial Murder Investigation and Criminal Investigative Analysis (continued)**

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**Program cont.:**

10:30 a.m. - 12:00 p.m.	Medicolegal Evaluation and the Role of the Medical Examiner in the Evaluation of Sex-Related Homicides and Death Investigations <i>Barbara C. Wolf, MD</i>
12:00 p.m. - 1:15 p.m.	Lunch
1:15 p.m. - 3:00 p.m.	Case Histories of Sex-Related Homicides and Death Investigations, Including Sex-Related Aquatic Deaths <i>Thomas C. McAndrew, MA; Andrea Zaferes, BA</i>
3:00 p.m. - 3:30 p.m.	Break
3:30 p.m. - 4:45 p.m.	Investigative and Behavioral Analysis in Criminal Personality Profiling: Signature and M.O. Case Studies of Sex-Related Homicides — The Frequency of Sexual Posing in Homicide <i>Vernon J. Geberth, MS, MPS; Thomas C. McAndrew, MA</i>
4:45 p.m. - 5:00 p.m.	Discussion <i>Vernon J. Geberth, MS, MPS; Thomas C. McAndrew, MA; Barbara C. Wolf, MD; Andrea Zaferes, BA</i>

**Targeted Audience:** General, Pathology/Biology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 150 Pages

**Restricted Audience Size:** 125

*Registration is limited to the first 125 registrants.*



New Orleans  
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# WORKSHOPS

*Pre-Registration Required — \$250 w/registration; \$275 workshop only*

## #5 The Opioid Epidemic: Trends, Challenges, and a Path Forward

Monday, February 13, 2017

8:30 a.m. – 5:00 p.m.

6.75 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will be able to: (1) describe the current epidemiology of prescription and non-prescription opioid drugs in North America and around the world; (2) identify and distinguish between the various chemical categories of novel emerging opioid drugs; (3) implement a drug-screening protocol for novel emerging opioid drugs, looking for the most relevant drugs; and, (4) apply data from intoxication cases involving traditional and emerging opioid agonists in the interpretation of forensic toxicology and death investigation casework.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing an update to the current state of the opioid epidemic in which emerging novel opioid drugs are challenging professionals in forensic chemistry, toxicology, emergency response, and death investigation.

*Chair:*

**Donna M. Papsun, MS**  
Willow Grove, PA

*Co-Chair:*

**Barry K. Logan, PhD**  
NMS Labs/The Center for  
Forensic Science Research and Education  
Willow Grove, PA

*Faculty:*

**Kavita Babu, MD**  
University of Massachusetts Medical Center  
Worcester, MA

**Roumen Sedefov, MD**  
European Monitoring Centre for Drugs and Drug Addiction  
Lisbon, PORTUGAL

**Melissa Friscia, MSFS**  
The Center for Forensic Science Research and Education  
Willow Grove, PA

**Istvan Ujvary, PhD**  
Budapest University of Technology & Economics  
Budapest, HUNGARY

**Graham R. Jones, PhD**  
Alberta Office of the Chief Medical Examiner  
Edmonton, AB, CANADA

**Jeff Walterscheid, PhD**  
Armed Forces Medical Examiner System  
Division of Forensic Toxicology  
Dover AFB, DE

**Amanda L.A. Mohr, MSFS**  
The Center for Forensic Science Research and Education  
Willow Grove, PA

**Joshua Yohannan, MS**  
Allegheny County Medical Examiner's Office  
Pittsburgh, PA

**Program Description:** This workshop will cover the opioid epidemic that is ravaging the United States and other countries and is affecting agencies at all levels, including crime laboratories, law enforcement, public health officials, and toxicologists.

**Program:**

8:30 a.m. - 8:35 a.m.      Welcome and Introduction  
*Donna M. Papsun, MS*

8:35 a.m. - 9:20 a.m.      Opioid Prevalence in Death Investigations  
*Barry K. Logan, PhD*



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## WORKSHOPS

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*Pre-Registration Required — \$250 w/registration; \$275 workshop only*

### #5 The Opioid Epidemic: Trends, Challenges, and a Path Forward (continued)

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**Program cont.:**

9:20 a.m. - 10:20 a.m.	The United States Illicit Opioids Market and Trends — Manufacturing, Marketing, and Distribution of Illicit Opioids <i>Joshua Yohannan, MS</i>
10:20 a.m. - 10:35 a.m.	Break
10:35 a.m. - 11:15 a.m.	Medical Toxicology Experience With Novel Opioid Abuse and Experiences With the Expansion of Naloxone Reversals <i>Kavita Babu, MD</i>
11:15 a.m. - 12:00 p.m.	The European Experience With Opioids <i>Roumen Sedefov, MD</i>
12:00 p.m. - 1:15 p.m.	Lunch
1:15 p.m. - 2:15 p.m.	Quantitative Structure-Activity Relationship (QSAR) Studies and the Opioid Receptors <i>Istvan Ujvary, PhD</i>
2:15 p.m. - 2:55 p.m.	Loperamide Abuse <i>Jeff Walterscheid, PhD</i>
2:55 p.m. - 3:10 p.m.	Break
3:10 p.m. - 3:40 p.m.	The Arrival of Designer Opioids: Case Studies in Acetylfentanyl, Butyryl Fentanyl, AH-7921, and MT-45 <i>Donna M. Papsun, MS</i>
3:40 p.m. - 4:05 p.m.	The Emerging Opioids of 2016: Case Reports of U-47700 and Furanyl Fentanyl <i>Amanda L.A. Mohr, MSFS</i>
4:05 p.m. - 4:30 p.m.	Case Reports Involving 3-Methyl Fentanyl <i>Melissa Friscia, MSFS</i>
4:30 p.m. - 5:00 p.m.	W-18/W-15 <i>Graham R. Jones, PhD</i>

**Targeted Audience:** Criminalistics, General, Pathology/Biology, Toxicology

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 200 Pages

**Supported by:** The Center for Forensic Science Research and Education



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# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

*This program is presented by the Forensic Sciences Foundation, Inc.*



## #6 Taking a Bite Out of Crime and Other Hairy Situations

Monday, February 13, 2017

8:30 a.m. – 5:00 p.m.

6.5 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will understand how wrongful convictions and exonerations come to light through the post-conviction process and will be provided examples of how to respond when mistakes are uncovered.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by highlighting what has been learned from two forensic disciplines under fire and how addressing these weaknesses has led and can lead to a stronger forensic future.

*Chair:*

**Anjali A. Ranadive, JD**  
SciLawForensics, Ltd  
Brookings, SD

*Co-Chair:*

**Pamela A.W. King, JD**  
Rochester, MN

*Faculty:*

**Cynthia Brzozowski, DMD**  
Sea Cliff, NY

**Keith Harward**  
Undisclosed

**Anthony R. Cardoza, DDS**  
Santee, CA

**Sandra Levick, JD**  
Washington, DC

**Maxwell Christopher Fabricant, JD**  
The Innocence Project  
New York, NY

**Christopher J. Plourd, JD**  
Superior Court  
El Centro, CA

**Lynn Garcia, JD**  
Texas Forensic Science Commission  
Austin, TX

**Sherry Elizabeth Sabol, JD**  
Washington, DC

**Program Description:** This program will focus on two exonerations, the missteps that led to them, and the global forensic reform efforts undertaken in response. In addition, a look at how we can continue to improve and strengthen our forensic systems will be highlighted.

### Program:

8:30 a.m. - 8:45 a.m.	Introduction <i>Anjali A. Ranadive, JD</i>
8:45 a.m. - 9:45 a.m.	Legislative Solutions <i>Lynn Garcia, JD</i>
9:45 a.m. - 10:30 a.m.	A Case Study: Kirk Odom <i>Sandra Levick, JD</i>
10:30 a.m. - 10:45 a.m.	Break



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# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #6 Taking a Bite Out of Crime and Other Hairy Situations (continued)

**Program cont.:**

10:45 a.m. - 11:15 a.m.	A Case Study: Kirk Odom <i>Sandra Levick, JD; Sherry Elizabeth Sabol, JD</i>
11:15 a.m. - 12:00 p.m.	A Case Study: Keith Harward <i>Maxwell Christopher Fabricant, JD</i>
12:00 p.m. - 1:00 p.m.	Lunch
1:00 p.m. - 1:30 p.m.	A Case Study: Keith Harward <i>Anthony R. Cardoza, DDS</i>
1:30 p.m. - 2:00 p.m.	A Case Study: Keith Harward <i>Cynthia Brzozowski, DMD</i>
2:00 p.m. - 2:45 p.m.	A Case Study: Keith Harward <i>Maxwell Christopher Fabricant, JD; Keith Harward</i>
2:45 p.m. - 3:15 p.m.	Break
3:15 p.m. - 3:45 p.m.	Judiciary Responsibilities <i>Christopher J. Plourd, JD</i>
3:45 p.m. - 4:15 p.m.	Judiciary Responsibilities <i>Pamela A.W. King, JD</i>
4:15 p.m. - 5:00 p.m.	Questions, Answers, and Wrap-Up <i>Anjali A. Ranadive, JD; Cynthia Brzozowski, DMD; Anthony R. Cardoza, DDS; Maxwell Christopher Fabricant, JD; Lynn Garcia, JD; Pamela A.W. King, JD; Sandra Levick, JD; Christopher J. Plourd, JD</i>

**Targeted Audience:** All Disciplines

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 50 Pages

*Proceeds from this workshop will benefit the Forensic Sciences Foundation, Inc.*





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# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #7 How to Manage the Multidisciplinary Response to a Mass Fatality Event

Monday, February 13, 2017

8:30 a.m. – 5:00 p.m.

6.5 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will: (1) understand what to expect if they are involved in a mass fatality event; (2) understand who is involved; (3) understand what the expectations are of the different parties; (4) learn how to work with different government agencies, private parties, media, and families; (5) know how to provide leadership and direction; and, (6) understand the practical lessons learned from multiple events so they can review existing plans, update them if needed, and be better prepared for the variety of events in which they are likely to be involved.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing practical, experienced guidance on what to expect, how to manage, and how to avoid the very common mistakes that medical examiners, coroners, law enforcement, and others who have the responsibility of preparing for and responding to mass fatality events will face when these events occur.

*Chair:*

**Robert A. Jensen, BS**

Kenyon International Emergency Services  
Spring, TX

*Co-Chair:*

**Anthony B. Falsetti, PhD**

Arizona State University  
New College of Interdisciplinary Arts and Sciences  
Glendale, AZ

**Program Description:** The goal of this session is to provide a big-picture, practical, mass fatality event management strategy. Topics covered in this session include: (1) an overview of who's involved, from occurrence of the event to final litigation in court and managing the best practice teamwork that is needed for success; (2) an overview of what's involved (i.e., the functional areas beyond the morgue that need to be addressed, such as collecting antemortem information, establishing call centers to register missing persons, and family briefings); (3) media and communications management (i.e., how and what to say; secure websites; family, media, and political briefings); (4) common mistakes in the identification and release of human remains; (5) dealing with Hazardous Materials (HAZMAT) (including deliberately introduced) or infectious (public health) and/or contaminated human remains and scenes; and, (6) managing the critical incident stress impact on oneself and staff.

### Program:

8:30 a.m. - 9:40 a.m.	An Overview of Who's Involved: Review the Various Disciplines, Skills Sets, and Roles of People Involved in a Mass Fatality Event <i>Robert A. Jensen, BS; Anthony B. Falsetti, PhD</i>
9:40 a.m. - 9:55 a.m.	Break
9:55 a.m. - 10:45 a.m.	Overview of What's Involved: Review the Functional Areas Involved in a Mass Fatality Event <i>Anthony B. Falsetti, PhD; Robert A. Jensen, BS</i>
10:45 a.m. - 11:00 a.m.	Break
11:00 a.m. - 12:00 p.m.	Media and Communications Management <i>Robert A. Jensen, BS; Anthony B. Falsetti, PhD</i>
12:00 p.m. - 1:15 p.m.	Lunch

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## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #7 How to Manage the Multidisciplinary Response to a Mass Fatality Event (continued)

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**Program cont.:**

1:15 p.m. - 2:25 p.m.	Common Mistakes in the Identification and Release of Human Remains <i>Anthony B. Falsetti, PhD; Robert A. Jensen, BS</i>
2:25 p.m. - 2:40 p.m.	Break
2:40 p.m. - 3:40 p.m.	Dealing With Contaminated Human Remains <i>Robert A. Jensen, BS; Anthony B. Falsetti, PhD</i>
3:40 p.m. - 4:30 p.m.	Manage the Critical Incident Stress <i>Robert A. Jensen, BS; Anthony B. Falsetti, PhD</i>
4:30 p.m. - 5:00 p.m.	Conclusions, Questions, and Answers <i>Anthony B. Falsetti, PhD; Robert A. Jensen, BS</i>

**Targeted Audience:** Anthropology, Criminalistics, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 20 Pages



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# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #8 Applications of Hair Testing in Toxicology: Legal, Technical, and Medical Challenges

Monday, February 13, 2017

8:30 a.m. – 5:30 p.m.

7.0 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will be able to evaluate the usefulness of hair testing in forensic casework by becoming more knowledgeable, which will allow attendees to: (1) describe and explain the existing consensus documents on hair analysis, recognize the importance of guidelines in hair testing, and evaluate their own laboratory routines in the light of the existing guidelines; (2) describe how Ethyl Glucuronide (EtG) is incorporated into hair and interpret the results of this type of analysis; (3) describe the differences between urine/blood testing and hair testing for doping agents and be more knowledgeable concerning sport regulations in cases of doping offenses in addition to relevant political issues in using hair for doping purposes; (4) realize the possible applications of hair analysis in forensic toxicology and the circumstances and challenges that must be considered for the correct interpretation of the results; and, (5) gain an overview of workplace drug testing and the challenges of hair testing in a production laboratory.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by allowing attendees to gain insight into the broader scope of the analysis of hair for drugs and toxins in a range of fields applicable to forensic science. By including discussion on recent changes in legislation and standards, the usefulness of these tests in the greater context of the law and recent regulatory changes will be clearer to the forensic science community.

*Chair:*

**Karen S. Scott, PhD**

Arcadia University  
Glenside, PA

*Co-Chair:*

**Robert Kronstrand, PhD**

National Board of Forensic Medicine  
Department of Forensic Toxicology  
Linköping, SWEDEN

*Faculty:*

**Gail Audrey Ann Cooper, PhD**

New York City Office of the Chief Medical Examiner  
New York State, NY

**Pascal Kintz, PhD**

X-Pertise Consulting  
Oberhausbergen, FRANCE

**Joseph Jones, MS**

United States Drug Testing Laboratories  
Des Plaines, IL

**Lauren M. Vinsick, BS**

Omega Labs  
Mogadore, OH

**Carmen Jurado, PhD**

National Institute of Toxicology and Forensic Science  
Seville, SPAIN

**Program Description:** This workshop provides an overview of the current status of hair testing in a variety of toxicological areas and includes references to current standards and consensus agreements as set by the Society of Hair Testing. By providing both an overview and more detailed information in workplace testing, pediatric and maternal testing, doping and alcohol biomarkers, as well as forensic toxicological testing of hair, this session is not only amenable to toxicologists but also relevant to pathologists and criminalists with an interest in expanding their understanding of the importance of these tests in criminal investigations. Each of the internationally renowned speakers has expert knowledge in their specific topics and discussion will center on the challenges faced in this growing field and how best practices are of use in developing reliable methods and gaining better insight for interpretation. Attendees will be invited to bring their own cases and experiences to the panel for detailed discussion during the workshop.



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## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #8 Applications of Hair Testing in Toxicology: Legal, Technical, and Medical Challenges (continued)

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**Program:**

8:30 a.m. - 9:00 a.m.	Introduction <i>Karen S. Scott, PhD</i>
9:00 a.m. - 10:00 a.m.	The Society of Hair Testing Guidelines and Consensus Agreements <i>Robert Kronstrand, PhD</i>
10:00 a.m. - 10:15 a.m.	Break
10:15 a.m. - 11:15 a.m.	Applications and Challenges of Hair Analysis in Forensic Toxicology <i>Carmen Jurado, MSc</i>
11:15 a.m. - 12:15 p.m.	Hair Testing in Neonatal, Pediatric, and Maternal Casework <i>Gail Audrey Ann Cooper, PhD</i>
12:15 p.m. - 1:15 p.m.	Lunch
1:15 p.m. - 2:15 p.m.	Workplace Drug Testing and Challenges of Hair Testing in a Production Laboratory <i>Lauren M. Vinsick, BS</i>
2:15 p.m. - 3:15 p.m.	Hair Testing for Doping Agents: Science and Politics <i>Pascal Kintz, PhD</i>
3:15 p.m. - 3:30 p.m.	Break
3:30 p.m. - 4:30 p.m.	The Detection of EtG in Hair: Advantages, Limitations, and Current Applications <i>Joseph Jones, MS</i>
4:30 p.m. - 5:30 p.m.	Faculty Panel Case Discussion <i>Karen S. Scott, PhD; Robert Kronstrand, PhD; Carmen Jurado, MSc; Gail Audrey Ann Cooper, PhD; Lauren M. Vinsick, BS; Pascal Kintz, PhD; Joseph Jones, MS</i>

**Targeted Audience:** Criminalistics, General, Jurisprudence, Pathology/Biology, Toxicology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 175 Pages



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# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

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

Monday, February 13, 2017

8:30 a.m. – 5:30 p.m.

7.5 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will learn three new categories of staged scenes, with case examples of different types of crimes where staging is prevalent. Additionally, attendees will learn the “red flags” or common findings in staged scenes.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by introducing the distinct categories of staging based on the intent of the offender’s scene alteration. Ultimately, applying these categories may help in the quick recognition of scene alterations or staging.

*Chair:*

**Arthur S. Chancellor, MA**  
Angier, NC

*Co-Chair:*

**Grant D. Graham, Sr., MFS**  
Fayetteville, NC

**Program Description:** This session is targeted toward persons in forensic pathology, criminalistics, crime scene analysts, and criminal investigations. It introduces three new categories of staged scenes, provides case examples, and explains the “red flags” commonly encountered when confronted with a staged scene. The session culminates with case studies for each attendee to work through and identify the various “red flags” in real cases.

### Program:

8:30 a.m. - 10:20 a.m.	Primary Staged Scenes <i>Grant D. Graham, Sr., MFS; Arthur S. Chancellor, MA</i>
10:20 a.m. - 10:35 a.m.	Break
10:35 a.m. - 12:30 p.m.	Primary and Secondary Staged Scenes <i>Grant D. Graham, Sr., MFS; Arthur S. Chancellor, MA</i>
12:30 p.m. - 1:30 p.m.	Lunch
1:30 p.m. - 3:20 p.m.	Secondary and Tertiary Staged Scenes and Red Flags of Staged Scenes <i>Grant D. Graham, Sr., MFS; Arthur S. Chancellor, MA</i>
3:20 p.m. - 3:35 p.m.	Break
3:35 p.m. - 5:30 p.m.	Staged Crime Scene Red Flags and Practical Case Study Exercises <i>Grant D. Graham, Sr., MFS; Arthur S. Chancellor, MA</i>

**Targeted Audience:** Criminalistics, General, Jurisprudence, Pathology/Biology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 50 Pages



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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #10 Child Abuse: A Multidisciplinary Approach

Monday, February 13, 2017

8:30 a.m. – 5:45 p.m.

7.5 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will be able to: (1) identify the neuropathological findings of abusive head trauma, understand how the biomechanical mechanisms of inertial brain injury create these injuries, and recognize how the distinction between focal and diffuse brain injury determines the clinical presentation of timing of symptoms, such as level of consciousness; (2) properly perform a gross and microscopic examination of the eye and document the significant pathological features of retinal hemorrhages; (3) properly perform and document the evaluation of a child's fracture; and, (4) identify and exclude cases of abusive trauma to children using all relevant clinical and pathological data and information.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by assisting in the evaluation of head injuries in infants and young children as well as assisting in the evaluation of traumatic injuries to the chest, abdomen, extremities, and bones of young children. Child abuse deaths are fairly common deaths seen by forensic pathologists in jurisdictions of all sizes. These cases are extremely complex and represent some of the most difficult cases handled by forensic pathologists. Forensic pathologists can be assisted in their work on these cases by input from other medical specialties and areas of interest, including child abuse pediatrics, pediatric ophthalmology, pediatric neurosurgery, neuroradiology, as well as a general knowledge of developmental pediatrics. Familiarity with these other areas of expertise will allow forensic pathologists to better decide upon cause and manner of death and to answer questions about forensic issues such as timing of injuries and onset of unconsciousness.

*Chair:*

**Mary E.S. Case, MD**  
St. Louis, MO

*Co-Chair:*

**James R. Gill, MD**  
Office of the Chief Medical Examiner  
Farmington, CT

*Faculty:*

**Andrew M. Baker, MD**  
Hennepin County Medical Examiner's Office  
Minneapolis, MN

**Mark S. Dias, MD**  
Penn State University  
College of Medicine  
Hershey, PA

**Ronald G. Barr, MD**  
University of British Columbia  
Faculty of Medicine  
Vancouver, BC, CANADA

**Carole Jenny, MD**  
University of Washington  
School of Medicine  
Seattle, WA

**Tracey S. Corey, MD**  
Louisville, KY

**Program Description:** Child abuse pediatricians, neurosurgeons, ophthalmologists, neuroradiologists, and forensic pathologists have a common interest in accurately identifying (or excluding) cases of inflicted injury in children. Inflicted injuries in infants and young children are common injuries but are particularly challenging because they tend to be inflicted in private and outside the view of non-biased witnesses to document accurately what happened to the child. Unless a caregiver provides a history of the injury event, the diagnosis may be problematic. The purpose of this session is to bring together a variety of practitioners of the medical specialties usually concerned with abusive injuries to discuss their viewpoints on several aspects of child abuse. The most common cause of severe traumatic brain injury in young children is abuse, which accounts for most cases of head injury in children under one year of age and 10% of all traumatic deaths under five years of age. Recognition of Abusive Head Trauma (AHT) is important to assure proper administration of justice for those who have injured a child and to prevent future injury to other children. As many as 27% of victims of non-fatal AHT are reinjured after a missed diagnosis. This session will provide an overview of fatal AHT, including the



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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #10 Child Abuse: A Multidisciplinary Approach (continued)

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forensic pathologist's approach to the examination of the deceased child, the neuropathology of AHT, and the clinical aspects of AHT from a child protection pediatrician and a pediatric neurosurgeon. There will be discussion of the mechanism of shaking as a cause for AHT in young children. This session will include discussion of developmental pediatric research on the relationship of the age-related incidence curve of infant crying and the convergent curve for infant shaking as evidence for crying as a trigger to shaking of infants. There will also be discussion of inflicted injuries to the chest, abdomen, and extremities of young children, including bruise interpretation. Lastly, there will be discussion of fracture evaluation in young children and how to examine and document fractures from the forensic pathologist's viewpoint.

### Program:

8:30 a.m.	-	8:45 a.m.	Overview and Introduction <i>Mary E.S. Case, MD</i>
8:45 a.m.	-	9:45 a.m.	Autopsy Procedures in Abusive Head Trauma — National Association of Medical Examiners (NAME) Position Paper <i>James R. Gill, MD</i>
9:45 a.m.	-	10:45 a.m.	The Neuropathology of Abusive Head Trauma <i>Mary E.S. Case, MD</i>
10:45 a.m.	-	11:00 a.m.	Break
11:00 a.m.	-	12:00 p.m.	Clinical Aspects of Abusive Head Trauma <i>Carole Jenny, MD</i>
12:00 p.m.	-	12:15 p.m.	Questions and Answers
12:15 p.m.	-	1:15 p.m.	Lunch
1:15 p.m.	-	2:15 p.m.	The Case for Shaking as a Mechanism of Abusive Head Trauma <i>Mark S. Dias, MD</i>
2:15 p.m.	-	3:15 p.m.	The Relationship of Crying to Abusive Head Trauma <i>Ronald G. Barr, MD</i>
3:15 p.m.	-	3:30 p.m.	Break
3:30 p.m.	-	4:30 p.m.	Inflicted Injuries of the Chest, Abdomen, and Extremities of Young Children <i>Tracey S. Corey, MD</i>



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## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #10 Child Abuse: A Multidisciplinary Approach (continued)

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**Program cont.:**

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|-----------------------|---|
| 4:30 p.m. - 5:30 p.m. | Fracture Evaluation in the Deceased Child<br><i>Andrew M. Baker, MD</i> |
| 5:30 p.m. - 5:45 p.m. | Questions and Answers   |

**Targeted Audience:** General, Pathology/Biology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 10 Pages





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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #11 Extreme Violence in the Military: Multiple Case Studies and the Exploration of Murder, Rape, and Cold Cases in the United States Military

Monday, February 13, 2017

8:30 a.m. – 6:00 p.m.

7.5 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will understand: (1) the processing of mass murder scenes; (2) the forensic roles of military criminal investigators; (3) the responsibilities of the Armed Forces Medical Examiner; (4) investigations of United States personnel in foreign countries; (5) use of digital media in death investigations; (6) linking child pornography to cold cases; (7) gunshot range determination in suspected suicides; (8) multimodal crime scene investigation methods of rape and death scenes; (9) post-blast analysis; and, (10) methods to solve an array of violent crimes.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community through the detailed accounts of multiple violent crime scenes observed around the world, as described by the 21 special agents and a medical examiner who solved the cases. All of the crimes were investigated by the military criminal investigative organizations. The investigations will present multimodal approaches elaborating on crime scene processing, evidence collection, interrogation methodology, post-black reconstruction, medicolegal death determinations, and judicial hurdles and findings.

*Chair:*

**Brian L. Janysek, MFS**  
Oakton, VA

*Co-Chair:*

**David J. Zelif, MFS**  
Stafford, VA

*Faculty:*

**Ryan P. Brokaw, MFS**  
U.S. Army Criminal Investigation Command (CID)  
Benning CID Battalion  
Fort Benning, GA

**Kiyomi M. Griffey, MFS**  
Carlsbad, CA

**Anna Y. Castillo**  
United States Air Force Office of Special Investigation  
San Antonio, TX

**Walt Henson, BA**  
Naval Criminal Investigative Service (NCIS)  
Jacksonville, FL

**Edgar A. Collins VI, MFS**  
U.S. Army Criminal Investigation Command (CID)  
Quantico, VA

**Jason J. Keller, MFS**  
Naval Criminal Investigative Service (NCIS)  
NCISRA Great Lakes  
Great Lakes, IL

**Phillip M. Curran, MFS**  
Quantico, VA

**Edward Mazuchowski II, MD, PhD**  
Dover AFB, DE

**Louis N. Eliopoulos, BA**  
Naval Criminal Investigative Service (NCIS)  
Occuquan, VA

**Erin Michaels, MFS**  
Naval Criminal Investigative Service  
Washington DC Field Office  
Anacostia Annex, DC



New Orleans  
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# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #11 Extreme Violence in the Military: Multiple Case Studies and the Exploration of Murder, Rape, and Cold Cases in the United States Military (continued)

*Faculty cont.:*

**Steven Geniuk, MS**  
Fort Huachuca, AZ

**Elizabeth Richards, PhD**  
Defense Forensic Science Center  
Forest Park, GA

**Scott Roeske, MFS**  
Fort Sill, OK

**Kristan A. Troop, BS**  
United States Air Force Office of  
Special Investigation (AFOSI)  
Aurora, CO

**Alicia Marie Swartz Pitts, MS**  
United States Air Force Office of  
Special Investigation (AFOSI)  
Honolulu, HI

**T.L. Williams, MFS**  
Fredericksburg, VA

**Jessica Ann Veltri, MS**  
U.S. Army Criminal Investigation Command (CID)  
22<sup>nd</sup> Military Police Battalion (CID)  
Joint Base Lewis-McChord, WA

**Rachel A. Wynalda, MS**  
Naval Criminal Investigative Service  
Haleiwa, HI

**Program Description:** A group of 21 special agents and military forensic science consultants, each bringing decades of federal law enforcement experience within the United States Army Criminal Investigation Division (U.S. Army CID), Air Force Office of Special Investigations (AFOSI), and Navy Criminal Investigation Service (NCIS), will present first-hand accounts of 11 all-new, high-profile investigations from the past five years. A presentation by the Armed Forces Medical Examiner as to their capabilities will be made while also providing further insight into the various death investigations in this workshop.

### Program:

8:30 a.m. - 8:40 a.m.	Introduction <i>Brian L. Janysek, MFS; David J. Zelff, MFS</i>
8:40 a.m. - 9:00 a.m.	A U.S. Army CID, AFOSI, and NCIS Overview of Responsibilities and Capabilities <i>Edgar A. Collins VI, MFS; Elizabeth Richards, PhD; Louis N. Eliopoulos, BA</i>
9:00 a.m. - 9:40 a.m.	The Use of Specialized Forensic Techniques to Assist a Joint Homicide Investigation of a Japanese National <i>Alicia Marie Swartz Pitts, MS</i>
9:40 a.m. - 10:15 a.m.	A Death Investigation Which Occurred Over Skype in a Deployed Location <i>Ryan P. Brokaw, MFS; T.L. Williams, MFS; Jessica Ann Veltri, MS</i>
10:15 a.m. - 10:25 a.m.	Break
10:25 a.m. - 11:00 a.m.	An Investigation of a Nude and Partially Decomposed Body and the Important Role Electronic Media Now Plays in Criminal Investigations <i>Louis N. Eliopoulos, BA; Kiyomi M. Griffey, MFS</i>



New Orleans  
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# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #11 Extreme Violence in the Military: Multiple Case Studies and the Exploration of Murder, Rape, and Cold Cases in the United States Military (continued)

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**Program cont.:**

11:00 a.m. - 11:40 a.m.	Mass Casualty and Multiple Crime Scene Investigations When a Soldier Went on an Eight-Location Shooting Spree <i>Scott Roeske, MFS; Phillip M. Curran, MFS</i>
11:40 a.m. - 12:20 p.m.	The Armed Forces Medical Examiner System — As Detailed by the Armed Forces Medical Examiner <i>Edward Mazuchowski II, MD, PhD</i>
12:20 p.m. - 1:50 p.m.	Lunch
1:50 p.m. - 2:25 p.m.	30-Year-Old Child Sexual Abuse Case <i>Anna Y. Castillo</i>
2:25 p.m. - 3:00 p.m.	The Death of a United States Navy Member and a False Confession — The Importance of Collecting Arrestee DNA <i>Erin Michaels, MFS</i>
3:00 p.m. - 3:40 p.m.	Child Murder and Multiple Forms of Attempted Suicide <i>Steven Geniuk, MS</i>
3:40 p.m. - 3:55 p.m.	Break
3:55 p.m. - 4:30 p.m.	A Gunshot Wound to the Head in a Suspected Suicide in Which Range Determination Was Critical to the Manner-of-Death Determination <i>Rachel A. Wynalda, MS; Walt Henson, BA</i>
4:30 p.m. - 5:10 p.m.	The Death of an Air Force Cadet With 28 Stab Wounds <i>Kristan A. Troop, BS</i>
5:10 p.m. - 5:50 p.m.	A Post-Blast Scene Examination Following the Unexpected Detonation of Approximately 345 Explosive Rounds Killing Four Explosive Ordnance Disposal (EOD) Marines <i>Jason J. Keller, MFS</i>
5:50 p.m. - 6:00 p.m.	Questions and Answers <i>Brian L. Janysek, MFS; David J. Zelif, MFS</i>

**Targeted Audience:** Criminalistics, Digital & Multimedia Sciences, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science, Toxicology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 200 Pages



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #12 Forensic Digital Multimedia: Enhancement and Authentication

Monday, February 13, 2017

8:30 a.m. – 6:00 p.m.

8.0 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will understand the important components to digital audio and image/video enhancement and to digital audio and image/video authentication.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing a short training opportunity on the concepts of multimedia enhancement and authentication.

*Chair:*

**Jeff M. Smith, MS**

National Center for Media Forensics – CU  
Denver, CO

*Co-Chair:*

**Catalin Grigoras, PhD**

Denver, CO

**Program Description:** This workshop is a two-part, full-day workshop covering digital multimedia enhancement in the morning and digital multimedia authentication analysis in the afternoon. The goal of this workshop is to provide an overall view of conducting comprehensive digital multimedia examinations that rely on the results of multiple analyses to enhance recordings or to inform an ultimate finding or opinion. During the discussion of digital multimedia enhancement, common image and audio filters, which can be useful in processing recordings to increase intelligibility or visual details, will be discussed and presented within their respective order of operations. This order is based on the effects of sequential processing that have been researched and optimized into an order that provides optimal results. In the second half of the workshop, multimedia authentication analysis frameworks will be presented, focusing on different aspects of image/audio creation to determine both source and authenticity. Global analysis investigates the validity of multimedia as a whole, while local analysis determines temporal or pixel-level manipulation. Also, it will be demonstrated how both container and content analysis can be used to determine authenticity of recordings as well as the purported source. Container analysis exploits characteristics of the multimedia file format, which can be used to establish media provenance. Content analysis will cover both global and local analysis.

### Program:

8:30 a.m. - 10:30 a.m.	Forensic Audio Enhancement <i>Jeff M. Smith, MS</i>
10:30 a.m. - 10:45 a.m.	Break
10:45 a.m. - 12:45 p.m.	Forensic Image/Video Enhancement <i>Jeff M. Smith, MS</i>
12:45 p.m. - 1:45 p.m.	Lunch
1:45 p.m. - 3:45 p.m.	Forensic Audio Authentication <i>Catalin Grigoras, PhD</i>
3:45 p.m. - 4:00 p.m.	Break
4:00 p.m. - 6:00 p.m.	Forensic Image/Video Authentication <i>Catalin Grigoras, PhD</i>

# WORKSHOPS



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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## **#12 Forensic Digital Multimedia: Enhancement and Authentication (continued)**

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**Targeted Audience:** Digital & Multimedia Sciences

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 100 Pages



New Orleans  
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# WORKSHOPS

*Pre-Registration Required — \$150 w/registration; \$175 workshop only*

## #13 Forensics and Social Media: The Intersection of Education, Personal Promotion, and Professionalism

Monday, February 13, 2017

9:00 a.m. – 12:00 p.m.

2.75 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will be able to harness the power of social media for professional promotion while learning to avoid potential pitfalls and classic mistakes. Social media platforms to be addressed include: Instagram™, Twitter™, LinkedIn®, ResearchGate, Snapchat™, Academia.edu, Facebook®, Hootsuite™, and YouTube®.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by instructing attendees in the appropriate use, advantages, and pitfalls of social media engagement for the purposes of professionalism, education, and outreach. It is hoped that by defining and demystifying some common platforms, attendees will be encouraged to explore this brave new world of social connectivity.

*Chair:*

**Marianne Hamel, MD, PhD**  
Bethlehem, PA

*Co-Chair:*

**Kimberlee Sue Moran, MSc**  
Arcadia University  
Glenside, PA

*Faculty:*

**Anna N. Dhody, MFS**  
Mütter Museum  
The College of Physicians of Philadelphia  
Philadelphia, PA

**Program Description:** According to the Pew Research Center, nearly three-quarters of Americans use social media in some form and engage with it on a daily basis. Despite the substantial user-base, the forensic science community has done little to nothing to address the phenomenon or to integrate itself into the social media landscape. While many forensic scientists avoid social media for fear of appearing unprofessional or violating confidentiality, social media is a powerful tool for professional promotion, education of the general public, and recruitment of potential new scientists. This session intends to introduce a range of social media platforms, their use, and their potential within the forensic science community. By demystifying social media, the presenters, all of whom have extensive social media experience, hope to empower participants to become active members of the social media community.

### Program:

9:00 a.m. - 9:45 a.m.	The Professional Use of Instagram™, Twitter™, and Other Social Media Platforms <i>Marianne Hamel, MD, PhD</i>
9:45 a.m. - 10:30 a.m.	Career and Professional Development Through Social Media <i>Kimberlee Sue Moran, MSc</i>
10:30 a.m. - 10:45 a.m.	Break
10:45 a.m. - 11:30 a.m.	Institutional/Agency Promotion and Educational Outreach <i>Anna N. Dhody, MFS</i>
11:30 a.m. - 12:00 p.m.	Questions and Answers <i>Marianne Hamel, MD, PhD; Anna N. Dhody, MFS; Kimberlee Sue Moran, MSc</i>

# WORKSHOPS



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*Pre-Registration Required — \$150 w/registration; \$175 workshop only*

**#13 Forensics and Social Media: The Intersection of Education, Personal Promotion, and Professionalism (continued)**

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**Targeted Audience:** All Disciplines

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 2 Pages





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# WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## **#14 Retinal Hemorrhages (RHs) Associated With Pediatric Abusive and Non-Abusive Head Injury — Systematic Reviews and Their Evidence Base: A Review**

**Monday, February 13, 2017**

**9:00 a.m. – 1:30 p.m.**

**4.25 CE Hours**

**Educational Objective(s):** After attending this presentation, attendees will be able to: (1) list the limitations of systematic reviews of retinal hemorrhages in childhood head injuries; (2) recognize observational studies employing imprecise case definition, circularity, selection or information bias, and misrepresentation of data; (3) discuss the use of confessions in case definition for abusive head trauma; and, (4) review issues with proposed statistical tools for the diagnosis of abusive head trauma.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by exploring the value and pitfalls of systematic reviews and the selected observational studies focused on the diagnostic specificity of RHs in Abusive Head Trauma/Shaken Baby Syndrome (AHT/SBS) and of a proposed analytical tool intended to make the diagnosis of AHT/SBS more objective. This presentation will help physicians understand how to identify common problems in the underlying studies and the analyses, including logical fallacies, circularity, selection and information bias, imprecise case definition including confessions, and even misrepresentation of data.

*Chair:*

**Patrick E. Lantz, MD**

Wake Forest University  
School of Medicine  
Winston-Salem, NC

*Co-Chair:*

**Candace H. Schoppe, MD**

Southwestern Institute of Forensic Sciences  
Dallas, TX

*Faculty:*

**Maria Cuellar, MS**

Carnegie Mellon University  
Pittsburgh, PA

**Robert G. Stanulis, PhD**

Portland, OR

**Anna G. McDonald, MD**

Wake Forest Baptist Medical Center  
Winston Salem, NC

**Program Description:** After attending this presentation, attendees will better understand the role of systematic reviews and observational studies and will become more familiar with current research regarding the diagnostic specificity of RHs in pediatric AHT or SBS. Well-founded systematic reviews strive to formulate a detailed and comprehensive search strategy derived *a priori*, with the goal of reducing bias by identifying, appraising, and synthesizing all relevant studies on a subject. The strength of a systematic review depends on the reliability of the primary studies it incorporates and on the accurate assessment of those studies by the reviewers.

### **Program:**

9:00 a.m. - 9:05 a.m.

Welcome and Introduction  
*Patrick E. Lantz, MD*

9:05 a.m. - 9:30 a.m.

Observational Studies and Systematic Reviews  
*Maria Cuellar, MS; Robert G. Stanulis, PhD*



# WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #14 Retinal Hemorrhages (RHs) Associated With Pediatric Abusive and Non-Abusive Head Injury — Systematic Reviews and Their Evidence Base: A Review (continued)

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### Program cont.:

9:30 a.m. - 10:00 a.m.	Togioka et al. (2009): A Systematic Review of Retinal Hemorrhages in Abusive Head Trauma and Evidence Base <i>Candace H. Schoppe, MD</i>
10:00 a.m. - 10:30 a.m.	Bhardwaj et al. (2010): Systematic Review of Retinal Hemorrhages in Abusive Head Trauma and Evidence Base <i>Candace H. Schoppe, MD; Anna G. McDonald, MD</i>
10:30 a.m. - 10:45 a.m.	Break
10:45 a.m. - 11:15 a.m.	Piteau et al. (2012): Systematic Review of Retinal Hemorrhages in Abusive Head Trauma and Evidence Base <i>Anna G. McDonald, MD</i>
11:15 a.m. - 11:45 a.m.	Maguire et al. (2013): Systematic Review of Retinal Hemorrhages in Abusive Head Trauma and Evidence Base <i>Patrick E. Lantz, MD</i>
11:45 a.m. - 12:15 p.m.	Validity of Confessions in Cases of Abusive Head Trauma <i>Robert G. Stanulis, PhD</i>
12:15 p.m. - 12:45 p.m.	Review of a Statistical Tool to Aid in the Diagnosis of Abusive Head Trauma <i>Maria Cuellar, MS</i>
12:45 p.m. - 1:00 p.m.	Summary and Conclusions <i>Patrick E. Lantz, MD</i>
1:00 p.m. - 1:30 p.m.	Questions and Discussion <i>Patrick E. Lantz, MD; Candace H. Schoppe, MD; Anna G. McDonald, MD; Maria Cuellar, MS; Robert G Stanulis, PhD</i>

**Targeted Audience:** Engineering Sciences, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 25

**Restricted Audience Size:** 150

*Registration is limited to the first 150 registrants.*



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #15 Considerations for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis

Monday, February 13, 2017

1:00 p.m. – 5:30 p.m.

4.25 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will understand how forensic science experts collaborate with crime scene personnel in evaluating physical evidence present and will be able to render expert opinions and testimony for the successful outcome of the investigation. Attendees will be better able to assess which items of physical evidence could generate more probative value from expert analysis. Methods to minimize evidence contamination prior to expert analysis will also be addressed.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by challenging law enforcement personnel, crime scene investigators (death investigators), and forensic science specialists (entomologists and anthropologists) to recognize and increase their knowledge base on how a collaborative effort with experts can and will increase the successful outcome of a criminal investigation.

*Chair:*

**Sharon L. Plotkin, MS**  
Miami Dade College  
Miami, FL

*Co-Chair:*

**Jason H. Byrd, PhD**  
University of Florida  
Maples Center for Forensic Medicine  
Gainesville, FL

*Faculty:*

**Teresa A. White, MA**  
Missoula, MT

**Program Description:** This session will be presented by a crime scene investigator and two forensic experts who will address issues that have been present at crime scenes, discuss the difficulties in rendering expert testimony due to crime scene-related issues, and explain how to overcome such obstacles in the hope of assisting in such cases in the future.

### Program:

1:00 p.m. - 2:00 p.m.	Aspects of Some Crime Scenes That May Impact Expert Witness Testimony <i>Sharon L. Plotkin, MS</i>
2:00 p.m. - 3:15 p.m.	What Crime Scene Investigators Should Know About Forensic Entomology and Working With Reports From Forensic Entomologists <i>Jason H. Byrd, PhD</i>
3:15 p.m. - 3:30 p.m.	Break
3:30 p.m. - 4:45 p.m.	How Forensic Anthropologists Can Assist Investigators With Crime Analysis <i>Teresa A. White, MA</i>
4:45 p.m. - 5:15 p.m.	A Multidisciplinary Crime Scene Scenario Case Study Utilizing a Multidisciplinary Approach <i>Jason H. Byrd, PhD; Teresa A. White, MA</i>
5:15 p.m. - 5:30 p.m.	Questions and Answers <i>Sharon L. Plotkin, MS; Jason H. Byrd, PhD; Teresa A. White, MA</i>

# WORKSHOPS



New Orleans  
2017

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## **#15 Considerations for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis (continued)**

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**Targeted Audience:** Anthropology, Criminalistics, General, Pathology/Biology

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 12 pages



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #16 The AAFS Humanitarian and Human Rights Resource Center: Year Two

Tuesday, February 14, 2017

8:30 a.m. – 12:00 p.m.

3.0 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will understand the structure of the AAFS Humanitarian and Human Rights Resource Center (HHRRC) and its impact on multiple global projects.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by raising awareness of the structure and accomplishments of the AAFS HHRC and the important developments in the global application of humanitarian and human rights forensic science.

*Chair:*

**Douglas H. Ubelaker, PhD**  
Smithsonian Institution  
Department of Anthropology  
Washington, DC

*Co-Chair:*

**Morris V. Tidball-Binz, MD**  
International Committee of the Red Cross  
Geneva, SWITZERLAND

*Faculty:*

**Eric J. Bartelink, PhD**  
California State University, Chico  
Department of Anthropology  
Chico, CA

**Katie M. Rubin, MS**  
C.A. Pound Human Identification Laboratory  
Gainesville, FL

**Roxana Enriquez, MA**  
Equipo Mexicana de Antropologia Forense, A.C.  
Queretara, MEXICO

**Dolores Soto, PhD**  
Fray Juan de Larios Human Rights Center  
Mexico City, MEXICO

**Julie M. Fleischman, MS**  
Michigan State University  
East Lansing, MI

**Duarte Nuno Vieira, MSc, PhD, MD**  
Coimbra, PORTUGAL

**Luis Fondebrider, PhD**  
Buenos Aires, ARGENTINA

**Program Description:** This workshop will provide current information on the development, structure, and progress sustained with the AAFS Humanitarian and Human Rights Resource Center. This workshop will also provide perspective from key practitioners regarding global developments and issues relating to humanitarian and human rights forensic science.

**Program:**

- |                       |  |
|-----------------------|--|
| 8:30 a.m. - 8:45 a.m. | Introduction<br><i>Douglas H. Ubelaker, PhD</i>  |
| 8:45 a.m. - 9:05 a.m. | Humanitarian and Human Rights Forensic Science in Today's World<br><i>Morris V. Tidball-Binz, MD</i>             |
| 9:05 a.m. - 9:25 a.m. | Forensic Investigation and Documentation of Torture and Ill-Treatment<br><i>Duarte Nuno Vieira, MSc, PhD, MD</i> |



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

### #16 The AAFS Humanitarian and Human Rights Resource Center: Year Two (continued)

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**Program cont.:**

9:25 a.m. - 9:45 a.m.	South-South Cooperation in Building Local Forensic Capacity <i>Luis Fondebrider, PhD</i>
9:45 a.m. - 10:05 a.m.	The Uptake and Detection of Nerve Agents in Human Bone: A Potential Application of Forensic Toxicology to Forensic Anthropological Analyses of Mass Graves <i>Katie M. Rubin, MS</i>
10:05 a.m. - 10:20 a.m.	Break
10:20 a.m. - 10:40 a.m.	Government and Civil Society Strategies: Strengthening the Human Identification Department of the PGJE-Tlaxcala, Mexico <i>Roxana Enriquez, MA</i>
10:40 a.m. - 11:00 a.m.	The Exhumation and Identification Program of Coahuila, Mexico: An Agenda Pull by Relatives of Disappeared Persons in the Midst of a Human Rights Crisis <i>Dolores Soto, PhD</i>
11:00 a.m. - 11:20 a.m.	Stable Isotope Forensics as an Investigative Tool for Geolocating Unidentified Border Crossers From the Texas-Mexico Border <i>Eric J. Bartelink, PhD</i>
11:20 a.m. - 11:40 a.m.	The Conservation and Analysis of Human Remains From the Khmer Rouge Era Mass Violence: An Anthropological Project in Krang Ta Chan, Cambodia <i>Julie M. Fleischman, MS</i>
11:40 a.m. - 12:00 p.m.	Summary and Discussion <i>Douglas H. Ubelaker, PhD</i>

**Targeted Audience:** Anthropology, Criminalistics, General, Jurisprudence, Odontology, Pathology/Biology, Toxicology

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 5 Pages



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #17 Communication Strategies to Mitigate Bias and Strengthen Scientific Foundations in Forensic Science

Tuesday, February 14, 2017

8:30 a.m. – 12:30 p.m.

3.0 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will recognize the myriad ways in which cognitive and linguistic biases can inadvertently affect judgment and, with heightened awareness, attendees will be able to select from a variety of potential solutions for reducing bias.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing immediate methods for reducing cognitive and confirmation biases in the forensic science workflow from initiation of forensic analysis to trial.

*Chair:*

**Carole E. Chaski, PhD**  
ALIAS Technology, LLC  
Institute for Linguistic Evidence  
Georgetown, DE

*Co-Chair:*

**Roderick T. Kennedy, JD**  
New Mexico Court of Appeals  
Albuquerque, NM

*Faculty:*

**Cristina Aggazzotti, MS**  
Harvard University  
Department of Linguistics  
Cambridge, MA

**E. Allyn Smith, PhD**  
University of Quebec at Montreal  
Dépt de Linguistique  
Montreal, PQ, CANADA

**Katherine Ramsland, PhD**

DeSales University  
Center Valley, PA

**Program Description:** This workshop includes presentations by a range of experts presenting state-of-the-art strategies for mitigating bias and strengthening methodologies in the laboratory, workplace, and courtroom. Hands-on exercises will follow each presentation to encourage interaction with the audience and to enable attendees to practice each skill as soon as they have learned about it as well as to tailor it to their own job-specific environments. The exercises will also create topics for the discussion period at the end of the workshop, when attendees will be able to ask questions of the panelists and propose topics for further discussion across the represented fields.

### Program:

8:30 a.m. - 9:00 a.m.	Introduction <i>Cristina Aggazzotti, MS</i>
9:00 a.m. - 9:30 a.m.	Overcoming Cognitive Defaults <i>Katherine Ramsland, PhD</i>
9:30 a.m. - 10:00 a.m.	Combating Bias: The Metalinguistic Filter and Reliable Science <i>Carole E. Chaski, PhD</i>
10:00 a.m. - 10:30 a.m.	Open Discussion and Questions and Answers <i>Cristina Aggazzotti, MS</i>





New Orleans  
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# WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## **#17 Communication Strategies to Mitigate Bias and Strengthen Scientific Foundations in Forensic Science (continued)**

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**Program cont.:**

10:30 a.m. - 11:00 a.m.	Break
11:00 a.m. - 11:30 a.m.	Requests, Questions, and Statements: How We Say Things Matters <i>E. Allyn Smith, PhD</i>
11:30 a.m. - 12:00 p.m.	Insulating Experts, Protecting Results <i>Roderick T. Kennedy, JD</i>
12:00 p.m. - 12:30 p.m.	Open Discussion and Questions and Answers <i>Cristina Aggazzotti, MS</i>

**Targeted Audience:** Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, Jurisprudence, Psychiatry & Behavioral Science, Questioned Documents

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 50 Pages



New Orleans  
2017

## WORKSHOPS

*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

### #18 The Opiate Crisis, Dirty Bombs, Big Data/Big Problems, and Driverless Cars: On the Leading Edge of Forensic Science — 2017 Theoretical Forensic Sciences “Think Tank”

Tuesday, February 14, 2017

8:30 a.m. – 12:30 p.m.

3.5 CE Hours

**Educational Objective(s):** The goal of this presentation is to describe how new developments might impact forensic scientists in their work. Practical examples will be presented on lab automation, driverless cars, designer drugs, nuclear forensics, cybercrime, and big data.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing an overview of some of the new developments in forensic science and by opening a forum for the discussion of issues that arise regarding such developments.

*Chair:*

**Laura L. Liptai, PhD**  
BioMedical Forensics  
Moraga, CA

*Co-Chair:*

**Zeno J. Geradts, PhD**  
Netherlands Forensic Institute  
Den Haag, NETHERLANDS

*Faculty:*

**Ivo Alberink, PhD**  
Netherlands Forensic Institute  
The Hague, Zuid-Holland, NETHERLANDS

**Barry K. Logan, PhD**  
NMS Labs/The Center for  
Forensic Science Research and Education  
Willow Grove, PA

**Eoghan Casey, PhD**  
University of Lausanne  
Lausanne, Vaud, SWITZERLAND

**Michael F. Rieders, PhD**  
NMS LABS  
Willow Grove, PA

**Pierre G. Cassigneul, MA**  
NMS Labs  
Willow Grove, PA

**Eduard Van Zalen, MSc**  
Netherlands Forensic Institute  
The Hague, South Holland, NETHERLANDS

**Lucy A. Davis, BHS**  
LDH Consultants  
Pikeville, KY

**Program Description:** Digital cameras were invented in 1975; as with all exponential technologies, 10,000 pixels were a disappointment until digital capabilities became superior and went mainstream in a matter of years. This will now happen with artificial intelligence, health, autonomous cars, education, 3D printing, agriculture, jobs, and ... yes, forensics. Big data, cybercrime and privacy, as well as genetic profiling, can become privacy issues if not handled well. This workshop will delve deeply into nuclear forensics, designer drugs, as well as new insights given on how to keep up with these fast-moving developments.

**Program:**

8:30 a.m. - 8:40 a.m.

Opening Remarks and Introductions  
*Laura L. Liptai, PhD; Zeno J. Geradts, PhD*



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

### #18 The Opiate Crisis, Dirty Bombs, Big Data/Big Problems, and Driverless Cars: On the Leading Edge of Forensic Science — 2017 Theoretical Forensic Sciences “Think Tank” (continued)

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#### Program cont.:

8:40 a.m. - 8:50 a.m.	The World is Revolutionizing: Technological Advances Including Driverless Vehicle System Performance <i>Laura L. Liptai, PhD</i>
8:50 a.m. - 9:50 a.m.	Designer Drugs Are Changing the Practice of Forensic Toxicology <i>Pierre G. Cassigneul, MA; Barry K. Logan, PhD; Michael F. Rieders, PhD</i>
9:50 a.m. - 10:20 a.m.	Virtual Identities and Forensic Science: Cybercrime, Digital Evidence, and Privacy <i>Eoghan Casey, PhD</i>
10:20 a.m. - 10:35 a.m.	Break
10:35 a.m. - 11:05 a.m.	Examples of Bayesian Approach in Reports <i>Ivo Alberink, PhD</i>
11:05 a.m. - 11:35 a.m.	Nuclear Forensics and Chemical, Biological, Radiological, and Nuclear (CBRN) <i>Eduard Van Zalen, MSc</i>
11:35 a.m. - 12:05 p.m.	Genetic Information: Who You Are Out in the World and What Do You Think? <i>Lucy A. Davis, BHS</i>
12:05 p.m. - 12:25 p.m.	Big Data, Dark Networks, and Future Expectations <i>Zeno J. Geradts, PhD</i>
12:25 p.m. - 12:30 p.m.	Closing Remarks <i>Laura L. Liptai, PhD; Zeno J. Geradts, PhD</i>

**Targeted Audience:** Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science, Questioned Documents, Toxicology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 100 Pages



New Orleans  
2017

## WORKSHOPS

*Pre-Registration Required — \$125 w/registration; \$150 workshop only*

### #19 Women in the Sciences: Examining Systemic Barriers and Becoming Agents of Change

Tuesday, February 14, 2017

8:30 a.m. – 12:55 p.m.

3.75 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will become better acquainted with the state of female representation in the sciences. Attendees will also learn how this representation has shifted over the past several decades, the systemic inequalities in equity and parity between the sexes, and gender-specific micro- and macro-aggressions. Finally, attendees will discuss how these issues manifest within the forensic sciences and how to work collaboratively to conceive strategies for change.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by demonstrating how gender-specific societal bias in the sciences creates barriers for the advancement of women, contributes to gender inequity in leadership positions, and undermines forensic science’s ability to live up to its full potential.

*Chair:*

**Ann H. Ross, PhD**  
North Carolina State University  
Department of Biological Sciences  
Raleigh, NC

*Co-Chair:*

**Shanna E. Williams, PhD**  
University of South Carolina School of Medicine  
Greenville Biomedical Sciences Department  
Greenville, SC

*Faculty:*

**Chelsey A. Juarez, PhD**  
North Carolina State University  
Department of Sociology and Anthropology  
Raleigh, NC

**Phoebe R. Stubblefield, PhD**  
University of North Dakota  
Department of Anthropology  
Grand Forks, ND

**Program Description:** This four-part, half-day workshop will begin by providing an overview of the current trajectory of women in the sciences and conclude by discussing current approaches and best practices to capturing and capitalizing on female talent. Finally, the audience will be challenged to create action plans to limit systemic barriers and societal biases that deprive the American Academy of Forensic Sciences and their own institutions/organizations of talented and accomplished women across all levels of leadership.

**Program:**

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|-----------------------|---|
| 8:30 a.m. - 8:50 a.m. | Introduction of Panelists<br><i>Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD</i>                              |
| 8:50 a.m. - 9:15 a.m. | An Overview of Challenges to Women in Forensic Science<br><i>Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD</i> |
| 9:15 a.m. - 9:30 a.m. | Small Group Session: Word Network Analysis<br><i>Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD</i>             |



# WORKSHOPS

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*Pre-Registration Required — \$125 w/registration; \$150 workshop only*

## #19 Women in the Sciences: Examining Systemic Barriers and Becoming Agents of Change (continued)

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**Program cont.:**

- 9:30 a.m. - 10:00 a.m.      A Review of Networks and a Development of Recruitment Strategies: Overcoming Perceived Costs to a Science Career  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 10:00 a.m. - 10:20 a.m.      Reasonable Professional Progress in an Institution: Probation, Promotions, Transfers, and Tenure  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 10:20 a.m. - 10:40 a.m.      Individual Reflective Writing
- 10:40 a.m. - 10:55 a.m.      Break
- 10:55 a.m. - 11:25 a.m.      The Major Work-Life/Education-Life Challenges: Sexual Harassment — Recognizing Predatory Behavior, Title IX Responses, Grievances, and Life Balance (Family Building, Physical Health, and Mental Health)  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 11:25 a.m. - 11:55 a.m.      Small Group  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 11:55 a.m. - 12:25 p.m.      The Future of Science Careers and How It May Affect Women: Automation and Distance Education  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 12:25 p.m. - 12:40 p.m.      Small Group Review: A Summary of Strategies at Each Level — Institutional Culture, Recruitment, Work-Life, and Major Challenges  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*
- 12:40 p.m. - 12:55 p.m.      Closing Remarks, Discussion, and Distribution of Additional Resources  
*Ann H. Ross, PhD; Shanna E. Williams, PhD; Chelsey A. Juarez, PhD; Phoebe R. Stubblefield, PhD*



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$125 w/registration; \$150 workshop only*

**#19 Women in the Sciences: Examining Systemic Barriers and Becoming Agents of Change (continued)**

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**Targeted Audience:** All Disciplines

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 25 Pages

**Restricted Audience Size:** 30

*Registration is limited to the first 30 registrants.*



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #20 Instrumental Chromatographic Separation Techniques for Forensic Analyses: Application to the Analysis of Emerging Drugs

Tuesday, February 14, 2017

8:30 a.m. – 4:30 p.m.

5.75 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will be better able to evaluate and select the proper chromatographic technique(s) for separating complex mixtures that are necessary for the analysis of emerging drugs present in seized drug-evidence submissions and toxicological samples.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing attendees with a respectable and fundamental understanding of the different modern separation techniques and how they have been applied to the analysis of emerging drugs in forensic exhibits. This workshop has a strong interdisciplinary focus.

*Chair:*

**Ira S. Lurie, PhD**

George Washington University  
Department of Forensic Science  
Washington, DC

*Co-Chair:*

**Bruce R. McCord, PhD**

Florida International University  
Department of Chemistry  
Miami, FL

*Faculty:*

**H. Chip Walls, BS**

Forensic, Analytical & Clinical Toxicology Lab  
Miami, FL

**Program Description:** This workshop will provide attendees with a helpful overview of the use of modern instrumental chromatographic techniques such as capillary Gas Chromatography (GC), Ultra High-Performance Liquid Chromatography (UHPLC), and Ultra High-Performance Supercritical Fluid Chromatography (UHPSFC) for the separation of emerging drugs in both drug seizures and toxicological samples.

**Program:**

8:30 a.m. - 8:45 a.m.	Introduction <i>Ira S. Lurie, PhD</i>
8:45 a.m. - 9:15 a.m.	The Theory of Chromatography <i>Bruce R. McCord, PhD</i>
9:15 a.m. - 10:00 a.m.	Sample Preparation Techniques <i>Bruce R. McCord, PhD</i>
10:00 a.m. - 11:00 a.m.	Gas Chromatography <i>H. Chip Walls, BS</i>
11:00 a.m. - 11:15 a.m.	Break
11:15 a.m. - 12:30 p.m.	HPLC, UHPLC, SFC, and UHPSFC <i>Ira S. Lurie, PhD</i>





New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### **#20 Instrumental Chromatographic Separation Techniques for Forensic Analyses: Application to the Analysis of Emerging Drugs (continued)**

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**Program cont.:**

12:30 p.m. - 2:00 p.m.	Lunch
2:00 p.m. - 2:45 p.m.	A Comparison of GC, UHPLC, and UHPSFC for the Analysis of Emerging Drugs Present in Seized Drugs <i>Ira S. Lurie, PhD</i>
2:45 p.m. - 3:30 p.m.	Chromatographic Analysis of Emerging Drugs in Toxicological Samples <i>H. Chip Walls, BS</i>
3:30 p.m. - 3:45 p.m.	Break
3:45 p.m. - 4:30 p.m.	Discussion and Future Directions <i>Ira S. Lurie, PhD; Bruce R. McCord, PhD; H. Chip Walls, BS</i>

**Targeted Audience:** Criminalistics, Toxicology

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 80 Pages



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #21 Forensic Photography and the Exposure Triangle: What Every Forensic Professional Should Know About ISO, Depth of Field (DOF), and Shutter Speed (SS)

Tuesday, February 14, 2017

8:30 a.m. – 4:30 p.m.

6.25 CE Hours

**Educational Objective(s):** After attending this presentation, attendees will better understand the proper use of a Digital Single-Lens Reflex (DSLR) camera for crime scene, sexual assault, autopsy, and laboratory work. Specific focus will be placed on understanding the “exposure triangle,” which includes settings for ISO, DOF, and SS, and the importance of knowing how to adjust each component in order to properly capture forensic evidence for presentation at a later date in a criminal or civil trial. In addition, best practices and legal standards will be presented. Compression levels and when to utilize which level of compression will be taught, so attendees can properly image crime scenes and other forensic evidence in the proper format.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing professionals with a greater understanding of how photography is one of the three primary means of documenting crime scenes, autopsy findings, physical injury, and forensic evidence; yet, it remains the least-understood and least-trained discipline. This training will enhance the attendees’ knowledge and competency when using a DSLR camera in the performance of their duties to properly document crime scenes and forensic evidence.

*Chair:*

**David G. Pauly, MFS**  
Methodist University  
Forensic Science Program  
TruForensics, LLC  
Fayetteville, NC

*Co-Chair:*

**Steven L. Downs, MFS**  
Methodist University  
Fayetteville, NC

*Faculty:*

**Dyer Bennett, BS**  
Sirchie  
Youngsville, NC

**Kelly Taylor, BS**  
Womack Army Medical Center  
Fort Bragg, NC

**Serena Hare, BS**  
Fayetteville, NC

**Program Description:** This hands-on practical session will guide the attendee from understanding basic camera operations to comprehending the exposure triangle and aspects of macro, telephoto, and complex scene photography.

### Program:

8:30 a.m. - 9:45 a.m.	The Basics of the Exposure Triangle <i>David G. Pauly, MFS</i>
9:45 a.m. - 10:00 a.m.	Break
10:00 a.m. - 11:15 a.m.	Hands-On Practical Exercise: Changing ISO and the Impact of Various ISO’s <i>David G. Pauly, MFS; Steven L. Downs, MFS; Dyer Bennett, BS; Serena Hare, BS</i>
11:15 a.m. - 11:30 a.m.	Break



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### **#21 Forensic Photography and the Exposure Triangle: What Every Forensic Professional Should Know About ISO, Depth of Field (DOF), and Shutter Speed (SS) (continued)**

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**Program cont.:**

11:30 a.m. - 12:30 p.m.	Hands-On Practical Exercise: Shutter Speed Settings and the Impact of Long Versus Fast Exposure <i>David G. Pauly, MFS; Steven L. Downs, MFS; Dyer Bennett, BS; Kelly Taylor, BS; Serena Hare, BS</i>
12:30 p.m. - 1:30 p.m.	Lunch
1:30 p.m. - 2:00 p.m.	Hands-On Practical Exercise Continued: SS, ISO, DOF, and Painting With Light (PWL) <i>David G. Pauly, MFS; Steven L. Downs, MFS; Dyer Bennett, BS; Kelly Taylor, BS; Serena Hare, BS</i>
2:00 p.m. - 2:45 p.m.	Sexual Assault Imaging of Victim and Suspect Wounds or Absence of Injuries <i>Kelly Taylor, BS</i>
2:45 p.m. - 3:00 p.m.	Break
3:00 p.m. - 4:15 p.m.	Discussion of Macro Photography and Macro Lens Practical Hands-On Exercise <i>David G. Pauly, MFS; Steven L. Downs, MFS; Dyer Bennett, BS; Kelly Taylor, BS; Serena Hare, BS</i>
4:15 p.m. - 4:30 p.m.	Conclusion and Review <i>David G. Pauly, MFS</i>

**Targeted Audience:** Anthropology, Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Questioned Documents

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 30 Pages

**Restricted Audience Size:** 70

**Supported by:** Sirchie and Methodist University

*This workshop is limited to the first 70 registrants. This workshop includes hands-on practical training. Participants are encouraged to bring a work or personal camera to the workshop.*



New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #22 Viewing Research Through Different Lenses: How to Achieve Success in Court

Tuesday, February 14, 2017

8:30 a.m. – 5:30 p.m.

7.25 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will better understand the value of scientific research in their courtroom practice. Participants will understand the value of scientific research and how to identify credible reference material, interpret information, and access such materials through the internet. Practitioners, such as forensic investigators, researchers, and lawyers, view scientific information through different lenses. Determining what is valuable and where to locate these resources is often challenging.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by raising awareness of practitioners, scientists, and lawyers to high-quality, no-cost, as well as paid, resources available through the internet and online materials. Those in attendance will take such awareness back to their respective employers and potentially increase the use of such materials by associated individuals and their organizations. Improving participants' skills in evaluating and locating information sources could decrease their reliance on materials of questionable value.

*Chair:*

**Jeffery K. Tomberlin, PhD**  
Texas A&M University  
Department of Entomology  
College Station, TX

*Co-Chair:*

**Heather R. Jordan, PhD**  
Mississippi State University  
Mississippi State, MS

*Faculty:*

**Sarah Bankston, MS**  
Texas A&M University  
Medical Sciences Library  
College Station, TX

**Pamela A.W. King, JD**  
Rochester, MN

**M. Eric Benbow, PhD**  
Michigan State University  
Department of Entomology & Osteopathic  
Medical Specialties  
East Lansing, MI

**Joseph J. Maltese, JD, PhD**  
New York Supreme Court, Appellate Division  
Second Judicial Department  
Staten Island, NY

**Diana Botluk, JD**  
Barry University School of Law  
Law Library  
Orlando, FL

**Jennifer L. Pechal, PhD**  
Michigan State University  
Department of Entomology  
East Lansing, MI

**Jonathan A. Cammack, PhD**  
Texas A&M University  
Department of Entomology  
College Station, TX

**Haskell M. Pitluck, JD**  
Crystal Lake, IL

**Stephanie Domitrovich, JD, PhD**  
Sixth Judicial District of PA  
Erie County Court House  
Erie, PA

**Laura Sare, MS**  
Texas A&M University  
College, TX



New Orleans  
2017

# WORKSHOPS

*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #22 Viewing Research Through Different Lenses: How to Achieve Success in Court (continued)

*Faculty cont.:*

**Roderick T. Kennedy, JD**  
New Mexico Court of Appeals  
Albuquerque, NM

**Donald E. Shelton, JD, PhD**  
University of Michigan-Dearborn  
Criminal Justice Program  
Dearborn, MI

**Program Description:** Practitioners, such as forensic practitioners, researchers, and lawyers, view scientific and associated legal information through different lenses. This workshop will provide participants with valuable tools to allow them to assess published research and determine the most appropriate materials for use in court.

**Program:**

8:30 a.m. - 8:40 a.m.	Welcoming Remarks <i>Jeffery K. Tomberlin, PhD</i>
8:40 a.m. - 9:00 a.m.	Forensic Entomology and Its Applications <i>Jeffery K. Tomberlin, PhD; Jonathan A. Cammack, PhD</i>
9:00 a.m. - 9:20 a.m.	Limitations and Applications of Forensic Entomology <i>Jeffery K. Tomberlin, PhD; Jonathan A. Cammack, PhD</i>
9:20 a.m. - 9:40 a.m.	Forensic Microbiology and Its Applications Today <i>Heather R. Jordan, PhD; M. Eric Benbow, PhD</i>
9:40 a.m. - 10:00 a.m.	Limitations and Applications of Forensic Microbiology <i>Heather R. Jordan, PhD; Jennifer L. Pechal, PhD</i>
10:00 a.m. - 10:15 a.m.	Break
10:15 a.m. - 11:45 a.m.	Panel: Academic, Law, Practitioner — What’s Available? <i>Sarah Bankston, MS; Diana Botluk, JD, MS; Laura Sare, MS</i>
11:45 a.m. - 12:30 p.m.	Ethics in Research and Perturbations in the Courtroom: A View From the Bench <i>Jeffery K. Tomberlin, PhD; Stephanie Domitrovich, JD, PhD</i>
12:30 p.m. - 1:30 p.m.	Lunch
1:30 p.m. - 2:10 p.m.	Breakout Session 1 <i>Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD</i>



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #22 Viewing Research Through Different Lenses: How to Achieve Success in Court (continued)

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**Program cont.:**

- 2:10 p.m. - 2:40 p.m.      Breakout Session 1 — Discussion  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD*
- 2:40 p.m. - 3:20 p.m.      Breakout Session 2  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD*
- 3:20 p.m. - 3:35 p.m.      Break
- 3:35 p.m. - 4:05 p.m.      Breakout Session 2 — Discussion  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD*
- 4:05 p.m. - 4:45 p.m.      Breakout Session 3  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD*
- 4:45 p.m. - 5:15 p.m.      Breakout Session 3 — Discussion  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Roderick T. Kennedy, JD; Pamela A.W. King, JD; Joseph J. Maltese, JD, PhD; Jennifer L. Pechal, PhD; Haskell M. Pitluck, JD; Laura Sare, MS; Donald E. Shelton, JD, PhD*
- 5:15 p.m. - 5:30 p.m.      A Review of the Resources Available and the Next Steps Forward  
*Jeffery K. Tomberlin, PhD; Heather R. Jordan, PhD; Sarah Bankston, MS; M. Eric Benbow, PhD; Diana Botluk, JD, MS; Jonathan A. Cammack, PhD; Stephanie Domitrovich, JD, PhD; Pamela A.W. King, JD; Jennifer L. Pechal, PhD; Laura Sare, MS*
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New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

**#22 Viewing Research Through Different Lenses: How to Achieve Success  
in Court (continued)**

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**Targeted Audience:** All Disciplines

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 10 Pages

**Restricted Audience Size:** 54

*Registration is limited to the first 54 registrants.*





New Orleans  
2017

# WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

## #23 Fundamentals of Printing and Graphic Arts Examinations

Tuesday, February 14, 2017

9:00 a.m. – 5:00 p.m.

6.5 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will: (1) learn about the various types of office and commercial printing processes as well as the basic microscopic characteristics used to differentiate printing technologies through discussion of the fundamental concepts associated with examination and comparison of various printing technologies; and, (2) gain experience regarding printing/graphic arts examinations by case studies and hands-on assessment of actual specimens.

**Impact on the Forensic Science Community:** This presentation will impact the forensic science community by providing forensic document examiners with the knowledge and introductory experience to conduct printing process examinations.

*Chair:*

**Lindsey N. Dyn, MFS**  
Quantico, VA

*Co-Chair:*

**Linton Mohammed, PhD**  
Forensic Science Consultants, Inc.  
Burlingame, CA

*Faculty:*

**Peter J. Belcastro, Jr., MA**  
Federal Bureau of Investigation  
Quantico, VA

**Program Description:** This workshop will address the classification and recognition of various printing processes by their physical and microscopic characteristics. This workshop will encompass an overview of office technologies (e.g., ink jet and toner processes) and commercial technologies (e.g., lithographic and relief processes) and will involve the practical application of the information provided to the identification of various printing samples. The examination process and standards needed for comparisons will be introduced and reinforced via comparison exercises. Various conclusions and results verbiage will also be discussed.

### Program:

9:00 a.m. - 10:45 a.m.	Printing Classification <i>Lindsey N. Dyn, MFS; Peter J. Belcastro, Jr., MA</i>
10:45 a.m. - 11:00 a.m.	Break
11:00 a.m. - 12:30 p.m.	Hands-On Classification Exercises <i>Lindsey N. Dyn, MFS; Peter J. Belcastro, Jr., MA</i>
12:30 p.m. - 1:30 p.m.	Lunch
1:30 p.m. - 3:15 p.m.	Printing Identification and Source Determination: Case Studies, Discussion, and Practical Problems <i>Lindsey N. Dyn, MFS; Peter J. Belcastro, Jr., MA</i>
3:15 p.m. - 3:30 p.m.	Break
3:30 p.m. - 4:30 p.m.	Source Determination: Examples of Wording <i>Lindsey N. Dyn, MFS; Peter J. Belcastro, Jr., MA</i>



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$200 w/registration; \$250 workshop only*

### #23 Fundamentals of Printing and Graphic Arts Examinations (continued)

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**Program cont.:**

4:30 p.m. - 5:00 p.m.

Questions and Answers

*Lindsey N. Dyn, MFS; Peter J. Belcastro, Jr., MA*

**Targeted Audience:** Questioned Documents

**Knowledge Level Required:** Intermediate (some knowledge of subject presented)

**Expected Handout Length:** 15 Pages

**Restricted Audience Size:** 24

**Supported by:** Vashaw Scientific

*Registration is limited to the first 24 registrants. Registration is limited to AAFS members until January 15, 2017. Participants should bring a 3-5x magnification loupe to the workshop.*



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2017

# WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

## #24 Navigating the Sea of Resources for Sexual Assault Programs

Tuesday, February 14, 2017

1:30 p.m. – 4:30 p.m.

2.75 CE Hours

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**Educational Objective(s):** After attending this presentation, attendees will understand best practices for seeking resources, including federal funding to improve policy, efficiency, and operational sustainability in the processing of Sexual Assault Kits (SAKs) and forensic evidence in their agencies and forensic laboratories. Furthermore, this workshop will bring an understanding of the benefits, comparative differences, and requirements to enable funding consideration and use.

**Impact on the Forensic Science Community:** This workshop will impact the forensic science community by highlighting how federal resources in the United States can advance victim-centered support programs, investigations, and forensic services that aid sexual assault programs, especially the processing of untested SAKs and forensic evidence, which bolster the criminal justice process.

*Chair:*

**Jeri D. Roper-Miller, PhD**  
RTI International  
Research Triangle Park, NC

*Co-Chair:*

**Charles M. Heurich, MFS**  
National Institute of Justice  
Department of Justice  
Washington, DC

*Faculty:*

**Patricia A. Foley-Melton, PhD**  
RTI International Center for Forensic Science  
Research Triangle Park, NC

**Jill L. Spriggs, MBA**  
Sacramento County District Attorney's Office  
Laboratory of Forensic Sciences  
Sacramento, CA

**Heather LaSalle, MS**  
FBI Laboratory  
DNA  
Quantico, VA

**Heather E. Waltke, MS**  
National Institute of Justice  
Office of Investigative and Forensic Sciences  
Washington, DC

**Kimberly B. Murga, MFS**  
Las Vegas Metro Police Department  
Forensic Laboratory  
Las Vegas, NV

**Program Description:** This workshop will include federal agency representatives, laboratory practitioners, researchers, and technology advocates who will provide varying perspectives for resources of sexual assault programs. Each will share how the programs they represent, or have used, continue to transform the landscape of sexual assault investigations and forensic services using evidenced-based practices to advance the latest technology, improve program policy, and reduce the number of untested SAKs and other forensic evidence nationwide.

**Program:**

1:30 p.m. - 1:35 p.m.      Opening Remarks and Program Overview  
*Jeri D. Roper-Miller, PhD*

1:35 p.m. - 1:45 p.m.      Research in Investigative and Forensic Sciences  
*Heather E. Waltke, MS*



New Orleans  
2017

## WORKSHOPS

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*Pre-Registration Required — \$100 w/registration; \$125 workshop only*

### #24 Navigating the Sea of Resources for Sexual Assault Programs (continued)

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**Program cont.:**

1:45 p.m.	-	2:15 p.m.	DNA Funding for Sexual Assault Cases: Capacity Enhancement and Backlog Reduction (CEBR) in Cold Case Investigations <i>Charles M. Heurich, MFS</i>
2:15 p.m.	-	2:35 p.m.	National Sexual Assault Kit Initiative <i>Patricia A. Foley-Melton, PhD</i>
2:35 p.m.	-	2:45 p.m.	Questions and Answers <i>Jeri D. Roper-Miller, PhD; Charles M. Heurich, MFS; Heather E. Waltke, MS; Patricia A. Foley-Melton, PhD</i>
2:45 p.m.	-	3:00 p.m.	Break
3:00 p.m.	-	3:20 p.m.	National Institute of Justice-Federal Bureau of Investigation (NIJ-FBI) Sexual Assault Kit Partnership <i>Heather E. Waltke, MS; Heather LaSalle, MS</i>
3:20 p.m.	-	3:40 p.m.	Utilization of Multiple Funding Sources Effectively <i>Kimberly B. Murga, MFS</i>
3:40 p.m.		4:00 p.m.	DNA Programs and Exploring Laboratory Efficiency <i>Jill L. Spriggs, MBA</i>
4:00 p.m.		4:10 p.m.	Sexual Assault Forensic Evidence Reporting (SAFER) Working Group <i>Heather E. Waltke, MS</i>
4:10 p.m.		4:20 p.m.	The Forensic Technology Center of Excellence (FTCoE) — Sexual Assault Initiatives <i>Jeri D. Roper-Miller, PhD</i>
4:20 p.m.		4:30 p.m.	Questions and Answers <i>Jeri D. Roper-Miller, PhD; Charles M. Heurich, MFS; Heather E. Waltke, MS; Patricia A. Foley-Melton, PhD</i>

**Targeted Audience:** Criminalistics, General, Jurisprudence, Pathology/Biology, Toxicology

**Knowledge Level Required:** Basic (little to no knowledge of subject presented)

**Expected Handout Length:** 100 Pages

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## American Society of Forensic Odontology

### 47<sup>th</sup> Annual Scientific Session

Registration can be accomplished on the ASFO website at [www.asfo.org](http://www.asfo.org).

## The State and the Future of State-Operated Disaster Mortuary Operational Response Team (DMORT) Forensic Odontology Casework — All for the Love

Tuesday, February 14, 2017

7:00 a.m. – 5:30 p.m.

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**Program:**

- 7:00 a.m. - 8:00 a.m. Registration and Breakfast
- 8:00 a.m. - 8:10 a.m. Welcome  
*David R. Senn, DDS*  
President, American Society of Forensic Odontology
- 8:10 a.m. - 8:30 a.m. Program Introduction  
*Eric S. Wilson, DDS*  
President-Elect, American Society of Forensic Odontology
- 8:30 a.m. - 10:00 a.m. The Future of State-Operated DMORT Teams  
*Kevin Tweedy; Joan Harding*
- 10:00 a.m. - 10:15 a.m. Break
- 10:15 a.m. - 10:45 a.m. The Future of State-Operated DMORT Teams (continued)  
*Kevin Tweedy; Joan Harding*
- 10:45 a.m. - 11:10 a.m. Michigan State Team Design/Organization (MiMORT)  
*Gary M. Berman, DDS*
- 11:10 a.m. - 11:35 a.m. Ohio State Team Design/Organization  
*Charles E. Berner, DDS*
- 11:35 a.m. - 12:00 p.m. Nebraska State Team Design/Organization  
*Kenneth P. Hermsen, DDS*
- 12:00 p.m. - 1:45 p.m. Luncheon and Annual Business Meeting
- 1:45 p.m. - 2:15 p.m. Forensic Odontology Casework  
*Peter W. Loomis, DDS*



New Orleans  
2017

## A.S.F.O.

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### The State and the Future of State-Operated Disaster Mortuary Operational Response Team (DMORT) Forensic Odontology Casework — All for the Love

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**Program cont.:**

- 2:15 p.m. - 2:45 p.m. Forensic Odontology Casework  
*Amber R. Riley, MS; Anthony R. Cardoza, DDS*
- 2:45 p.m. - 3:15 p.m. Forensic Odontology Casework
- 3:15 p.m. - 3:30 p.m. Break
- 3:30 p.m. - 4:00 p.m. Forensic Odontology Casework  
*John E. Filippi, DDS*
- 4:00 p.m. - 4:30 p.m. Forensic Odontology Casework  
*Richard M. Scanlon, DMD*
- 4:30 p.m. - 5:10 p.m. Forensic Odontology Casework — For the Love of Money  
*Bruce A. Schrader, DDS*
- 5:10 p.m. - 5:30 p.m. American Board of Forensic Odontology (ABFO) — Board Certification Application and Examination Requirements  
*Bruce A. Schrader, DDS*

ASFO is designated as an Approved PACE Program Provider. FAGD/MAGD Credit Approval does not imply acceptance by a state or provincial board of dentistry or AGD endorsement. ASFO offers 7.0 hours FAGD/MAGD Credit Subject Code #145.

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## National Association of Medical Examiners

### 2017 Interim Scientific Program

#### Hyatt Regency New Orleans

A separate registration fee, payable to the National Association of Medical Examiners (NAME), is required to attend this scientific program. To join or to attend, contact Denise McNally, NAME Executive Director, at (660) 734-1891 or at [name@thename.org](mailto:name@thename.org).

### Deaths in Custody: A Comprehensive Conversation

Tuesday, February 14, 2017

12:55 p.m. – 5:15 p.m.

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This program will include presentations with unique perspectives on deaths in custody as well as a multidisciplinary panel discussing a broad range of topics relating to deaths in custody.

**Program:**

12:55 p.m. - 1:00 p.m.	Welcome <i>Brian L. Peterson, MD</i>
1:00 p.m. - 1:10 p.m.	Opening Remarks <i>Roger A. Mitchell, Jr., MD</i>
1:10 p.m. - 1:30 p.m.	Introduction and Definition (Introduction of Case Presenters) <i>Michelle A. Jorden, MD</i>
1:30 p.m. - 1:50 p.m.	Police Shootings — Investigation, Autopsy Protocol, Death Certification and Surveillance, and Media and Public Relations <i>Sean C. Kelly, MD</i>
1:50 p.m. - 2:10 p.m.	Excited Delirium — Investigation, Autopsy Protocol, Death Certification and Surveillance, and Media and Public Relations <i>Judy Melinek, MD</i>
2:10 p.m. - 2:30 p.m.	Barricade/Suicide — Investigation, Autopsy Protocol, Death Certification and Surveillance, and Media and Public Relations <i>Dwayne A. Wolf, MD, PhD</i>
2:30 p.m. - 2:50 p.m.	Incarcerated — Investigation, Autopsy Protocol, Death Certification and Surveillance, and Media and Public Relations <i>Francisco J. Diaz, MD; Tanisha V. Henson, MFS</i>
2:50 p.m. - 3:00 p.m.	Questions & Answers
3:00 p.m. - 3:30 p.m.	Break





# N.A.M.E.

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## Deaths in Custody: A Comprehensive Conversation

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### Program cont.:

- 3:30 p.m. - 5:00 p.m. Multidisciplinary Panel Discussion  
Moderator: *Roger A. Mitchell, Jr., MD*  
*Margaret Noonan; Margaret Warner, PhD; Stephany E. Fiore, MD; Alfredo E. Walker, MBBS;*  
*Thomas P. Gilson, MD*
- 5:00 p.m. - 5:15 p.m. Questions and Answers

### CME STATEMENTS FOR JOINTLY SPONSORED ACTIVITIES

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of MedChi, The Maryland State Medical Society, and the National Association of Medical Examiners. MedChi is accredited by the ACCME to provide continuing medical education for physicians.

MedChi designates this live activity for a maximum of 3.5 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### Continuing Education Administration Fee

There is an administrative charge (\$75 pre-registration, \$100 on-site registration) for persons wishing to receive this credit. It will be necessary for you to complete a program evaluation as well as pay the administrative fee to receive CME credit for this meeting.

#### Self-Assessment Module

The American Board of Pathology has deemed the National Association of Medical Examiners to be an approved provider of Self-Assessment Modules (SAMs) for the Life-Long Learning and Self-Assessment Requirement (Part II) for Maintenance of Certification in Forensic Pathology. This activity has been planned and implemented in accordance with those guidelines and qualifies for a maximum of 3.5 hours of SAMs. There is an administrative charge of \$35 for Members and \$105 for Non-Members.

#### Registration Fee

The pre-registration fee for members is \$100 and \$150 for on-site registration. The pre-registration fee for non-members is \$150 and \$200 for on-site registration. Registration for this event is separate from the AAFS registration process. Contact Denise McNally at (660) 734-1891 or email [name@thename.org](mailto:name@thename.org) to receive a registration form.




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## National Institute of Justice

### Forensic Science Research and Development Symposium

#### American Academy of Forensic Sciences 69<sup>th</sup> Annual Scientific Meeting

The NIJ Forensic Science Research and Development Symposium is a *free and open* meeting where attendees can learn about NIJ-funded research across a variety of forensic science areas. Feel free to stop by and listen to specific presentations or stay all day and learn about the diverse NIJ forensic science R&D portfolio.

Registration information will be available at [www.forensicCOE.org](http://www.forensicCOE.org).

**Tuesday, February 14, 2017**

**8:30 a.m. – 5:10 p.m.**

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**Program:**

8:30 a.m. - 8:40 a.m. Welcome and Opening Remarks  
*Gerald M. LaPorte, MSFS*

**Morning Session I — Impression, Pattern, and Trace Evidence**  
*Moderated by Gregory Dutton, PhD*

8:40 a.m. - 9:05 a.m. The Fluid Dynamics of Droplet Impact on Inclined Surfaces With Application to Forensic Blood Spatter Analysis  
*Marc Smith*

9:05 a.m. - 9:30 a.m. Illuminating Lifestyles by Metabolomics of Personal Objects  
*Amina Bouslimani, PhD*

9:30 a.m. - 9:55 a.m. Audio Forensics of Gunshot Sounds  
*Rob Maher*

9:55 a.m. - 10:20 a.m. Characterization of Organic Firearms Discharge Residue: Progress and Potential  
*Suzanne Bell, PhD*

10:20 a.m. - 10:35 a.m. Break

**Morning Session II — Forensic Biology/DNA**  
*Moderated by Minh Nguyen*

10:35 a.m. - 11:00 a.m. Forensic DNA Phenotyping of Quantitative Pigment in Human Physical Appearance Prediction  
*Susan Walsh, PhD*

11:00 a.m. - 11:25 a.m. Proteomic Analysis of Menstrual Blood for Forensic Identification  
*Erin R. Butler, MS*



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2017

**N.I.J.**

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## Forensic Science Research and Development Symposium

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### Program cont.:

- 11:25 a.m. - 11:50 a.m. An Optimized DNA Analysis Workflow for the Sampling, Extraction, and Concentration of DNA Obtained From Archived Latent Fingerprints  
*Tracey Dawson Cruz, PhD*
- 11:50 a.m. - 12:15 p.m. The Enhancement of the Native American Combined DNA Index System Short Tandem Repeat Database for Use in Forensic Casework  
*Sreetharan Kanthaswamy, PhD*
- 12:15 p.m. - 1:35 p.m. Lunch

### **Afternoon Session I — Anthropology and Microbial Forensics**

*Moderated by Danielle L. McLeod-Henning, MFS*

- 1:35 p.m. - 2:00 p.m. Measuring Desiccation: A System Using Bioelectrical Impedance Analysis  
*Christiane Baigent, MSc*
- 2:00 p.m. - 2:25 p.m. Statistical Methods for Combining Multivariate and Categorical Data in Postmortem Interval Estimation  
*Jeffrey D. Wells, PhD*
- 2:25 p.m. - 2:50 p.m. The Isotopic Taphonomy of Human Hair  
*Gwyneth W. Gordon, PhD*
- 2:50 p.m. - 3:15 p.m. Adult Skeletal Age Estimation: Tackling Long-Standing Problems With a New Approach  
*Sara M. Getz, MS*
- 3:15 p.m. - 3:30 p.m. Break

### **Afternoon Session II — Controlled Substances and Toxicology**

*Moderated by Frances Scott, PhD*

- 3:30 p.m. - 3:55 p.m. Novel Blood Protein Modification Assay for Retrospective Detection of Drug Exposure  
*Anthony P. DeCaprio, PhD*
- 3:55 p.m. - 4:20 p.m. Stability of Synthetic Cathinones in Biological Evidence  
*Lindsay Glicksberg, BS*
- 4:20 p.m. - 4:45 p.m. Toward Development of a Mass Spectrometric Database for Rapid Identification of Plant Drugs of Abuse Using Ambient Ionization Mass Spectrometry  
*Rabi A. Musah, PhD*
- 4:45 p.m. - 5:10 p.m. One Pot Methamphetamine Effluent Characterization  
*Jarrad R. Wagner, PhD; David Pretorius*

69TH ANNUAL SCIENTIFIC MEETING  
OUR FUTURE REFLECTS OUR PAST:  
THE EVOLUTION OF  
FORENSIC SCIENCE



1948

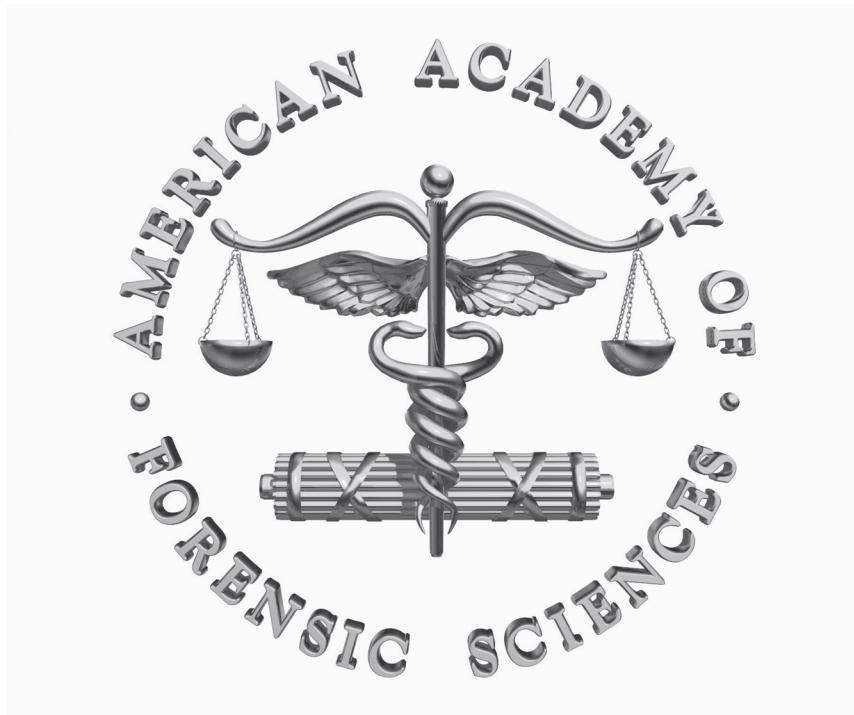
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FEBRUARY 13-18, 2017

ADVANCE PROGRAM



Due to potential changes in the program, the AAFS encourages you to access the most up-to-date schedule on the AAFS website at [www.aafs.org](http://www.aafs.org).





## Wednesday

### Poster Session

- |                        |            |  |
|------------------------|------------|--|
| 11:30 a.m. - 1:00 p.m. | <b>A1</b>  | <b>Quantifying and Visualizing Skeletal Thoracic Trauma</b><br><i>Cortney N. Hulse, BS*</i> ; <i>Kyra E. Stull, PhD</i> ; <i>Ashley Weaver, PhD</i>  |
| 11:30 a.m. - 1:00 p.m. | <b>A2</b>  | <b>Improving Non-Metric Sex Classification for Hispanic Individuals</b><br><i>Alexandra R. Klales, PhD*</i> ; <i>Stephanie J. Cole, BA</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A3</b>  | <b>Sex-Specific Patterns of Ossification in Macerated Thyroid Cartilages</b><br><i>Katelyn L. Bolhofner, MA*</i> ; <i>Laura C. Fulginiti, PhD*</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A4</b>  | <b>A Craniometric Recapitulation of Genetic Estimates of Ancestry for Individuals of Hispanic Identity: Temporal, Geographic, and Identification Trends</b><br><i>Bridget F.B. Algee-Hewitt, PhD*</i> ; <i>Cris E. Hughes, PhD</i> ; <i>Bruce E. Anderson, PhD</i> |
| 11:30 a.m. - 1:00 p.m. | <b>A5</b>  | <b>Population Identifiability From Forensic Genetic Markers: Ancestry Variation in Latin America</b><br><i>Cris E. Hughes, PhD*</i> ; <i>Bridget F.B. Algee-Hewitt, PhD*</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A6</b>  | <b>Vulture Scavenging of Pig Remains at Varying Grave Depths</b><br><i>Aryn Klein, MA*</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A7</b>  | <b>3D Image Technology in Forensic Anthropology: Assessing the Validity of Biological Profiles Derived From Computed Tomography (CT) 3D Images of the Skeleton</b><br><i>M. Julia Garcia de Leon Valenzuela, MSc*</i>  |
| 11:30 a.m. - 1:00 p.m. | <b>A8</b>  | <b>The Accuracy and Reliability of the Klales et al. Non-Metric Pelvic Sexing Method</b><br><i>Kate M. Lesciotto, JD, MS*</i> ; <i>Lily J. Doershuk, BS</i>  |
| 11:30 a.m. - 1:00 p.m. | <b>A9</b>  | <b>Organic Staining on Bone</b><br><i>Corey Pollock*</i> ; <i>James Pokines, PhD</i> ; <i>Jonathan D. Bethard, PhD</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A10</b> | <b>Postmortem Environment and DNA Quality: Investigating the Effect of Seasonal Taphonomy on Skeletal DNA Quality</b><br><i>Lauren J. Swift, MSc*</i> ; <i>Ambika Flavel, MSc</i> ; <i>Daniel Franklin, PhD</i>  |
| 11:30 a.m. - 1:00 p.m. | <b>A11</b> | <b>A Transition Analysis of Pediatric Fracture Repair Stages</b><br><i>Nicholas V. Passalacqua, PhD*</i> ; <i>Michael W. Kenyhercz, PhD</i> ; <i>Diana L. Messer, MS</i>   |
| 11:30 a.m. - 1:00 p.m. | <b>A12</b> | <b>Musculoskeletal Stress Markers as Evidence of Manual Labor: <i>The Allumiere Cemetery Case</i></b><br><i>Marica Baldoni, MA*</i> ; <i>Matteo Borrini, PhD*</i> ; <i>Cristina Martinez Labarga, PhD</i>  |



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# ANTHROPOLOGY

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- 11:30 a.m. - 1:00 p.m. **A13** **A Statistical Method for Reassociating Human Tali and Calcanei From a Commingled Context**  
*Ioanna Anastopoulou, BSc; Fotios A. Karakostis, MSc; Matteo Borrini, PhD\*;  
Konstantinos Moraitis, PhD*
- 11:30 a.m. - 1:00 p.m. **A14** **Long-Term Observer Error, Observer Experience, and the Value of Trait Standardization in Macromorphoscopic Trait Analysis**  
*Kelly R. Kamnikar, MA\*; Joseph T. Hefner, PhD*
- 11:30 a.m. - 1:00 p.m. **A15** **WITHDRAWN**
- 11:30 a.m. - 1:00 p.m. **A16** **Collagen Structural Changes and Decomposition in Burnt Bone and Their Significance for Forensic Anthropology — New Insights Via Amino Acid Racemization**  
*Sarah Ellingham, PhD\**
- 11:30 a.m. - 1:00 p.m. **A17** **Trace Element Analysis of Dental Enamel for the Geographic Attribution of Unidentified Remains**  
*Robert H. Stein, BS\*; Tal Simmons, PhD; Christopher J. Ehrhardt, PhD;  
Jennifer L. Hankle, DMD*
- 11:30 a.m. - 1:00 p.m. **A18** **Traditional Morphometrics of the Juvenile Skull: An Analysis of Ontogenetic Growth Patterns**  
*Jacqueline Noble, MFS\*; Ambika Flavel, MSc; Daniel Franklin, PhD*
- 11:30 a.m. - 1:00 p.m. **A19** **A Preliminary Investigation Into the Effects of Previous Freezing on Human Decomposition**  
*Lindsey G. Roberts, MA\*; Gretchen R. Dabbs, PhD; Jessica R. Spencer, MA;  
Kaleigh C. Best, MS*
- 11:30 a.m. - 1:00 p.m. **A20** **The Influence of Stature on Sex Estimation**  
*Haley E. Horbaly, BS\**
- 11:30 a.m. - 1:00 p.m. **A21** **The Potential Use of Five Cranial Traits for Sex Assessment in Forensic Cases**  
*Joe Adserias, DDS, PhD\*; Heli Maijanen, PhD; Sara C. Zapico, PhD;  
Dawnie W. Steadman, PhD*
- 11:30 a.m. - 1:00 p.m. **A22** **Forensic Proteomics: A New Perspective for Age of Death and Postmortem Interval (PMI) Estimation in Porcine Bone Within the Burial Context**  
*Noemi Procopio, MSc\*; Anna Williams, PhD; Michael Buckley, PhD*
- 11:30 a.m. - 1:00 p.m. **A23** **Making Up for Missing Pieces: Scanning Electron Microscopy With Energy-Dispersive X-Ray Spectroscopy (SEM/EDX) Gunshot Residue (GSR) Analysis of the Human Cranial Bone**  
*James J. West, MS; Natalie R. Langley, PhD\*; Stan Kunigelis, PhD;  
Cassie Boggs, MD*
- 11:30 a.m. - 1:00 p.m. **A24** **Testing the Performance of a New-Age-Estimation Method on an Asian Sample**  
*Beatrix Dudzik, PhD\*; Natalie R. Langley, PhD; Jieun Kim, PhD; Wu Jian, MD;  
Benison Mangel, BS*

# ANTHROPOLOGY



## Thursday

### Taphonomy: DNA, Postmortem Interval (PMI), and More

Moderator: *Sara C. Zapico, PhD*  
*International Committee of the Red Cross*  
*Geneva, SWITZERLAND*

Co-Moderator: *Janet E. Finlayson, MA*  
*University of Florida*  
*Gainesville, FL*

- 8:30 a.m. - 8:45 a.m.    **A25**    **Evaluating Differential Nuclear DNA Yield Rates Among Human Bone Tissue Types: A Synchrotron Micro-Computed Tomography (CT) Approach**  
*Janna M. Andronowski, PhD\**; *Amy Z. Mundorff, PhD*; *David M.L. Cooper, PhD*
- 8:45 a.m. - 9:00 a.m.    **A26**    **The Effect of Embalming on Discoloration of Burnt Bone**  
*Michal Peer\**
- 9:00 a.m. - 9:15 a.m.    **A27**    **Modeling Thermal Alterations on Burned Human Remains**  
*Amanda Williams, MA\**; *Elayne J. Pope, PhD*; *Marin A. Pilloud, PhD*;  
*Mary E. Cablk, PhD*; *Alison Galloway, PhD*
- 9:15 a.m. - 9:30 a.m.    **A28**    **Scavengers at Real and Taxidermied Carrion**  
*Lauren R. Pharr, PhD\**
- 9:30 a.m. - 9:45 a.m.    **A29**    **WITHDRAWN**
- 9:45 a.m. - 10:00 a.m.    **A30**    **Robbed Burial Sites: A Comparative Investigative Approach Using Geographic Information Software (GIS) to Locate Secondary Burial Sites**  
*Maria Mikellide, MA*; *Derek Congram, PhD\**
- 10:00 a.m. - 10:15 a.m.    **A31**    **A Comparison of Skin Color Change in Terrestrial and Aquatic Decomposition and Its Potential Value as an Indicator of Postmortem Interval (PMI)**  
*Sophie Iddamalgoda, MSc*; *Charlene D. Swanborough, MSc*; *Kestutis Soblinskas, BSc*;  
*Mark Tibbett, PhD*; *Anna Williams, PhD\**
- 10:15 a.m. - 10:30 a.m.    **A32**    **Estimating the Postmortem Interval (PMI): A Metabolomics/Lipidomics Approach**  
*Natalie R. Langley, PhD\**; *Paul Wood, PhD*; *Patrick Herling, MS*;  
*Dawnie W. Steadman, PhD*
- 10:30 a.m. - 10:45 a.m.    **Break**





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# ANTHROPOLOGY

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## Sex Determination: From Head to Shin

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*Moderator: Joan E. Baker, PhD  
Defense POW/MIA Accounting Agency  
Washington, DC*

*Co-Moderator: Allysha P. Winburn, MA  
University of New Hampshire  
Department of Anthropology  
Durham, NH*

- 10:45 a.m. - 11:00 a.m.    **A33**    **The Growth and Development of Secondary Sex Characteristics in the Human Skull**  
*Michala K. Stock\**
- 11:00 a.m. - 11:15 a.m.    **A34**    **Sex Estimation: A Novel Protein-Based Sex Assignment Technique Using Human Tooth Enamel and Mass Spectrometry**  
*Katelyn Mason, PhD\*; Caleb Kiesow; Laura A. Regan, PhD;  
Haagen D. Klaus, PhD; Bethany L. Turner-Livermore, PhD;  
Deon Anex, PhD; Bradley Hart, PhD; Glendon Parker, PhD*
- 11:15 a.m. - 11:30 a.m.    **A35**    **Sex Estimation Using Relative Pubis Length**  
*Caitlynn Cole\**
- 11:30 a.m. - 11:45 a.m.    **A36**    **The Accuracy of Nutrient Foramen Versus Midshaft Measurements of the Tibia for Sex Determination**  
*Ashley C. Dafoe\*; David R. Hunt, PhD*
- 11:45 a.m. - 1:15 p.m.        **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **A37**    **Skeletal DNA Preservation and Bone-Associated Microbes: The Implications for DNA Sampling Strategies in Forensic Identification**  
*Alexandra L. Emmons, MA\*; Sarah W. Keenan, PhD; Amy Z. Mundorff, PhD;  
Jon Davoren, MS; Jennifer M. DeBruyn, PhD*
- 11:30 a.m. - 1:00 p.m.    **A38**    **A Morphometric Analysis of the Neurocranium in an Adult South African Sample**  
*Jacqui Friedling, PhD\*; Petra Maass, MSc*
- 11:30 a.m. - 1:00 p.m.    **A39**    **Additional Information for Identification Purposes Via the Study of Cam-Type Deformity of the Hip**  
*Laura Donato\*; Marco Straccamore, MD; Alessandro Di Luca, MD;  
Costantino Ciallella*
- 11:30 a.m. - 1:00 p.m.    **A40**    **A Cranial-Postcranial Approach to Metric Ancestry Estimation Among Modern South Africans**  
*Gabriele C. Kruger, MSc; Leandi Liebenberg, MS; Janice Lucinda Geel, BSc;  
Ericka N. L'Abbe, PhD\**

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- 11:30 a.m. - 1:00 p.m. **A41** **The Decomposition of Child-Sized Remains in Different Depositions**  
*Ann H. Ross, PhD\**; *Amanda R. Hale, MA\**
- 11:30 a.m. - 1:00 p.m. **A42** **Changing Impact Angles: The Mechanics Involved in Blunt Force Cranial Trauma and Their Importance in Investigating Curb-Stomping Cases**  
*Carole A.L. Davenport, BSc\**; *James C. Ohman, PhD*; *Matteo Borrini, PhD*
- 11:30 a.m. - 1:00 p.m. **A43** **Comparing the Decomposition of Partially Suspended (Semi-Recumbent) Pigs With Fully Suspended Hanging Pigs and Fully Recumbent Pigs in Direct Contact With the Ground**  
*Jeanne Lynch-Aird, PhD\**; *Colin Moffatt, PhD*; *Tal Simmons, PhD*
- 11:30 a.m. - 1:00 p.m. **A44** **The Effects of Cranial and Pelvic Asymmetry on Accurate Sex Classification**  
*Stephanie J. Cole, BA\**; *Luis L. Cabo, MS*; *Alexandra R. Klales, PhD*
- 11:30 a.m. - 1:00 p.m. **A45** **Experimentally Derived Protocols for Generating 3D Cranial Surface Scans for Forensic Anthropological Applications**  
*Taylor J. Rider\**; *Megan J. Rue, BA*; *Heather M. Garvin, PhD*
- 11:30 a.m. - 1:00 p.m. **A46** **Testing Computational Age Estimation Methods Using Laser Scans of the Adult Pubic Symphysis on Modern Hispanic Populations**  
*Cristina Figueroa-Soto, MA\**; *Detelina Stoyanova, PhD\**; *Jieun Kim, PhD\**; *Dennis E. Slice, PhD\**; *Bridget F.B. Algee-Hewitt, PhD\**
- 11:30 a.m. - 1:00 p.m. **A47** **Recording Total Skeletal Completeness: Introducing a New Approach**  
*Samantha K. Rowbotham, MA\**; *Soren Blau, PhD*; *Jacqueline Hislop-Jambrich, PhD*
- 11:30 a.m. - 1:00 p.m. **A48** **A Study of Modern Commingled Human Remains From a Korean War Recovery Site — Gum Riverside, Junla Province**  
*Nahyok Im, PhD\**; *Youngsoon Shin, MS\**; *Hae Joung Cho\**; *Minho Cha, MS\**; *Yu Ryang Jang, PhD\**
- 11:30 a.m. - 1:00 p.m. **A49** **The New Method of Implementing 3D Scanners and X-Rays on Commingled Remains Recovered From a Korean War Recovery Site**  
*Yu Ryang Jang, PhD\**; *Jung Min Lim, PhD*; *Jeung Sang Park, MA*; *Na-Hyok Im, PhD*
- 11:30 a.m. - 1:00 p.m. **A50** **A Grading System to Assess the Sex and Parity Status for the Preauricular Sulcus: A Step Forward**  
*Sarah E. Canty, BSc\**; *Silvia Gonzalez, PhD*; *Constantine Eliopoulos, PhD*; *Matteo Borrini, PhD\**
- 11:30 a.m. - 1:00 p.m. **A51** **Biological Indicators of Aging and Their Application in Individualized Biological Anthropology**  
*Ivana Kruzic, PhD\**; *Zeljana Basic, PhD*; *Ivan Jerkovic, MSc*; *Ozren Polašek, PhD*; *Simun Andjelinovic, PhD*
- 11:30 a.m. - 1:00 p.m. **A52** **The Use of the Palate for Ancestry and Sex Estimation**  
*Natalie L. Andras\**; *Alexandra R. Klales, PhD*



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- 11:30 a.m. - 1:00 p.m. **A53** **Subaerial Bone Weathering in North Africa: An Experimental Study in Algiers, Algeria**  
*Ammar Lahouel, MD\**; *M. Y. Guellati, MD*; *Habdelhamid Grait, MD*;  
*Moussa Toumi, BA*; *A. Boudaba, MD*; *Brahim Djedouani, BA*; *A. Atrouz, MD*;  
*A. Djebbouri, BA*; *Miles Benalia, BA*; *A. Mezhoudi, BA*; *R. Boussahla, BA*;  
*A. Slimani, BA*; *Jonathan D. Bethard, PhD\**; *Elizabeth A. DiGangi, PhD\**
- 11:30 a.m. - 1:00 p.m. **A54** **Metric Pair-Matching of Calcanei in Commingled Remains Cases: A Case Study From South Africa**  
*Kayla L. Orr, BSc\**; *Tanya R. Peckmann, PhD*; *Susan B. Meek, PhD*;  
*Claudia Garrido Varas, MSc*
- 11:30 a.m. - 1:00 p.m. **A55** **A Validation Study of the Mandibular Canine Index Method of Sexual Assessment Using Two American Populations**  
*Samantha W. Coberly, MS\**
- 11:30 a.m. - 1:00 p.m. **A56** **Identity by the Numbers: Cancerous Lesions and Likelihood Ratios**  
*William D. Cawley, BA\**; *Dawnie W. Steadman, PhD*
- 11:30 a.m. - 1:00 p.m. **A57** **The Application and Accuracy of 3D Surface-Scanned Postcranial Bones**  
*Victoria N. Harrington, MSc\**; *Heather McKillop, PhD*
- 11:30 a.m. - 1:00 p.m. **A58** **An Exploration of the Variation in the Sternal Rib Ends of Infants**  
*Julia R. Prince-Buitenhuys, MA\**; *Deborah C. Pinto, PhD*; *Christian Crowder, PhD*;  
*Jason M. Wiersema, PhD*; *Sharon M. Derrick, PhD*; *Miriam E. Soto Martinez, PhD*
- 11:30 a.m. - 1:00 p.m. **A59** **Reciprocating Saws as Tools of Dismemberment**  
*Jacqueline M. Berger\**; *James Pokines, PhD*; *Tara L. Moore, PhD*
- 11:30 a.m. - 1:00 p.m. **A60** **Assessing the Accuracy of Historical Associations in a Commingled Assemblage**  
*Carrie A. Brown, PhD*; *Carrie B. LeGarde, MA*; *Franklin E. Damann, PhD\**;  
*John E. Byrd, PhD*

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## Commingled Remains: Minimum Number of Individuals (MNI) and Reassociation

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*Moderator: Joan A. Bytheway, PhD*  
*Sam Houston State University*  
*College of Criminal Justice*  
*Huntsville, TX*

*Co-Moderator: Ashley C. Smith, MSc*  
*University of Toronto*  
*Toronto, CANADA*

- 1:15 p.m. - 1:30 p.m. **A61** **An Age-Based Approach to Establishing Minimum Number of Individuals (MNI) in Commingled Juvenile Skeletal Material**  
*Maria L. Cox, BA*; *Valerie Sgheiza, BS\**
- 1:30 p.m. - 1:45 p.m. **A62** **Accuracy in Osteometric Reassociation: Comparing Geometric Morphometric Landmark Data and Linear Measurements**  
*Kyle A. McCormick, PhD\**

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1:45 p.m. - 2:00 p.m. **A63** **Performance Assessment for Osteometric Pair-Matching**  
*John E. Byrd, PhD\**; *Carrie B. LeGarde, MA*

2:00 p.m. - 2:15 p.m. **Break**

## The Great Teacher Inspires: In Honor of Walter H. Birkby, PhD

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*Moderator: Laura C. Fulginiti, PhD*  
*Forensic Science Center*  
*Phoenix, AZ*

*Co-Moderator: Alison Galloway, PhD*  
*University of California*  
*Santa Cruz, CA*

2:15 p.m. - 2:30 p.m. **A64** **Mentoring by Example: Lessons in Cremation Analysis From the Forensic Case Files of Walter H. Birkby, PhD**  
*Thomas Michael Fink, MA\**

2:30 p.m. - 2:45 p.m. **A65** **Walter H. Birkby's Influence on the Science of Mummy Studies**  
*Karl J. Reinhard, PhD\**

2:45 p.m. - 3:00 p.m. **A66** **Birkby, Bones, and Bodies: The Making of a Mentor**  
*Madeleine J. Hinkes, PhD\**

3:00 p.m. - 3:15 p.m. **A67** **The Birkby Paradox — Forensic Anthropology Participation and Gender**  
*Alison Galloway, PhD\**

3:15 p.m. - 3:30 p.m. **Break**

3:30 p.m. - 3:45 p.m. **A68** **The Recordkeeping of Walter H. Birkby, PhD**  
*Bruce E. Anderson, PhD\**

3:45 p.m. - 4:00 p.m. **A69** **The Skeletal Trauma Casework of Walter H. Birkby, PhD: Setting a Standard for Future Generations**  
*Todd W. Fenton, PhD\**; *Caitlin C.M. Vogelsberg, MS*; *Jennifer M. Vollner, PhD*

4:00 p.m. - 4:15 p.m. **A70** **Human Bone Taphonomy and the Use of Consolidants: An Example From Cyprus**  
*Sherry C. Fox, PhD\**; *Jessica S. Johnson, MA*

4:15 p.m. - 4:30 p.m. **A71** **Standing on the Shoulders of Giants: The Evolving Legacy of Walter H. Birkby, PhD**  
*Laura C. Fulginiti, PhD\**



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## *Friday — Session I*

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### **Ancestry: Dentition, Cranial Metric, and Non-Metric Methods**

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*Moderator: Donna C. Boyd, PhD  
Radford University  
Forensic Science Institute  
Radford, VA*

*Co-Moderator: Julie M. Fleischman, MS  
East Lansing, MI*

- 8:30 a.m. - 8:45 a.m.    **A72**    **A New Application for Estimating Ancestry Based on Dental Morphology**  
*Marin A. Pilloud, PhD\**; *G. Richard Scott, PhD*; *David Senhora Navega, MSc*;  
*João Pedro Valente de Oliveira Coelho, MSc*; *Eugenia Cunha, PhD*;  
*Joel D. Irish, PhD*
- 8:45 a.m. - 9:00 a.m.    **A73**    **Molar Crenulation Trait Definition and Population Variation**  
*Marin A. Pilloud, PhD*; *Christopher A. Maier, MA\**; *G. Richard Scott, PhD*
- 9:00 a.m. - 9:15 a.m.    **A74**    **Observer Error and Its Impact on Ancestry Estimation Using  
Dental Morphology**  
*Donovan M. Adams, MS\**; *Marin A. Pilloud, PhD*; *Heather J.H. Edgar, PhD*;  
*Joseph T. Hefner, PhD*
- 9:15 a.m. - 9:30 a.m.    **A75**    **The Utility of Stable Isotope Ratios of Tap Water and Human Teeth as  
Predictors of Region of Origin in Central and Southern Mexico**  
*Chelsey A. Juarez, PhD\**
- 9:30 a.m. - 9:45 a.m.    **A76**    **Cranial Non-Metric Variability and Ancestry Assessment in Modern Japanese  
and Thai Individuals**  
*Sean D. Tallman, PhD\**
- 9:45 a.m. - 10:00 a.m.    **A77**    **Population Classification Using Discriminant Function Analysis of Combined  
Mandibular Osteometrics and Non-Metric Traits**  
*Paul D. Emanovsky, PhD\**; *Nicolette Parr, PhD*
- 10:00 a.m. - 10:15 a.m.    **Break**

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## Age Assessment: From Head to Toe

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*Moderator: Ashley E. Kendell, PhD  
University of Montana  
Department of Anthropology  
Missoula, MT*

*Co-Moderator: Liotta N. Dowdy, MA  
University of South Florida  
Department of Anthropology  
Tampa, FL*

- 10:15 a.m. - 10:30 a.m.    **A78**    **Forensic Age Estimation by Medial Clavicle Epiphysis Ossification Using Computed Tomography (CT)**  
*Venkatesh Maled, MD\**
- 10:30 a.m. - 10:45 a.m.    **A79**    **The Role of Third Molar Impaction on Dental Development and Age Estimation in Males**  
*Kelly Heim, MA\*; Marin A. Pilloud, PhD*
- 10:45 a.m. - 11:00 a.m.    **A80**    **The Challenges of Comparative Radiography in the Developing Skeleton**  
*Carolyn V. Isaac, PhD\*; Jered B. Cornelison, PhD; Joseph A. Prahlow, MD*
- 11:00 a.m. - 11:15 a.m.    **A81**    **Examining the Effect of Region Of Interest (ROI) Size on the Ability to Accurately Estimate Age at Death From Osteon Population Density (OPD)**  
*Megan E. Ingvoldstad, PhD; Timothy P. Gocha, PhD\*; Christian Crowder, PhD; Victoria M. Dominguez, MA*
- 11:15 a.m. - 11:30 a.m.    **A82**    **Age Estimation Using the Development of the Foot and Ankle**  
*Kelsey A. Carpenter, MS\*; Stephen D. Ousley, PhD*
- 11:30 a.m. - 11:45 a.m.    **A83**    **The Influence of a Pathological State on Fetal Biometric Age Estimation**  
*Sarah Humez, MD\*; Mélissa Niel, MS; Valéry C. Hedouin, MD, PhD; Pascal Adalian; Marie-Dominique Piercecchi-Marti, PhD*
- 11:45 a.m. - 1:15 p.m.    **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **A84**    **Exploring the Gap Between Anthropological and Clinical Literature on Pediatric Fracture Healing**  
*Diana L. Messer, MS\*; Amanda M. Agnew, PhD*
- 11:30 a.m. - 1:00 p.m.    **A85**    **Skeletal Sun Bleaching and Weathering Patterns in Central Florida: An Approach for Estimating Time Since Death (TSD)**  
*Michelle M. Hawkins, BSc\*; John J. Schultz, PhD; Alexander T. Mitchell*
- 11:30 a.m. - 1:00 p.m.    **A86**    **Optimization of a Protocol for Visualizing Vascular and Cellular Pore Networks in Human Bone Using Multiphoton Confocal Microscopy**  
*Mary E. Cole, MA\*; Sam D. Stout, PhD*



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- 11:30 a.m. - 1:00 p.m. **A87** **Reconstructing Personhood: A Historical Perspective on Fragmentary Remains, DNA Technology, and Family Acceptance of Positive Identifications of United States War Dead**  
*Christine M. Pink, PhD\**; *Allysha P. Winburn, MA\**
- 11:30 a.m. - 1:00 p.m. **A88** **Changing the Mentorship Paradigm: Survey Data and Interpretations From Forensic Anthropology Practitioners**  
*Allysha P. Winburn, MA\**; *Audrey L. Scott, PhD*; *Cate E. Bird, PhD*;  
*Sean D. Tallman, PhD*
- 11:30 a.m. - 1:00 p.m. **A89** **Rethinking Adult Skeletal Age Estimation: An Expanded Approach to Transition Analysis Using Binary Traits**  
*Sara M. Getz, MS\**; *George R. Milner, PhD*; *Jesper L. Boldsen, PhD*
- 11:30 a.m. - 1:00 p.m. **A90** **Examining the Effectiveness of Mastoid Process Measurements in Estimating Sex**  
*Sarah C. Kindschuh, PhD\**
- 11:30 a.m. - 1:00 p.m. **A91** **The Effect of Body Composition on Outdoor Human Decomposition**  
*Saskia Ammer, MSc\**
- 11:30 a.m. - 1:00 p.m. **A92** **The Accuracy of Estimating Ancestry in Undocumented Migrants Along the South Texas Border Using Dental Morphological Traits: A Comparison to Craniometrics**  
*Chaunese Clemmons, BA\**; *Nandar Yuki, BA*; *Kate Spradley, PhD*
- 11:30 a.m. - 1:00 p.m. **A93** **What Stature and Weight Do We Actually Estimate?**  
*Yangseung Jeong, PhD\**; *Heli Maijanen, PhD\**
- 11:30 a.m. - 1:00 p.m. **A94** **A Retrospective Analysis of FORDISC® Performance at the C.A. Pound Human Identification Laboratory (CAPHIL)**  
*Amanda N. Friend, MA\**; *Janet E. Finlayson, MA*; *Katie M. Rubin, MS*;  
*Michala K. Stock*
- 11:30 a.m. - 1:00 p.m. **A95** **The Undergraduate Forensic Internship Experience: A Path to Employment for Anthropology Students**  
*A. Joanne Curtin, PhD\**
- 11:30 a.m. - 1:00 p.m. **A96** **The Detection of Genetic Information in the Enamel Proteome**  
*Caleb Kiesow\**; *Katelyn Mason, PhD*; *Deon Anex, PhD*; *Bonnee Rubinfeld, MSc*;  
*Laura A. Regan, PhD*; *Bradley Hart, PhD*; *Glendon Parker, PhD\**
- 11:30 a.m. - 1:00 p.m. **A97** **Accumulated Decomposition Score (ADS): An Alternative Method to Total Body Score (TBS) for Quantifying Gross Morphological Changes Associated With Decomposition**  
*Devora S. Gleiber, BA\**; *Lauren A. Meckel, MA\**; *Courtney C. Siegert, BA\**;  
*Chloe P. McDaneld, MA\**; *Justin Alexander Pyle, BS*; *Daniel J. Wescott, PhD*
- 11:30 a.m. - 1:00 p.m. **A98** **To Group or Not to Group?**  
*Carrie B. LeGarde, MA\**

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- 11:30 a.m. - 1:00 p.m. **A99** **Disturbed Soil: Unexplored Variables and the Postmortem Interval (PMI) in Southwest Florida**  
*Matthew D. Rolland, BS\**; *Shawn R. Dahl, BS*; *Heather A. Walsh-Haney, PhD*
- 11:30 a.m. - 1:00 p.m. **A100** **Mapping Surface Scatter of Scavenged Human Remains Using Drone Aerial Photography**  
*Krystle Lewis, BS\**; *Daniel J. Wescott, PhD*; *Eugene J. Robinson*; *John Buell*; *Michael Josephs*
- 11:30 a.m. - 1:00 p.m. **A101** **Assigning Region of Origin in the Southeastern United States Using Stable Oxygen Isotopes of Modern Human Enamel**  
*Monica M. Warner, MA\**; *Amber M. Plemons, MA*; *Nicholas P. Herrmann, PhD*; *Laura A. Regan, PhD*
- 11:30 a.m. - 1:00 p.m. **A102** **The Differences in the Rate of Decomposition Between Frozen and Non-Frozen Human Remains**  
*Shelby Garza\**; *Daniel J. Wescott, PhD*
- 11:30 a.m. - 1:00 p.m. **A103** **The Use of Industrial Computed Tomography (CT) in Forensic Anthropology**  
*Angi M. Christensen, PhD\**; *Michael A. Smith, PhD*; *Deborah L. Cunningham, PhD*; *Daniel J. Wescott, PhD*; *Devora S. Gleiber, BA*
- 11:30 a.m. - 1:00 p.m. **A104** **Prostheses and Medical Devices: Their Value in Forensic Anthropology**  
*Eugenia Cunha, PhD\**; *Maria Teresa Ferreira, PhD*; *Catarina Coelho, MSc*; *David Senhora Navega, MSc*; *Francisco Curate, PhD*; *David Gonçalves, PhD*; *Carlos Durão*
- 11:30 a.m. - 1:00 p.m. **A105** **Bones and Teeth as Osteological Signatures of the Identity of Human Remains Excavated From a 160-Year-Old Abandoned Well: A Forensic Anthropological Case Report From India**  
*Jagmahender Singh Sehwat, PhD\**; *Raj Kamal, PhD*
- 11:30 a.m. - 1:00 p.m. **A106** **The First Case of a Mummified Face and Skull-Photo Superimposition in the United Arab Emirates**  
*Khudooma S. Al Na'imi, MSc\**
- 11:30 a.m. - 1:00 p.m. **A107** **Documenting Fracture Time Since Injury (TSI) Through a National Archival Database of Antemortem Fracture Healing**  
*Donna C. Boyd, PhD\**; *Cliff Boyd, PhD*





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## Identification of Unknown Remains

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*Moderator: Krista E. Latham, PhD  
University of Indianapolis  
Biology Department  
Indianapolis, IN*

*Co-Moderator: Rebecca L. George, MA  
Reno, NV*

- 1:15 p.m. - 1:30 p.m.    **A108**    **Rediscovering the Unknowns of South Jersey: The Long-Term Initiative to Develop a Standard Methodology for Unidentified Remains at the Southern Regional Medical Examiner Office (SRMEO)**  
*Evonne Turner-Byfield, MA\*; Bobbi-Jean Brooks, BSc\**
- 1:30 p.m. - 1:45 p.m.    **A109**    **The Identify Indiana Initiative: A Collaborative Approach to Reinvestigating Cold Cases of Human Remains in the State of Indiana**  
*Krista E. Latham, PhD\*; Stephen P. Nawrocki, PhD; Justin R. Maiers, BS;  
Eric J. Bartelink, PhD*
- 1:45 p.m. - 2:00 p.m.    **A110**    **Are They Full Siblings? The Distribution of the Sibship Index and Its Application in Forensic Identification**  
*Jennie J. Jin, PhD\*; Michael O'Rourke, BS; John E. Byrd, PhD*
- 2:00 p.m. - 2:15 p.m.    **A111**    **A New Complex Investigation Model for Searching, Mapping, and Identifying Disappeared Persons in Argentina**  
*Delida I. Caridi, PhD\*; Carlos Somigliana, MS; Enrique Enrique Alvarez, PhD;  
Mercedes Salado Puerto, PhD*
- 2:15 p.m. - 2:30 p.m.    **A112**    **Antemortem vs. Postmortem Measured Statures of Korean War Casualties**  
*Alexander F. Christensen, PhD\**
- 2:30 p.m. - 2:45 p.m.    **A113**    **Stature Determination From the Adult Human Clavicle: A Medicolegal Autopsy Study on the Indian Population of the Northwest Region of India**  
*Jasbir Singh, MD\**
- 2:45 p.m. - 3:00 p.m.    **A114**    **The Role of Stigma in the Medicolegal Investigation of Unidentified Persons**  
*Cate E. Bird, PhD\*; Jaime D. Sykes, BA; Jason D.P. Bird, PhD*
- 3:00 p.m. - 3:15 p.m.    **A115**    **The Applications and Practicality of Dental 3D Scanning in Forensic Anthropology**  
*Teresa V. Wilson, PhD\**
- 3:15 p.m. - 3:30 p.m.    **Break**

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## Morphology: Micro- and Macromorphoscopic Features

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*Moderator: Christine M. Pink, PhD  
Metropolitan State University of Denver  
Department of Sociology and Anthropology  
Denver, CO*

*Co-Moderator: Christiane Baigent, MSc  
Forensic Investigation Research Station  
Colorado Mesa University  
Grand Junction, CO*

- 3:30 p.m. - 3:45 p.m.    **A116**    **The Curious Case of Cranial Dysraphism: How a Cranial Variant Appears as Trauma or Trephination**  
*Christine L. Halling, MS\*; Ryan M. Seidemann, MA*
- 3:45 p.m. - 4:00 p.m.    **A117**    **The Relationship of Palatal Suture Complexity and Fusion**  
*Carrie A. Brown, PhD\**
- 4:00 p.m. - 4:15 p.m.    **A118**    **Elliptical Fourier Analysis of the Human Nasal Aperture**  
*Justin R. Maiers, BS\*; Stephen P. Nawrocki, PhD*
- 4:15 p.m. - 4:30 p.m.    **A119**    **Is Quantitative Ultrasound (QUS) a Useful Tool for Evaluating the Mechanical Properties of Infant Cortical Bone?**  
*Miriam E. Soto Martinez, PhD; Christian Crowder, PhD\*; Catherine G. Ambrose, PhD; Juantia M. Deaver*
- 4:30 p.m. - 4:45 p.m.    **A120**    **A Histomorphological Analysis on the Variability of the Entire Human Skeleton: Implications for Differentiating Human From Non-Human**  
*Annalisa Cappella, BS\*; Marco Cummaudo, MSc; Miranda Biraghi, BSc; Caterina Raffone, BSc; Nicholas Márquez-Grant, PhD; Cristina Cattaneo, PhD*
- 4:45 p.m. - 5:00 p.m.    **A121**    **Introducing the Macromorphoscopic Databank (MaMD): A Data Collection and Analytical Tool for the Analysis of Macromorphoscopic Trait Data**  
*Joseph T. Hefner, PhD\*; Amber M. Plemons, MA*

## Friday – Session II

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### Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy

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*Moderator: David O. Carter, PhD  
Chaminade University of Honolulu  
Forensic Sciences Unit  
Honolulu, HI*

*Co-Moderator: Eriek S. Hansen, PhD  
Colorado Mesa University  
Dept Biological Science  
Grand Junction, CO*

- 1:00 p.m. - 1:15 p.m.    **A122**    **Postmortem Interval Estimation Using the Blackened Osteocyte Method**  
*Sarah Long, BS\*; Lynne S. Bell, PhD; Joan A. Bytheway, PhD*



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- 1:15 p.m. - 1:30 p.m.    **H128**    **Changes in Bacterial Community Structure and the Estimation of Long-Term Postmortem Interval (PMI)**  
*Michael S. Woolf, MS\**; *Vanessa Sufrin, MS*; *Tal Simmons, PhD*;  
*Baneshwar Singh, PhD\**
- 1:30 p.m. - 1:45 p.m.    **E110**    **Bioelectrical Impedance Analysis as a Technique for Estimating the Postmortem Interval (PMI) in Human Remains**  
*Eriek S. Hansen, PhD\**; *Melissa A. Connor, PhD*; *Christiane Baigent, MSc*
- 1:45 p.m. - 2:00 p.m.    **E111**    **Measuring Desiccation Using Qualitative Changes**  
*Melissa A. Connor, PhD\**; *Christiane Baigent, MSc*; *Eriek S. Hansen, PhD*
- 2:00 p.m. - 2:15 p.m.    **A123**    **A New Approach to Estimating Accumulated Degree Days (ADD): Using Binary Observations From Various Regions of the Body With Random Forest Modeling (RFM) and Geographic Information Systems (GIS)**  
*Michael W. Kenyhercz, PhD\**; *Dawnie W. Steadman, PhD*; *Annemarie C. Gundel, BA*
- 2:15 p.m. - 2:30 p.m.    **A124**    **Validation of the Total Body Score/Accumulated Degree Days (TBS/ADD) Equation at 100, 300, 500, and 1,000 ADD on 30 Human Subjects With a Known Postmortem Interval (PMI) From Three Human Decomposition Facilities**  
*Joan A. Bytheway, PhD\**; *Nichole Miller*; *Dawnie W. Steadman, PhD*;  
*Kelly Sauerwein, MA*; *Daniel J. Wescott, PhD*; *Chaunesey Clemmons, BA*;  
*Devora S. Gleiber, BA*; *Chloe P. McDaniel, MA*; *Lauren A. Meckel, MA*
- 2:30 p.m. - 2:45 p.m.    **H129**    **Myiasis and Death: Factors and Complications Related to Estimating Time of Colonization After Antemortem Fly Colonization Followed by Death**  
*Michelle R. Sanford, PhD\**; *Darshan R. Phatak, MD*; *Alex John, MD*;  
*Michael R. Condron II, MD*
- 2:45 p.m. - 3:00 p.m.               **Break**

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## Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy

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*Moderator: Elizabeth A. Miller, PhD*  
*California State University, Los Angeles*  
*Department of Anthropology*  
*Los Angeles, CA*

*Co-Moderator: Audrey L. Meehan, BS*  
*Ewa Beach, HI*

- 3:00 p.m. - 3:15 p.m.    **H130**    **Coupled Microbiome and Insect Evidence in Death Investigation**  
*M. Eric Benbow, PhD\**; *Jennifer L. Pechal, PhD*; *Heather R. Jordan, PhD*;  
*McKinley Brewer, BS*; *Carl J. Schmidt, MD*
- 3:15 p.m. - 3:30 p.m.    **E112**    **WITHDRAWN**

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- 3:30 p.m. - 3:45 p.m. **H131** **Analyses of Necrobiome Structure and Function for Utility in Forensic Science**  
*Heather R. Jordan, PhD\**; *Zachary M. Burcham, BS*; *Jeffrey L. Bose, PhD*;  
*Jennifer L. Pechal, PhD*; *Jason Rosch, PhD*; *Carl J. Schmidt, MD*; *M. Eric Benbow, PhD*
- 3:45 p.m. - 4:00 p.m. **E113** **What Forensic Archaeology and Forensic Taphonomy Can Offer to Medicolegal Death Investigation**  
*Dennis C. Dirkmaat, PhD\**; *Luis L. Cabo, MS*
- 4:00 p.m. - 4:15 p.m. **E114** **Trauma and/or Taphonomy? Analysis of Peri-Mortem Trauma Observed in a Post-Battle World War II Cemetery and the Complications of Taphonomy in Discerning Trauma**  
*Kristen N. Baker, MA\**; *Hillary R. Parsons, PhD\**
- 4:15 p.m. - 4:30 p.m. **A125** **Vulture Scavenging of Small-Sized Pig Carcasses in Central Florida: Utilizing Geographic Information Systems (GIS) to Analyze Site Variables Affecting Skeletal Dispersal**  
*John J. Schultz, PhD\**; *Alexander T. Mitchell*
- 4:30 p.m. - 4:45 p.m. **A126** **Differential Temperatures of the Human Body and Fire**  
*Elayne J. Pope, PhD\**; *Amanda Williams, MA*; *Alison Galloway, PhD*
- 4:45 p.m. - 5:00 p.m. **H132** **Digging Up the Past — An Atypical Medical Examiner's Case**  
*Haley K. Scott, BSc\**; *Joseph T. Hefner, PhD*; *Philip R. Croft, MD, JD*

## Friday – Session III

### International Association of Forensic Sciences

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*Moderator: Kathy L. Gruspier, JD, PhD*  
*Ontario Forensic Pathology Services*  
*North York, CANADA*

*Co-Moderator: Michael S. Pollanen, MD*  
*Ontario Forensic Pathology Service*  
*Toronto, CANADA*

- 1:30 p.m. - 1:45 p.m. **A127** **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: An Overview of the Procedures of the Hosts of the Triennial Meeting of the International Association of Forensic Sciences, 2017, the Ontario Forensic Pathology Service (OFPS)**  
*Kathy L. Gruspier, JD, PhD\**
- 1:45 p.m. - 2:00 p.m. **A128** **A Mass Fatality Response and the Indigenous Community: The Intersection Between Science, Death, and Culture**  
*Kona Williams, MD\**
- 2:00 p.m. - 2:15 p.m. **A129** **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: The Scene and Its Challenges**  
*Renee C. Kosalka, MA\**



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- 2:15 p.m. - 2:30 p.m.    **A130**    **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: Postmortem Investigations**  
*Rebekah Jacques\**; *Kona Williams, MD*; *Jayantha Herath, MD*;  
*Kris Cunningham, MD*
- 2:30 p.m. - 2:45 p.m.    **A131**    **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: The Interdisciplinary Approach to Dental Identification**  
*Yolanda Nerkowski, BA\**; *Taylor L. Gardner, BFSc\**; *Robert E. Wood, DDS, PhD\**
- 2:45 p.m. - 3:00 p.m.    **A132**    **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: Forensic Anthropology**  
*Renee C. Kosalka, MA\**; *Kathy L. Gruspier, JD, PhD*
- 3:00 p.m. - 3:15 p.m.    **A133**    **A Multiple Fatality Response to Nine Indigenous Deaths in a Burned House in Pikangikum, Ontario: Disaster Victim Identification (DVI)**  
*Kathy L. Gruspier, JD, PhD\**; *Renee C. Kosalka, MA*; *Reuven R. Jhirad, MD*;  
*Yolanda Nerkowski, BA*; *Taylor L. Gardner, BFSc*; *Rebekah Jacques*;  
*Robert E. Wood, DDS, PhD*; *Kona Williams, MD*; *Jayantha Herath, MD*

## Saturday

### Trauma: Peri- vs. Postmortem, Sharp and Blunt Force

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*Moderator: Jonathan D. Bethard, PhD*  
*University of South Florida*  
*Department of Anthropology*  
*Tampa, FL*

*Co-Moderator: Emily R. Streetman, MA*  
*East Lansing, MI*

- 8:00 a.m. - 8:15 a.m.    **A134**    **The Use of Laser Scanning Confocal Microscopy in Distinguishing Between Peri-Mortem Trauma and Postmortem Damage Using Histotaphonomic and Histochemical Techniques**  
*Ashley C. Smith, MSc\**
- 8:15 a.m. - 8:30 a.m.    **A135**    **Skeletal Trauma Resulting From Falls Involving Stairs: An Analysis of Fracture Patterns and Morphologies Using Postmortem Computed Tomography (PMCT)**  
*Samantha K. Rowbotham, MA\**; *Soren Blau, PhD*; *Jacqueline Hislop-Jambrich, PhD*
- 8:30 a.m. - 8:45 a.m.    **A136**    **Concentrated Four-Point Bending and Fracture Behavior in the Human Femora**  
*Mariyam I. Isa, BS\**; *Todd W. Fenton, PhD*; *Patrick E. Vaughan, BS*; *Feng Wei, PhD*;  
*Roger C. Haut, PhD*
- 8:45 a.m. - 9:00 a.m.    **A137**    **Differentiating Between Sharp Force Trauma (SFT) Defects and Insect Invasion of the Skin of Human Cadavers Throughout the Decomposition Process in a Terrestrial and Fluvial Environment**  
*Sierra Smith, BA\**; *Kevin R. Derr*; *Joan A. Bytheway, PhD*

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- 9:00 a.m. - 9:15 a.m. **A138** **Constricting Structures: A Critical Analysis of a Past Forensic Anthropology Case Through the Systematic Examination of a Neck Organ Block Traumatic Injury in the Present**  
*Austin L. Polonitza, BS\**; *Heather A. Walsh-Haney, PhD*
- 9:15 a.m. - 9:30 a.m. **Break**

## Forensic Border Coalition

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*Moderator: Kate Spradley, PhD*  
*Texas State University*  
*Department of Anthropology*  
*San Marcos, TX*

*Co-Moderator: Christine M. Kovic, PhD*  
*University of Houston-Clear Lake*  
*Houston, TX*

- 9:30 a.m. - 9:45 a.m. **A139** **Searching for the Unidentified in South Texas: The Forensic Border Coalition (FBC) Cemetery Survey Project**  
*Kate Spradley, PhD\**; *Mercedes Doretti, PhD*;  
*Eduardo Canales, BS*; *Molly Miranker, MA*; *Rachel Daniell, MPhil*;  
*Timothy P. Gocha, PhD*; *Ryan Strand, BS*; *Alberto Giordano, PhD*
- 9:45 a.m. - 10:00 a.m. **A140** **The Forensic Border Coalition (FBC): Collaborations in Forensic Sciences, Human Rights, and Public Policy**  
*Christine M. Kovic, PhD\**; *Mercedes Doretti, PhD*;  
*Eduardo Canales, BS*; *Molly Miranker, MA*; *Rachel Daniell, MPhil*; *Ryan Strand, BS*;  
*Timothy P. Gocha, PhD*; *Robin C. Reineke, PhD*; *Chelsea Halstead, BA*
- 10:00 a.m. - 10:15 a.m. **A141** **The Role of the Anthropologist in the Identification and Repatriation of Deceased Migrants Along the United States-Mexico Border**  
*Timothy P. Gocha, PhD\**; *Kate Spradley, PhD*; *Ryan Strand, BS*;  
*Bruce E. Anderson, PhD*; *Alicia Lusiardo*
- 10:15 a.m. - 10:30 a.m. **A142** **Addressing the Challenges of Migrant Death Investigations Through Non-Governmental Organization (NGO) and Government Agency Collaborations**  
*Ryan Strand, BS\**; *Eduardo Canales, BS*; *Molly Miranker, MA*; *Robin C. Reineke, PhD*
- 10:30 a.m. - 10:45 a.m. **A143** **Missing Migrant Data Managed by the Forensic Border Coalition (FBC)**  
*Robin C. Reineke, PhD\**; *Carmen E. Osorno Solís*; *Mercedes Doretti*;  
*Rachel Daniell, MPhil*; *Ryan Strand, BS*; *Chelsea Halstead, BA*
- 10:45 a.m. - 11:00 a.m. **A144** **Identification Notifications and Their Applicability to Families of Missing Migrants**  
*Carmen E. Osorno Solís\**; *Mercedes Doretti*; *Karla Hernandez, BA*
- 11:00 a.m. - 11:15 a.m. **Break**



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## Odds and Ends

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*Moderator: Lauren R. Pharr, PhD  
Knoxville, TN*

*Co-Moderator: Amber M. Plemons, MA  
Michigan State University  
Department of Anthropology  
East Lansing, MI*

- 11:15 a.m. - 11:30 a.m.    **A145**    **The Evolution of Forensic Anthropology and the Influence of Court Rulings, Legislative Actions, and Social Trends**  
*Jennifer C. Love, PhD\**; *Laura C. Fulginiti, PhD*
- 11:30 a.m. - 11:45 a.m.    **A146**    **Virtual Skeletal Data — The Ethical, Technical, and Legal Questions Anthropology Faces When Working With Virtual Skeletal Remains**  
*Roland Wessling, MSc\**
- 11:45 a.m. - 12:00 p.m.    **A147**    **A Review of Statutes in Place to Stem the Commodification of Human Skeletal Remains in the United States**  
*Ryan M. Seidemann, MA\**; *Christine L. Halling, MS*

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*Wednesday*

## Poster Session

- 11:30 a.m. - 1:00 p.m. **B1** **The Development and Initial Evaluation of a MicroRNA (miRNA) System for Forensically Relevant Body Fluids Using Capillary Electrophoresis**  
*Carrie Mayes, BS\**; *David A. Gangitano, PhD*; *Sheree R. Hughes-Stamm, PhD*
- 11:30 a.m. - 1:00 p.m. **B2** **The Development and Evaluation of Real-Time Polymerase Chain Reaction (PCR) Methods for DNA Methylation-Based Identification of Semen and Blood**  
*Ken Watanabe\**; *Ayari Takamura, MS*; *Tomoko Akutsu, PhD*
- 11:30 a.m. - 1:00 p.m. **B3** **Investigating the Identification of Vaginal Material Using Histological, Spectroscopic, and Molecular Methods**  
*Claire Glynn, PhD*; *Justine Kawa, BS\**
- 11:30 a.m. - 1:00 p.m. **B4** **The Use of Proximity Ligation Assays Coupled With Real-Time Polymerase Chain Reaction (PCR) as a Detection Method for Proteins Within Blood for Forensic Analysis**  
*Katherine Hargett, BS\**; *Daniele S. Podini, PhD*
- 11:30 a.m. - 1:00 p.m. **B5** **The Effect of Washing and Blood-Enhancement Reagents on the Use of Raman Spectroscopy for Human Blood Identification**  
*Tyler J. Schlagetter\**; *Claire Glynn, PhD*
- 11:30 a.m. - 1:00 p.m. **B6** **A Comparative Analysis of Commercially Available Protein and Peroxidase Reagents for Blood Detection and Enhancement on Laundered Clothing of Varying Fabric Types**  
*Gabrielle A. Hartley\**; *Claire Glynn, PhD*
- 11:30 a.m. - 1:00 p.m. **B7** **Rapid and Reliable Validation of Body Fluids Using Paper Microfluidic Device ( $\mu$ PAD) Chips**  
*Rosa L. Cromartie, BS\**; *Ashley T. Wardlow*; *George T. Duncan, PhD*;  
*Bruce R. McCord, PhD*
- 11:30 a.m. - 1:00 p.m. **B8** **The Detection of MicroRNAs (miRNAs) in DNA Extraction Methods Commonly Used for Forensic Casework**  
*Carolyn Lewis, BS\**; *Tiffany R. Layne, MS*; *Sarah J. Seashols Williams, PhD*
- 11:30 a.m. - 1:00 p.m. **B9** **Y-Screening and Direct Amplification of Casework Samples**  
*Jeanne Bourdeau-Heller, PhD*; *Robert McLaren, PhD*; *Amy McGuckian, MSFS*;  
*Jerome G. Remm, MFS*; *Julie Conover Sikorsky, MS*; *Anupama Gopalakrishnan, PhD*;  
*Lotte Downey, MSc\**; *Douglas R. Storts, PhD*
- 11:30 a.m. - 1:00 p.m. **B10** **Evaluating the Success of DNA Analysis and Latent Print Examinations on Submitted Firearms**  
*Karlee Rock, BA\**; *Victor Murillo, BA*; *Season E. Seferyn, MSFS*; *Terry Fenger, PhD*





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- 11:30 a.m. - 1:00 p.m. **B11** **The Persistence of Ignitable Liquids on Laundered T-Shirts**  
*Michelle Corbally, MS\**; *Katherine D. Hutches, PhD*
- 11:30 a.m. - 1:00 p.m. **B12** **Trace Chemical Analysis of Potassium Permanganate Hypergolic Mixtures Analyzed With Inductively Coupled Plasma/Optical Emission Spectroscopy (ICP/OES)**  
*Waldon Chen, BSc\**; *Joseph B. McGee Turner, PhD*; *Eric Hazelrigg, MS*;  
*Christopher J. Ehrhardt, PhD*
- 11:30 a.m. - 1:00 p.m. **B13** **Updates From the Drug Enforcement Administration National Forensic Laboratory Information System (NFLIS): Benzodiazepines Reported in the NFLIS — 2009-2015**  
*DeMia P. Pressley, MS*; *Artisha Polk, MS*; *Liqun Wong, MS*; *Kevin Strom, PhD*;  
*Katherine N. Moore, MS\**; *David Heller, BS*; *Jeffrey M. Ancheta, BS*;  
*BeLinda J. Weimer, MA*; *Hope Smiley-McDonald, PhD*; *Jeri D. Roper-Miller, PhD*
- 11:30 a.m. - 1:00 p.m. **B14** **Hand Odor Volatiles and Drug Abuse: A Pilot Study Using a Chemical-Dependent Target Group**  
*Silas Kibet Kemboi, BA\**; *Megan Thoen, PhD*; *Paola A. Prada, PhD*
- 11:30 a.m. - 1:00 p.m. **B15** **Forensic Drug Analysis by Thermal Desorption and Pyrolysis Combined With Direct Analysis in Real Time-Mass Spectrometry (TDP/DART®-MS)**  
*Hiroko Abe, MA*; *Chikako Takei\**; *Yasuo Shida, PhD*; *Motoshi Sakakura, PhD*;  
*Teruhisa Shiota*; *Kayako Suga*; *Daisuke Yajima, MD*; *Hirotarō Iwase, PhD*
- 11:30 a.m. - 1:00 p.m. **B16** **Semi-Quantitation of Trace Drug Residues on Fabric by Direct Analysis in Real-Time (DART®)**  
*Samantha B. Josselyn*; *David Cunningham, PhD\**
- 11:30 a.m. - 1:00 p.m. **B17** **Microcrystalline Tests for Emerging Drugs of Abuse**  
*Matthew Quinn\**; *Monica Joshi, PhD*
- 11:30 a.m. - 1:00 p.m. **B18** **The Development of a Characterization Scheme for Emerging Synthetic Phenethylamines**  
*Alexandria Anstett, BS\**; *David Alonso, PhD*; *A. Daniel Jones, PhD*;  
*Ruth Waddell Smith, PhD*
- 11:30 a.m. - 1:00 p.m. **B19** **Portable Trace Vapor Sampling With Field-Capable Porous Layer Open Tubular (PLOT) -Cryoadsorption**  
*Megan Harries, BS*; *Thomas J. Bruno, PhD\**
- 11:30 a.m. - 1:00 p.m. **B20** **An Examination of Hypergolic Mixtures Involving Potassium Permanganate and Select Fuels**  
*Stephanie R. Harrold, BS\**; *Wayne Moorehead, MS*
- 11:30 a.m. - 1:00 p.m. **B21** **A Comparison of Headspace Cannabinoid Profiles Detected From Different Structures of Dried Cannabis Inflorescences**  
*Austin L. McDaniel, BS\**; *Jorn Chi-Chung Yu, PhD*; *James D. Sweet, PhD*

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- 11:30 a.m. - 1:00 p.m. **B22** **Validation of Various Fingerprint Processes in a Medium-Size Municipal Laboratory**  
*Dave Castle, BS; Catherine G. Rushton, MSFS; Ted Smith, MS; Terry Fenger, PhD; Amanda A. Wilberg, BS\**
- 11:30 a.m. - 1:00 p.m. **B23** **An Appropriate and Practical Sample Preparation Procedure for Clean-Up and Analysis of Explosives Residues**  
*Hui Si Lim\**
- 11:30 a.m. - 1:00 p.m. **B24** **Seeing Through Noise: Investigating Information Sampling and Weighting in Fingerprint Recognition**  
*Silke Jensen\*; Doug Barrett, PhD; Lisa L. Smith, PhD*
- 11:30 a.m. - 1:00 p.m. **B25** **Gold Nanoparticles (AuNPs)/Aptamer-Based Paper Microfluidic Devices Developed for the Detection of Cocaine**  
*Bruce R. McCord, PhD; Ling Wang, MS\**
- 11:30 a.m. - 1:00 p.m. **B26** **The Analysis of 2,5-Dimethoxy-N-(N-methoxybenzyl)phenethylamine (NBOMe) Isomers Using Traditional and Fast Gas Chromatography/Mass Spectrometry (GC/MS)**  
*Jay T. Davidson, BS\*; Glen P. Jackson, PhD*
- 11:30 a.m. - 1:00 p.m. **B27** **Profiling the Use of Explosives in Automated Teller Machine (ATM) Robberies in Brazil**  
*Joao Carlos L. Ambrosio, MSc\*; Lucio L. Logrado, MS; Natália H. Puentes, BS*
- 11:30 a.m. - 1:00 p.m. **B28** **The Development and Preliminary Validation of an App for Recording and Interpreting Colorimetric Drug Test Results**  
*Kelly M. Elkins, PhD\*; Thomas Boise\*; Alicia Quinn, BS; Subrata Acharya, PhD*
- 11:30 a.m. - 1:00 p.m. **B29** **Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Detection of Cocaine in Packaging Residue**  
*Jonas Widness\*; Jason Dickmeyer\*; Douglas Beussman, PhD*
- 11:30 a.m. - 1:00 p.m. **B30** **Direct Thermal Desorption Coupled to Gas Chromatography/Mass Spectrometry (GC/MS) for the Characterization of Organic Firearm Discharge Residues**  
*William Feeney, BS; Lindsay Cheeseman\*; Suzanne Bell, PhD*
- 11:30 a.m. - 1:00 p.m. **B31** **Fabric Phase Sorptive Extraction (FPSE) Media: A Novel Forensic Sample Collection and Storage Device**  
*Abuzar Kabir, PhD\**
- 11:30 a.m. - 1:00 p.m. **B32** **The Identification and Quantification of Sexual Lubricant Degradation Pathways From Exposure to the Vaginal Bacterial Environment**  
*Danielle Green, BS\*; Candice Bridge, PhD*
- 11:30 a.m. - 1:00 p.m. **B33** **Application of Gas Chromatography-Vacuum Ultraviolet (GC-VUV) Spectroscopy in the Analysis of Synthetic Cathinones**  
*Angelica D. Szewczak, BS\*; Cory A. Vaught, BSc; Jonathan P. Smuts, PhD; Walter F. Rowe, PhD; Ira S. Lurie, PhD*



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## Thursday — Session I

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### Our Future Reflects Our Past: The Evolution of Criminalistics

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*Moderator: Patrick Buzzini, PhD  
Sam Houston State University  
Chemistry/Forensic Science Bldg  
Huntsville, TX*

*Co-Moderator: Rebecca E. Bucht, PhD  
Helsinki, FINLAND*

- 8:30 a.m. - 9:45 a.m.    **B34**    **Our Future Reflects Our Past: The Evolution of Criminalistics**  
*Patrick Buzzini, PhD; Rebecca E. Bucht, PhD; Peter R. De Forest, DCrim\*;  
Douglas M. Lucas, DSc\*; Pierre A. J-L. Margot, PhD\*; Claude Roux, PhD\*;  
Sheila Willis, PhD\**
- 9:45 a.m. - 10:15 a.m.    **Discussion**
- 10:15 a.m. - 10:30 a.m.    **Break**

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### Firearms and Tool Marks

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*Moderator: April Wong, MS  
Los Angeles County Sheriff's Department  
Los Angeles, CA*

*Co-Moderator: Kevin Lothridge, MSc  
NFSTC  
Largo, FL*

- 10:30 a.m. - 10:45 a.m.    **B35**    **Implementing 3D Virtual Comparison Microscopy Into Forensic Firearm/Tool Mark Examinations**  
*Erich D. Smith, MS\*; Heather J. Seubert, MS*
- 10:45 a.m. - 11:00 a.m.    **B36**    **A Framework for Firearm Tool Mark Population Statistics**  
*Xiaoyu A. Zheng, MS\*; Johannes A. Soons, PhD; Daniel Ott, PhD*
- 11:00 a.m. - 11:15 a.m.    **B37**    **Performance Evaluation and Calibration Artifacts for 3D Ballistic Imaging**  
*Michael T. Stocker\*; Johannes A. Soons, PhD; Robert M. Thompson, BS;  
Thomas B. Renegar, BS; Xiaoyu A. Zheng, MS*
- 11:15 a.m. - 11:30 a.m.    **B38**    **Determining the Angle of Impact From the Analysis of Bullets Following Perforation of Glass**  
*Roger Jefferys, BS\*; Keith B. Morris, PhD*
- 11:30 a.m. - 11:45 a.m.    **B39**    **The Determination of Critical Angle in Automobile Windshield Glass Using 9mm Luger® Ammunition**  
*Peter J. Diaczuk\*; Tara L. Goldfrank, MS*

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11:45 a.m. - 12:00 p.m. **B40** **Improved Total Nitrite Visualization (TNV) for Gunshot Distance Determination**  
*Jason Berger, MS\**; *Eliot Springer, MSc*; *Colin J. Upton, MS*

12:00 p.m. - 1:00 p.m. **Lunch**

## Poster Session

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11:30 a.m. - 1:00 p.m. **B41** **Using Clonal Massively Parallel Sequencing (MPS) to Characterize Heteroplasmy in the Mitochondrial DNA (mtDNA) of Human Head Hair, Pubic Hair, and Buccal Samples**  
*Erin A. Laurie, MS\**; *Janice Lin, BA*; *George Sensabaugh, DCrim*;  
*Cassandra Calloway, PhD*

11:30 a.m. - 1:00 p.m. **B42** **The Forensic Value of Processed Human Hair Extensions**  
*Caitlin E. Porterfield, MS\**; *James P. Creecy, MS*

11:30 a.m. - 1:00 p.m. **B43** **A Proteomic Analysis of Human Hair From Various Body Sites**  
*Pei Wen Wu, MS*; *Zachary C. Goecker, BS\**; *Glendon Parker, PhD*; *Robert Rice, PhD*

11:30 a.m. - 1:00 p.m. **B44** **Validation of a Method to Sequence the Mitochondrial Genome of High-Quality Reference Samples Using the Illumina® MiSeq® FGx Platform**  
*Michelle A. Peck, MFS*; *Kimberly S. Andreaggi, MFS*; *Jacqueline T. Thomas, MS*;  
*Robert S. Oliver, MSc*; *Suzanne M. Barritt-Ross, MS*; *Charla Marshall, PhD\**

11:30 a.m. - 1:00 p.m. **B45** **Analyzing DNA Mixtures Using Polymerase Chain Reaction/Capillary Electrophoresis (PCR/CE) Compared to Next Generation Sequencing (NGS)**  
*Katherine Welch, MSFS\**; *Justin J. Foster, PhD*; *Joseph Truppi, BS*;  
*Michael A. Donley, MS*; *Roger Kahn, PhD*

11:30 a.m. - 1:00 p.m. **B46** **Comparative Tolerance of Short Tandem Repeat (STR) and Massively Parallel Sequencing (MPS) Chemistries to Inhibited Samples**  
*Kyleen Elizabeth Elwick, BA\**; *Charity M. Beherec, MS*; *David A. Gangitano, PhD*;  
*Sheree R. Hughes-Stamm, PhD*

11:30 a.m. - 1:00 p.m. **B47** **Fetal DNA Detection in Pregnancy Serum Using the Ion Personal Genome Machine® (PGM™) System With an Identity Single Nucleotide Polymorphism (SNP) Panel**  
*Jihyun Lee*; *Hee Jin Seo*; *Moon Young Kim, MD*; *Chong Jai Kim, MD*;  
*Kun Woo Kim, MD*; *Doyeong Hwang, MD*; *Soong Deok Lee, PhD\**

11:30 a.m. - 1:00 p.m. **B48** **A Preliminary Sensitivity Assessment Comparing Two Next Generation Sequencing (NGS) Laboratory Workflows for Forensic Analysis**  
*Adriana N. Swatzell\**; *Jocelyn M. Bush, MS*; *Elizabeth Montano, MS*

11:30 a.m. - 1:00 p.m. **B49** **Optimization of a Droplet Digital™ Polymerase Chain Reaction (ddPCR™) Assay for the Quantitative and Qualitative Analysis of Illumina® MiSeq® Massively Parallel Sequencing (MPS) Libraries**  
*Brittania J. Bintz, MSc\**



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- 11:30 a.m. - 1:00 p.m. **B50** **Separating Complex DNA Mixtures Containing Related Individuals Using TrueAllele® Mixture Interpretation Software**  
*Olivia D. Goodwin\**; *Lisa R. Ludvico, PhD*; *Lyndsie N. Ferrara, MS*
- 11:30 a.m. - 1:00 p.m. **B51** **Microhaplotypes (MHs): A Possible Biogeographic Ancestry Predictor for Forensic DNA Evidence**  
*Kelly E. Long, BSc\**; *Katrina F. Maddela, BS\**
- 11:30 a.m. - 1:00 p.m. **B52** **Rapid DNA Amplification of Forensic Samples**  
*Silvia Zoppis, MD\**; *Manuela Rosini, MSc*; *Fabio Verginelli, PhD*; *Carla Vecchiotti*;  
*Bruce R. McCord, PhD*
- 11:30 a.m. - 1:00 p.m. **B53** **Using Rapid DNA Analysis to Obtain DNA Profiles From Improvised Explosive Devices (IEDs)**  
*Alexis Parr, BS\**; *Timothy M. Palmbach, MS, JD*; *Michael S. Adamowicz, PhD*
- 11:30 a.m. - 1:00 p.m. **B54** **The Characterization and Differentiation of 21 Fentanyl Analogues by Gas Chromatography/Mass Spectrometry (GC/MS), Liquid Chromatography/Mass Spectrometry (LC/MS), and Nuclear Magnetic Resonance (NMR) Spectroscopy**  
*Tatsuyuki Kanamori\**; *Yuko Togawa Iwata, PhD*; *Hiroki Segawa, PhD*;  
*Tadashi Yamamuro, PhD*; *Kenji Kuwayama, PhD*; *Kenji Tsujikawa, PhD*;  
*Hiroyuki Inoue, PhD*
- 11:30 a.m. - 1:00 p.m. **B55** **An Investigation Into the Preservation and Storage Conditions for Extracts of Ignitable Liquid Residues**  
*Clare M. Fried, BS\**; *Thomas A. Brettell, PhD*
- 11:30 a.m. - 1:00 p.m. **B56** **Optimizing a Sequence of Methods for the Development of Latent Fingerprints on Thermal Paper**  
*Reyne Spychalski, BSc\**; *Kimberly Gerhardt, MS*; *Dave Castle, BS*;  
*Terry Fenger, PhD*
- 11:30 a.m. - 1:00 p.m. **B57** **Shooting Distance Estimation Using Gunshot Residue (GSR) on Mammalian Pelts**  
*Cory A. Weiss, BS\**; *Ralph R. Ristenbatt III, MS*; *Jason W. Brooks, VMD, PhD*
- 11:30 a.m. - 1:00 p.m. **B58** **The Development of an Infrared Microspectroscopy Method for Microcrystals**  
*Michael Cain, Jr.\**; *Monica Joshi, PhD*
- 11:30 a.m. - 1:00 p.m. **B59** **Ion Trap Mobility Spectrometry Nuisance Alarm Threshold Analysis for Illicit Narcotics Based on Environmental Background and a Receiver Operating Characteristic (ROC) -Curve Approach**  
*Thomas P. Forbes, PhD*; *Marcela Najjarro, MFS\**
- 11:30 a.m. - 1:00 p.m. **B60** **Primary Ion Middle Ion Structural Analysis (PIMISA®) -Enabled Direct Analysis in Real-Time (DART®) QDa® Mass Spectrometer (MS): The Latest Development in Forensic Analysis Efficiency**  
*Rachel C. Beck, PhD\**; *Frederick Li, MS*; *Brian Musselman, PhD*

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- 11:30 a.m. - 1:00 p.m. **B61** **Latent Print Development on Duct Tape Using Rhodamine 6G/Tween® 20 Solution on Simulated Evidence Samples**  
*Nicole Rapino, BA\**; *Stephen C. King*; *Catherine G. Rushton, MSFS*;  
*Pamela J. Staton, PhD*
- 11:30 a.m. - 1:00 p.m. **B62** **Do Hygiene Products Cause False Positives in Arson Investigations?**  
*Sierra M. Stinson\**; *Gabriel M. Walkup*; *Glen P. Jackson, PhD*
- 11:30 a.m. - 1:00 p.m. **B63** **Rapid Analysis of Peptides and Proteins Utilizing Matrix-Assisted Inlet Ionization Mass Spectrometry**  
*Kyle E. Vircks, MS\**; *Jesse M. Zavala, MS*; *Yibin Wang, PhD*; *Robert B. Cody, PhD*;  
*Warren C. Samms, PhD*; *Roger Kahn, PhD*
- 11:30 a.m. - 1:00 p.m. **B64** **The Effect of Environmental Conditions and Substrate Material on the Weathering of Gasoline and Light Petroleum Distillates**  
*Matthew Ciano\**; *Robert H. Powers, PhD*; *Erika Chen, MS*; *Michael Valetutti, MS*;  
*Brooke W. Kammrath, PhD*
- 11:30 a.m. - 1:00 p.m. **B65** **WITHDRAWN**
- 11:30 a.m. - 1:00 p.m. **B66** **Thermochemical Characterization of Cannabinoids by Porous Layer Open Tubular-Cryoadsorption (PLOT-Cryo) and Nuclear Magnetic Resonance (NMR)**  
*Tara Lovestead, PhD\**; *Jessica Burger, PhD*; *Thomas J. Bruno, PhD*
- 11:30 a.m. - 1:00 p.m. **B67** **The Applicability of Vacuum Ultraviolet (VUV) Spectroscopy as a Gas Chromatography (GC) Detection Technique for Synthetic Cannabinoids**  
*Cory A. Vaught, BSc\**; *Angelica D. Szewczak, BS*; *Walter F. Rowe, PhD*;  
*Jonathan P. Smuts, PhD*; *Ira S. Lurie, PhD*
- 11:30 a.m. - 1:00 p.m. **B68** **Profiling Reaction Intermediates and By-Products in Illicit Synthetic Drug Samples Using Direct Analysis in Real Time (DART®) and an Ion Trap Mass Spectrometer**  
*Ashley Windom\**; *Kenyon M. Evans-Nguyen, PhD*
- 11:30 a.m. - 1:00 p.m. **B69** **A New Method for Non-Contact Recovery of Footwear Mark Impressions Using a 3D Structured Light Scanner**  
*Paul Norris\**; *Tim Thompson, PhD*; *Mark Butler, PhD*
- 11:30 a.m. - 1:00 p.m. **B70** **Service Implementation for the Identification of Gunshot Residue (GSR) in Rio de Janeiro, Brazil**  
*Denilson Siqueira*; *Renata C. Silva\**
- 11:30 a.m. - 1:00 p.m. **B71** **Flow Injection Analysis-Triple Quadrupole (FIA-QQQ) Characterization of Organic and Inorganic Constituents of Firearms Discharge Residue (FDR) Using a Single Injection: The Potential for Rapid Screening of FDR**  
*William Feeney, BS*; *Sydney Brooks, BS\**; *Suzanne Bell, PhD*



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- 11:30 a.m. - 1:00 p.m. **B72** **A Single Extraction, Consecutive Detection of Organic and Inorganic Firearms Discharge Residue Using Thermal Desorption Gas Chromatography/Mass Spectrometry (TD-GC/MS) and Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)**  
*Kristin M. Kelly, BSc; Joseph A. Stein\*; Suzanne Bell, PhD*
- 11:30 a.m. - 1:00 p.m. **B73** **An Evaluation of the Repeatability, Reproducibility, and Uncertainty of Retention Indices and Electron Impact Spectra of Selected Novel Psychoactive Substances (NPS)**  
*Kristin M. Kelly, BSc\*; Jordan Sekinger; Victoria Zeger\*; Suzanne Bell, PhD*

## Fire Debris and Explosives

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*Moderator: Katherine D. Hutches, PhD*  
*ATF*  
*Walnut Creek, CA*

*Co-Moderator: Kenyon M. Evans-Nguyen, PhD*  
*Tampa, FL*

- 1:00 p.m. - 1:15 p.m. **B74** **Comparing the Response of Portable Hydrocarbon Detectors to Laboratory Analysis of Household Substrates**  
*Jamie M. Baerncopf, MS\*; Carl Anuszczyk, MS*
- 1:15 p.m. - 1:30 p.m. **B75** **Identification of Potential Target Compounds in Fire Debris**  
*Mary R. Williams, MS\*; Anuradha Akmeemana, MS; Michael E. Sigman, PhD*
- 1:30 p.m. - 1:45 p.m. **B76** **Probabilistic Assertions in Fire Debris Analysis Based on Chemical Compound Occurrence**  
*Michael E. Sigman, PhD\*; Mary R. Williams, MS; Alysaa Allen*
- 1:45 p.m. - 2:00 p.m. **B77** **A Quantitative Approach to Differentiating Mixtures of Gasoline and No. 2 Fuel Oil From No. 2 Fuel Oil Using Gas Chromatography/Mass Spectrometry (GC/MS) Target Compound Analysis Ratios**  
*Christopher Guglielmo, MS; Thomas Kubic, JD, PhD; Nicholas D. Petraco, PhD; Philip R. Antoci, MS\**
- 2:00 p.m. - 2:15 p.m. **B78** **Source Inference of Gasoline: The Contributions of Gas Chromatography/Mass Spectrometry (GC/MS) and Gas Chromatography/Isotope Ratio Mass Spectroscopy (GC/IRMS) Analyses**  
*Luc Besson, PhD; Olivier Delémont, PhD\**
- 2:15 p.m. - 2:30 p.m. **B79** **Morphology and Microanalysis of Aluminum (Al) Powders From Amateur Improvised Explosive Device (IED) Methods**  
*JenaMarie Baldaino, MS\*; Jack Hietpas, PhD; JoAnn Buscaglia, PhD*
- 2:30 p.m. - 2:45 p.m. **B80** **The Effect of Time on the Quantity of Triacetone Triperoxide (TATP) on Different Surfaces**  
*Mohammad H. Alotaibi, PhD\*; Mansour Dahish Ajarim, PhD; Abdulghani Alshehri, PhD; Ahmed A. Aljanobi, PhD*



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2:45 p.m. - 3:00 p.m. **B81** **Characterization of Pre- and Post-Burn Smokeless Powders by Direct Analysis in Real-Time Time-of-Flight/Mass Spectrometry (DART®-TOF/MS) vs. Gas Chromatography/Mass Spectrometry (GC/MS)**  
*Emily C. Lennert, BS\**; *Candice Bridge, PhD*

3:00 p.m. - 3:15 p.m. **Break**

## Drug Chemistry: Part 1

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*Moderator: Eileen M. Briley, MS*  
*Virginia Department of Forensic Sciences*  
*Central Lab*  
*Richmond, VA*

*Co-Moderator: Tammi Jacobs Shulman, BS*  
*Westchester County*  
*Forensic Lab*  
*Valhalla, NY*

3:15 p.m. - 3:45 p.m. **B82** **Assessing the Quality and Reliability of Drug Identifications**  
*Sandra E. Rodriguez-Cruz, PhD\**; *Ramona S. Montreuil, MS*

3:45 p.m. - 4:15 p.m. **B83** **2017 Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG) Update — A Discussion on Drug Analysis Techniques and A-B-C Categorization**  
*Sandra E. Rodriguez-Cruz, PhD\**

4:15 p.m. - 4:30 p.m. **B84** **No Lab, No Plea . . . Eliminating a Controlled Substances Backlog**  
*James T. Miller, BS\**

4:30 p.m. - 4:45 p.m. **B85** **The Implementation of Blind Proficiency Testing in Drug Analysis**  
*Paula Evans, BS*; *Aimee R. Grimaldi, MS\**; *Callan Hundl, BS*; *Jackeline Moral, MS*;  
*Lori Wilson, BS*

4:45 p.m. - 5:00 p.m. **B86** **Quantifying Uncertainty in Estimations of the Total Weight of Drugs in Groups of Complex Matrices Using the Welch-Satterthwaite Equation**  
*Ivo Alberink, PhD\**; *Annette Sprong, BSc*; *Annabel Bolck, PhD*; *Peter Vergeer, PhD*

5:00 p.m. - 5:15 p.m. **B87** **WITHDRAWN**

5:15 p.m. - 5:30 p.m. **B88** **An Analysis of Illicit Drugs in Wastewater: A Forensic Perspective**  
*Frederic Been, PhD*; *Lisa Benaglia, MSc*; *Robin Udrisard, MSc*; *Pierre Esseiva, PhD*;  
*Olivier Delémont, PhD\**





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## Thursday — Session II

### Body Fluid Identification and Non-Human Screening

*Moderator: Sheree R. Hughes-Stamm, PhD  
Sam Houston State University  
Dept of Forensic Science  
Huntsville, TX*

*Co-Moderator: Lisa M. Burdett, MS  
Kansas Bureau of Investigation  
Great Bend, KS*

- 8:30 a.m. - 8:50 a.m. **B89** **Forensic Body Fluid Identification and Differentiation by Raman Spectroscopy**  
*Claire Muro, BS\*; Kyle C. Doty, BS; Luciana de Souza Fernandes, BS;  
Igor K. Lednev, PhD*
- 8:50 a.m. - 9:05 a.m. **B90** **Accurately Estimating the Time Since Deposition (TSD) of Bloodstains Aged for More Than Two Years**  
*Kyle C. Doty, BS\*; Igor K. Lednev, PhD*
- 9:05 a.m. - 9:20 a.m. **B91** **Toward Surface-Enhanced Raman Spectroscopy (SERS) -Active Forensic Evidence Swabs for Human Bodily Fluids**  
*Matt Burlison, BS; Katarina G. Ruehl; Vinay G. Bhardwaj, PhD;  
Brittania J. Bintz, MSc; David D. Evanoff, Jr., PhD\**
- 9:20 a.m. - 9:35 a.m. **B92** **A New Approach Combining *In Silico* and High-Resolution Melt (HRM) Analysis to Quickly Identify New Loci for Body Fluid Identification Using DNA Methylation Melt Analysis**  
*Joana Antunes, MS\*; Vanessa Aguiar-Pulido, PhD; Kuppareddi Balamurugan, PhD;  
George T. Duncan, PhD; Giri Narasimhan, PhD; Bruce R. McCord, PhD*
- 9:35 a.m. - 9:50 a.m. **B93** **The Development and Validation of a Dual-Genus Quantitative Polymerase Chain Reaction (qPCR) Assay for African and Asian Elephants for Forensic Purposes**  
*Merideth J. Fayman, BS; Caitlin Hoey; Meredith Rohrbaugh, MS;  
Jillian C. Fesolovich, MSFS\**
- 9:50 a.m. - 10:05 a.m. **B94** **The Individualization of Pubic Hair Bacterial Communities and the Effects of Storage Time and Temperature**  
*Diana W. Williams, MSFS\*; Greg Gibson, PhD*
- 10:05 a.m. - 10:20 a.m. **B95** **The Development and Validation of a New 13-Loci Short Tandem Repeat (STR) Multiplex for *Cannabis sativa* Genetic Identification**  
*Rachel M. Houston, BS\*; Sheree R. Hughes-Stamm, PhD; David A. Gangitano, PhD*
- 10:20 a.m. - 10:35 a.m. **B96** **The Development and Testing of a Top-Down Proteomic Method for the Confirmatory Identification of Saliva**  
*Kevin M. Legg; Heather E. McKiernan, MSFS; Shanan S. Tobe, PhD;  
Phillip Danielson, PhD; Brianna L. Robbins, BA\**
- 10:35 a.m. - 10:45 a.m. **Break**

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## Rapid DNA and More

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*Moderator: Deedra S. Hughes, MFS  
Pearl, MS*

*Co-Moderator: Tracey Dawson Cruz, PhD  
Virginia Commonwealth University  
Richmond, VA*

- 10:45 a.m. - 11:05 a.m.    **B97**    **A Rotationally Driven Microdevice (RDM) and Its Associated Low Footprint Instrument With the Potential of Fully Automated Integrated DNA Extraction, Polymerase Chain Reaction (PCR) Amplification, and Separation for Forensic DNA Analysis**  
*Delphine Le Roux, PhD\**; *Daniel A. Nelson, PhD*; *Brandon L. Thompson, MSc*;  
*Jacquelyn A. DuVall, BSc*; *An-Chi Tsuei, MS*; *Christopher Birch, PhD*; *Jingyi Li, PhD*;  
*Daniel Lee Mills, BS*; *Brian E. Root, PhD*; *James P. Landers, PhD*
- 11:05 a.m. - 11:20 a.m.    **B98**    **A Novel, Extraction-Polymerase Chain Reaction (PCR) Microdevice on a Rotation-Driven Platform: Buccal Swab to Short Tandem Repeat (STR) Product in Less Than Two Hours**  
*Jordan Cox, MS\**; *Teresa Sikes DeCarmen, MS*; *Catherine Cupples Connon, PhD*;  
*Kemper Gibson, BS*; *Kimberly Jackson*; *James P. Landers, PhD*;  
*Tracey Dawson Cruz, PhD*
- 11:20 a.m. - 11:35 a.m.    **B99**    **Ultrahigh-Speed Polymerase Chain Reaction (PCR): A Method for Obtaining Short Tandem Repeat (STR) -Based Genotypes in Eight Minutes or Less**  
*Georgiana C. Gibson-Daw, MS\**; *Bruce R. McCord, PhD*
- 11:35 a.m. - 11:50 a.m.    **B100**    **Rapid DNA Analysis for Disaster Victim Identification**  
*Selden Richard, MD\**; *Rosemary S. Turingan, PhD*; *Eugene Tan, PhD*
- 11:50 a.m. - 12:05 p.m.    **B101**    **The Recovery of Mitochondrial and Nuclear Touch DNA From Spent Cartridge Casings**  
*Emily R. Heinz, BS\**; *David R. Foran, PhD*
- 12:05 p.m. - 1:05 p.m.    **Lunch**

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## Deliberations on Y-STR Interpretation: Present and Future

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*Moderator: Kristy Kadash, PhD  
Jefferson County Regional Crime Lab  
Golden, CO*

- 1:05 p.m. - 3:05 p.m.    **B102**    **Deliberations on Y-Chromosomal Short Tandem Repeat (Y-STR) Interpretation: Present and Future**  
*Michael D. Coble, PhD\**; *Kristy Kadash, PhD\**; *Tamyra Moretti, PhD\**;  
*Bruce S. Weir, PhD\**
- 3:05 p.m. - 3:20 p.m.    **Break**



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## Sexual Assault Processing

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Moderator: *Andrew J. Schweighardt, PhD*  
*Northport, NY*

Co-Moderator: *Teresa A. Cheromcha, MFS*  
*Colorado Bureau of Investigation*  
*Grand Junction, CO*

- 3:20 p.m. - 3:40 p.m.    **B103**    **Evaluating the Efficiency of the Use of the Qiagen® QIASymphony® With High-Throughput Y-Screening Utilizing Phosphate-Buffered Saline as an Alternative to Conventional Serology**  
*Season E. Seferyn, MSFS\*; Terry Fenger, PhD; Jason Chute, MSFS*
- 3:40 p.m. - 3:55 p.m.    **B104**    **Why Perform Y-Screening? Validation of a Novel Sperm Lysis Protocol to Improve Sexual Assault Triaging**  
*Victoria Hsieh; David R. Fisher, MS\*; Robin W. Cotton, PhD; Jeffrey A. Hickey, MS; Kirsty Mayall, MS; Orion Scott, PhD; David J. Saul, PhD; Delphine Le Roux, PhD; Jacquelyn A. DuVall, BSc; James P. Landers, PhD*
- 3:55 p.m. - 4:10 p.m.    **B105**    **Proximity Ligation Real-Time Polymerase Chain Reaction (PLiRT-PCR): A Protein-Based Confirmatory Method for Processing Sexual Assault Kit Samples for Semen and Sperm Cells**  
*Sarah Riman, PhD\*; Daniele S. Podini, PhD*
- 4:10 p.m. - 4:25 p.m.    **B106**    **Improving Seminal Fluid Detection Sensitivity in Extended Postcoital Intervals by Triple Quadrupole (QQQ) Mass Spectrometry**  
*Heather E. McKiernan, MSFS\*; Catherine O. Brown, MSFS; Cameron Logan; Phillip Danielson, PhD*
- 4:25 p.m. - 4:40 p.m.    **B107**    **Evaluating the Utility of Highly Sensitive Male Quantitative Polymerase Chain Reaction (qPCR) Targets for Simple, Low-Cost, and Rapid Screening of Sexual Assault Samples**  
*Andrew Loftus, PhD\*; Gina Murphy, MS; Jonathan S. Tabak; Anne H. Montgomery, MS; Sudhir K. Sinha, PhD*
- 4:40 p.m. - 4:55 p.m.    **B108**    **Microchip-Based Antibody-Mediated Differential Lysis of Sperm Cells**  
*Molly E. Woodson, BA\*; Kemper Gibson, BS; Jordan Cox, MS; Kimberly Jackson; James P. Landers, PhD; Tracey Dawson Cruz, PhD*
- 4:55 p.m. - 5:15 p.m.    **B109**    **We Did It! Houston's Sexual Assault Kit Backlog Elimination Story**  
*Jessica L. Powers, MA\**
- 5:15 p.m. - 5:30 p.m.    **B110**    **The Development of a Dissolvable Swab for Increased Biospecimen Recovery**  
*Blaine Butler, BS\*; Nikolai A. Braun, PhD\*; Lauren Costella, MS; Robert I. O'Brien, BS; Christopher Tison, PhD*

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## Friday — Session I

### Drug Chemistry: Part 2

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Moderator: *Theresa B. Browning, MFS*  
*Miami, FL*

Co-Moderator: *Richard David Karasiewski, JD*  
*Arlington, VA*

- 8:30 a.m. - 8:45 a.m.    **B111**    **A Comparison of Methods of Analysis for the Extraction and Identification of Drugs Using Microfluidic Mass Spectrometry (MS) From Different Substrates**  
*Emily Lichtenberger, BS\**; *Michael Roberts, BS*; *Nelson R. Vinueza, PhD*
- 8:45 a.m. - 9:00 a.m.    **B112**    **Ionization Efficiency of Drugs Using Direct Analysis in Real-Time Mass Spectrometry (DART®-MS)**  
*Yuriy Uvaydov, MS\**
- 9:00 a.m. - 9:15 a.m.    **B113**    **Rapid Screening of Emerging Novel Psychoactive Substances (NPS) Using a Portable, Ambient Sampling Mass Spectrometer (MS)**  
*Sabra R. Botch-Jones, MS, MA\**; *Zachary E. Lawton, BS*; *Alessandra Bruno, BS*;  
*David A. Barajas, BA*; *Jamie R. Wieland, PhD*; *Michael C. Gizzi, PhD*;  
*Christopher Mulligan*
- 9:15 a.m. - 9:30 a.m.    **B114**    **Optimal Headspace Extraction for the Detection of Volatile Organic Compounds (VOCs) Released From Synthetic Cathinones Using Solid-Phase Microextraction (SPME) for Field Application**  
*Vanquilla L. Shellman, BS\**; *Kenneth G. Furton, PhD*
- 9:30 a.m. - 9:45 a.m.    **B115**    **Improving Qualitative Synthetic Cathinone Identification by Gas Chromatography/Mass Spectrometry (GC/MS) Using Cold Electron Ionization (Cold-EI)**  
*Matthew P. Levitas, BS\**; *Emily Andrews, MFS*; *Ira S. Lurie, PhD*;  
*Ioan Marginean, PhD*
- 9:45 a.m. - 10:00 a.m.    **B116**    **Using Coupled Columns With Ultra High-Performance Supercritical Fluid Chromatography (UHPSFC) for the Analysis of Synthetic Cathinones**  
*Lauriane Tremreau-Cayel\**; *Ira S. Lurie, PhD*
- 10:00 a.m. - 10:15 a.m.    **B117**    **The Stability of Select Synthetic Cathinones in Non-Alcoholic Beverages**  
*Stephanie L. Oddi, BSc\**; *Karen S. Scott, PhD*
- 10:15 a.m. - 10:30 a.m.    **B118**    **Ultraviolet (UV) Spectra of Synthetic Cathinones: Resurrecting an Old Technique**  
*Walter F. Rowe, PhD\**; *Stephanie R. Carnes, BS*; *Ioan Marginean, PhD*;  
*Ira S. Lurie, PhD*
- 10:30 a.m. - 10:45 a.m.    **Break**



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## Trace Evidence and Chemical Problems: Part 1

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*Moderator: Tiffany Eckert, MS  
United States Army  
Criminal Investigation Laboratory  
Forest Park, GA*

*Co-Moderator: Philip R. Antoci, MS  
New York City Police Department  
Crime Laboratory  
Jamaica, NY*

- 10:45 a.m. - 11:00 a.m.    **B119**    **The Evolution of Forensic Household Dust Analysis Over the Past Century**  
*Nicholas Petraco, MS\*; Jack Ballantyne, PhD; Erin K. Hanson, PhD;  
Nicholas D. Petraco, PhD; Mary Eng, BS*
- 11:00 a.m. - 11:15 a.m.    **B120**    **The Probative Value of Very Small Particles (VSPs) Adhering to Common Items of Physical Evidence**  
*David A. Stoney, PhD\*; Paul L. Stoney, MBA*
- 11:15 a.m. - 11:30 a.m.    **B121**    **Using Kernel-Based Methods for Inferring the Source of Very Small Particles (VSPs) From Recovered Forensic Materials**  
*Douglas E. Armstrong, MSc\*; Cedric Neumann, PhD; Christopher P. Saunders, PhD;  
Donald T. Gantz, PhD; John J. Miller, PhD; David A. Stoney, PhD*
- 11:30 a.m. - 11:45 a.m.    **B122**    **Forensic Analysis of Trash Bags: Part I — Microscopical Discrimination of Trash Bags**  
*Deanna-Kaye D. Daley\*; Morgan M. Clothier, BS; Walter F. Rowe, PhD*
- 11:45 a.m. - 12:00 p.m.    **B123**    **Forensic Analysis of Trash Bags: Part II — Fourier Transform Infrared (FTIR) Spectroscopy and X-Ray Diffraction (XRD)**  
*Morgan M. Clothier, BS\*; Deanna-Kaye D. Daley; Walter F. Rowe, PhD*
- 12:00 p.m. - 1:00 p.m.       **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **B124**    **An Assessment of the F-108 Polymer and Capillary Electrophoresis Single-Strand Conformational Polymorphism (CE-SSCP) to Screen Human DNA Mixtures**  
*Deidra Jordan, BS\*; DeEtta Mills, PhD*
- 11:30 a.m. - 1:00 p.m.    **B125**    **An Improved Capillary Electrophoresis (CE) System for Human Identification**  
*Andrea Chow, MS; Poncho Meisenheimer, PhD; Ann MacPhetridge, MS;  
Benjamin Krenke, MS\*; Douglas R. Storts, PhD*
- 11:30 a.m. - 1:00 p.m.    **B126**    **A Comparison of Differex™ and Organic Differential DNA Extractions for the Acquisition of a Male Profile From Samples That Exhibit Mold Growth**  
*Beatriz A. Pujols\*; Lyndsie N. Ferrara, MS; Lisa R. Ludvico, PhD*



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- 11:30 a.m. - 1:00 p.m. **B127** **Effects of Swab Collection and Storage Methods on DNA and Messenger RNA (mRNA) Profiling of Forensic Stains**  
*Daniela Lacerenza, PhD; Giorgio Caudullo, MA; Samuele Voyron, PhD; Giancarlo Di Vella, MD, PhD\*; Carlo Robino*
- 11:30 a.m. - 1:00 p.m. **B128** **A Method for Optimizing Pressure-Based Extraction and Direct Polymerase Chain Reaction (PCR) of Simulated Sexual Assault Samples**  
*Meghan Roig, BS\*; Vanessa Martinez, BS; Deepthi V. Nori, PhD; Bruce R. McCord, PhD*
- 11:30 a.m. - 1:00 p.m. **B129** **The Use of Direct Polymerase Chain Reaction (PCR) on Semen and Spermatozoa and the Development of a Differential Isolation Protocol**  
*Shanan S. Tobe, PhD\*; Yuvaneswari Chandramoulee Swaran, PhD; Lynn Dennany, PhD; Ursula Sibbing, PhD; Kristina Schulze Johann, MSc; Lindsey Welch, PhD; Marielle Vennemann, PhD*
- 11:30 a.m. - 1:00 p.m. **B130** **Botanical DNA Evidence in a Case of Illegal Drug Trafficking: The Use of High-Resolution Melting (HRM) With the Internal Transcribed Spacer (ITS) Approach in the Identification of Psychedelic Fungus (*Psilocybe* sp.)**  
*Alejandra Figueroa, BSc\*; David A. Gangitano, PhD; Jaime H. Solano, PhD; Leonardo I. Anabalón*
- 11:30 a.m. - 1:00 p.m. **B131** **DNA Recovery From Waterlogged Bone: A Test of Three Methods**  
*Claire M. Cartozzo, MSFS\*; Baneshwar Singh, PhD; Edward Boone, PhD; Tal Simmons, PhD*
- 11:30 a.m. - 1:00 p.m. **B132** **Protein Profiling of Decedent Scalp Hairs to Investigate the Potential Mechanisms for the Formation of Postmortem Root Bands**  
*Joseph Donfack, PhD\*; Mehdi Moini, PhD; Traci L. Carlson, MS; Dawnie W. Steadman, PhD; Lee Meadows Jantz, PhD; Hilda S. Castillo, PhD; Nicholas R. Vercruyssse, BA; Jack Hietpas, PhD; JoAnn Buscaglia, PhD; Brian Eckenrode, PhD*
- 11:30 a.m. - 1:00 p.m. **B133** **The Effect of Using an Extra Polymerase Chain Reaction (PCR) Cycle With GlobalFiler® When Amplifying Skeletal Samples**  
*LeAnn M. Harrel, BS\*; Sheree R. Hughes-Stamm, PhD*
- 11:30 a.m. - 1:00 p.m. **B134** **Comparative Analysis of Quantity and Overall Quality of Trace DNA Evidence Collected From Substrates Found at Crime Scenes**  
*Chad C. Hogan, BS; Lora Bailey Van Houten, MS; Sulekha Coticone, PhD\**
- 11:30 a.m. - 1:00 p.m. **B135** **An Analysis of the Complex Biological Components of Touch DNA**  
*Jenny Waranauskas, BS; Levi L. Borrego; Ray Wickenheiser, MBA; Ashley Hall, PhD\**
- 11:30 a.m. - 1:00 p.m. **B136** **The Evaluation of a Hand-Held Raman Spectrometer for Field Identification of Controlled Substances**  
*Madison Veronica Roussel, BS\*; Marilyn T. Miller, EdD; Rebecca C. Nugent, MS; Adam Becne III, MNS*



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- 11:30 a.m. - 1:00 p.m. **B137** **The Evaluation of Portable Hand-Held Raman Systems for the Presumptive Identification of Narcotics**  
*Cristina S. Spicher, BSc\*; Ilene K. Alford, MS; Lauren L. Richards-Waugh, PhD; Dustin Tate Yeatman, MS*
- 11:30 a.m. - 1:00 p.m. **B138** **Seized-Drug Mass Spectral Libraries: Data Quality Control Measures**  
*William E. Wallace, PhD\*; Weihua Ji; Karen W. Phinney; Stephen Stein*
- 11:30 a.m. - 1:00 p.m. **B139** **Evaluation of a New Technology for the Collection and Analysis of Breath Components for Marijuana Detection Using Capillary Microextraction of Volatiles (CMV)**  
*D’Nisha D. Hamblin, MSFS\*; Bruce A. Benner, PhD; William A. MacCrehan, PhD; Jose R. Almirall, PhD*
- 11:30 a.m. - 1:00 p.m. **B140** **High-Throughput Analysis of Controlled Substances: Combining Multiple Injections in a Single Experimental Run (MISER) and Liquid Chromatography/Mass Spectrometry (LC/MS)**  
*Sandra E. Rodriguez-Cruz, PhD; Trevor R. Equitz, MA\**
- 11:30 a.m. - 1:00 p.m. **B141** **Using Solid Phase Extraction (SPE) to Reduce Interference in Gas Chromatography/Mass Spectrometry (GC/MS) Analysis of Fire Debris Samples**  
*Julia B. Maier, BSc\*; Thomas H. Pritchett, MS*
- 11:30 a.m. - 1:00 p.m. **B142** **Developing Quantitative Measurements and Test Materials for Fingerprint Development Reagents Using Inkjet Printing**  
*Edward Sisco, MS\*; Marcela Najarro, MFS*
- 11:30 a.m. - 1:00 p.m. **B143** **Investigating the Utility of Automated Flash Chromatography in Forensic Drug Analysis**  
*Kimberly Setien, BS\*; Kyle E. Vircks, MS; Warren C. Samms, PhD*
- 11:30 a.m. - 1:00 p.m. **B144** **The Use of Near-Infrared Spectroscopy (NIRS) and Chemometrics in Evaluating Growth Periods of Cannabis Seeds Seized and Cultivated in a Greenhouse**  
*Bruna Tassi Borille, MS; Taís Regina Fiorentin, BS\*; Rafael Scorsatto Ortiz, PhD; Kristiane de Cássia Mariotti, PhD; Marcelo Caetano Alexandre Marcelo, MS; Marco Flores Ferrão, PhD; Renata P. Limberger, PhD*
- 11:30 a.m. - 1:00 p.m. **B145** **Forensic Intelligence in Illicit Markets: The Contribution of Chemical Analysis on Counterfeit Watches**  
*Sarah Hochholdinger, MSc; Emmanuelle Erne, MSc; Michel Arnoux, MSc; Quentin Rossy, PhD; Pierre Esseiva, PhD; Olivier Delémont, PhD\**
- 11:30 a.m. - 1:00 p.m. **B146** **An Analysis of Ignitable Liquids Using Portable Ion-Trap Gas Chromatography/Mass Spectrometry (GC/MS) With Solid-Phase Microextraction (SPME) Sampling**  
*David A. Matthew, MA; Pauline E. Leary, PhD; John D. De Haan, PhD; Arlene M. McGrath\**



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- 11:30 a.m. - 1:00 p.m. **B147** **The Utilization of Controlled Odor Mimic Devices to Improve Law Enforcement Canine Training**  
*Alice Breia Boone, BSc\**; *Alison Simon, BS\**; *Vanquilla L. Shellman, BS\**;  
*Lauryn Degreeff-Silk, PhD*; *Kimberly Peranich, BS*; *Howard Holness, MBA*;  
*Kenneth G. Furton, PhD*
- 11:30 a.m. - 1:00 p.m. **B148** **An Investigation of Factors Affecting the Formation of 3D Fabric Imprint Patterns in Automotive Finishes**  
*Rachel E. Downey\**; *Zoltan Rado, PhD*; *Ralph R. Ristenbatt III, MS*;  
*Wayne Moorehead, MS*; *Ted R. Schwartz, MS*
- 11:30 a.m. - 1:00 p.m. **B149** **The Characterization and Rapid Detection of Synthetic Cannabimimetic Materials Using Ion Mobility Spectrometry (IMS) for In-Field Forensic Investigations**  
*Jasmine M. Drake, PhD\**; *CaSandra Cantue*; *Dominique Giger*; *Shastazia S. White, BS*;  
*Jessica L. Gutierrez, MS*; *Jazmyne McKenzie, MS*
- 11:30 a.m. - 1:00 p.m. **B150** **The Identification of Synthetic Cathinones Commonly Found in Designer Drugs Utilizing Liquid Chromatography/Electron Spray Ionization/Quadrupole Time-of-Flight/Mass Spectrometry (LC/ESI/q-TOF/MS) and Direct Analysis in Real-Time-Mass Spectrometry (DART®-MS)**  
*Kiana F. Nurideen, BS\**
- 11:30 a.m. - 1:00 p.m. **B151** **The Development of a Unified Gas Chromatography/Mass Spectrometry/Flame Ionization Detector (GC/MS/FID) Method to Determine Various Classes of Synthetic Drugs Using Retention Indices**  
*Sarah Howshall, BSc\**; *William Campbell, PhD*; *Jenifer Smith, PhD*;  
*Frank Dorman, PhD*
- 11:30 a.m. - 1:00 p.m. **B152** **The Analysis of the Fatty Acid Content of Fingerprint Residues Using Gas Chromatography/Mass Spectrometry (GC/MS)**  
*Ashley Cochran, BS\**; *Glen P. Jackson, PhD*
- 11:30 a.m. - 1:00 p.m. **B153** **An Elemental Characterization of Firearms Discharge Residue Using Complexing Agents and Triple Quadrupole Mass Spectrometry (QQQ MS)**  
*William Feeney, BS\**; *Sydney Brooks, BS*; *Brittany Yeager, BS*; *Suzanne Bell, PhD*
- 11:30 a.m. - 1:00 p.m. **B154** **The Analysis of Gunshot Residue and Plastic Deposits From 3D Printed Polymer Firearms**  
*Carol Crowe, BS\**; *Alex Rugh, MS\**; *Lisa Casey Yoshida, BS*
- 11:30 a.m. - 1:00 p.m. **B155** **A Study on the Persistence of Gunshot Primer Residue on Clothing Subjected to Handling**  
*Christopher P. Chany, MS\**; *Thomas R. White, BS*; *Sandy Parent, BS*; *Juan A. Rojas, BS*;  
*Lyndsi DeLaRosa, MS*
- 11:30 a.m. - 1:00 p.m. **B156** **WITHDRAWN**





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## Trace Evidence and Chemical Problems: Part 2

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*Moderator: James D. Garcia, MS  
Defense Forensic Science Center  
USACIL  
Forest Park, GA*

*Co-Moderator: Kelly M. Elkins, PhD  
Towson University  
Chemistry Department and  
Forensic Science Program  
Towson, MD*

- 1:00 p.m. - 1:15 p.m.    **B157**    **Microscopical and Ultrastructural Investigation Into Possible Chemical and/or Mechanical Degradation Mechanisms of Hair Roots Containing Induced Postmortem Root Band (PMRB) -Like Features**  
*Barbara L. Fallon, MS\*; Jack Hietpas, PhD; Joseph Donfack, PhD;  
JoAnn Buscaglia, PhD*
- 1:15 p.m. - 1:30 p.m.    **B158**    **Multivariate Classification Model Transfer of Ultraviolet (UV) /Visible Spectral Data From Acrylic Fibers Without Standards**  
*Stephen L. Morgan, PhD\*; Nathan Fuenffinger, PhD; John V. Goodpaster, PhD;  
Edward G. Bartick, PhD; Eric Jonathan Reichard, MS*
- 1:30 p.m. - 1:45 p.m.    **B159**    **Photobleaching in Cotton Fibers Dyed Using Red, Yellow, and Blue Direct Dyes During Examination With Microspectrophotometry (MSP)**  
*Amanda Forster; Sydney Brooks, BS; Julie L. Bitter, PhD\**
- 1:45 p.m. - 2:00 p.m.    **B160**    **Probing the Effects of Inherent Variability in Forensic Fiber Analysis**  
*Julie L. Bitter, PhD\*; Amanda Forster; Sydney Brooks, BS*
- 2:00 p.m. - 2:15 p.m.    **B161**    **WITHDRAWN**
- 2:15 p.m. - 2:30 p.m.    **B162**    **Evaluating the Application of Micro X-Ray Fluorescence (XRF) and Micro Raman Spectroscopy to the Analysis of Duct Tapes: Intra-Roll and Inter-Product Correlations**  
*Sergey Mamedov, PhD\**
- 2:30 p.m. - 2:45 p.m.    **B163**    **Discrimination of Soil Organic Matter Via Nuclear Magnetic Resonance (NMR) Spectroscopy Combined With Interval Extended Canonical Variate Analysis (iECVA)**  
*Victoria Hsieh; Nicholas D. Petraco, PhD; Elise Champeil, PhD\**
- 2:45 p.m. - 3:00 p.m.    **B164**    **Using Solid-Phase Microextraction-Gas Chromatography/Mass Spectrometry (SPME-GC/MS) to Detect Volatile Compounds Remaining From the Storage of Dead Mice**  
*Angelica D. Wilz, BS\*; Thomas H. Pritchett, MS*
- 3:00 p.m. - 3:15 p.m.    **Break**

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## Black Box and White Box Studies and Fingerprints

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*Moderator: Catherine R. Dunn, BS  
WA State Patrol Crime Lab  
Vancouver, WA*

*Co-Moderator: Ruth Waddell Smith, PhD  
Michigan State University  
School of Criminal Justice  
East Lansing, MI*

- 3:15 p.m. - 3:45 p.m.    **B165**    **Black Box and White Box Forensic Examiner Evaluations — Understanding the Details**  
*R. Austin Hicklin, MS\*;* *Bradford Ulery, BA;* *Maria A. Roberts\*;*  
*JoAnn Buscaglia, PhD\**
- 3:45 p.m. - 4:15 p.m.    **B166**    **The Implications of Latent Print Quality, Black Box, and White Box Studies**  
*R. Austin Hicklin, MS\*;* *Bradford Ulery, BA;* *Maria A. Roberts\*;*  
*JoAnn Buscaglia, PhD\**
- 4:15 p.m. - 4:30 p.m.    **B167**    **Toward Reform: Implementing Quantitative Methods Into Practice for Latent Print Examination**  
*Henry J. Swofford, MSFS\*;* *Anthony Koertner;* *Michael J. Salyards, PhD*
- 4:30 p.m. - 4:45 p.m.    **B168**    **A Question of Context Within Fingerprint Examinations: Decision-Making Processes, Contextual Information, and Examiners' Motivation**  
*Francisco Valente Gonçalves, MSc\**
- 4:45 p.m. - 5:00 p.m.    **B169**    **Resolving Latent Conflict: What Happens When Latent Print Examiners Enter the Cage?**  
*Alicia R. Rairden, MS\*;* *Brandon L. Garrett, JD;* *Daniel C. Murrie, PhD;*  
*Sharon Kelley, PhD;* *Amy Castillo, PhD*
- 5:00 p.m. - 5:15 p.m.    **B170**    **The Evolution of Latent Print Testimony**  
*Heidi Eldridge, MS\**

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## Criminalistics Believe It or Not!

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*Moderator: Deborah L. Merritt, MS  
Tucson Police Department Crime Laboratory  
Tucson, AZ*

*Co-Moderator: Sarah Corrigan Serou, MS  
Jefferson Parish Sheriff's Office  
Harvey, LA*

- 7:00 p.m. - 7:15 p.m.    **B171**    **Reconstruction of Decompositional Events by the Use of an Arthropod Community on a Large Number of Partially Burnt Human Mummies in the Catacombe dei Cappuccini in Palermo, Italy**  
*Mark Benecke, PhD\**
- 7:15 p.m. - 7:30 p.m.    **B172**    **DNA Recovered From a Victim's Pockets Solves a Cold Case: A Case Study**  
*Laura Stanton\*;* *Nasir A. Butt, PhD;* *Curtiss L. Jones, MS*



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- 7:30 p.m. - 7:45 p.m. **B173** **The Identification of Silk Forgeries**  
*Mehdi Moini, PhD\**; *Christopher M. Rollman, MFS*
- 7:45 p.m. - 8:00 p.m. **B174** **Lessons From Inside the Barrel: A Forensic Case Report of a Double Gunshot Suicide**  
*Eva Brencicova, MD\**; *Julia Brünig*; *Nicole Schwendener, HF*;  
*Melanie Grabmüller, MSc*; *Christian Jackowski, MD*; *Christian Schyma*
- 8:00 p.m. - 8:15 p.m. **B175** **Gunshot Residue (GSR) Identification Errors and Sample Significance**  
*Bryan R. Burnett, MS\**
- 8:15 p.m. - 8:30 p.m. **B176** **A Post-Incident Investigation of Ammonia Contamination of Food Products in a Cold Storage Facility**  
*Kelly L. Wouters, PhD\**
- 8:30 p.m. - 8:45 p.m. **B177** **The Indirect Detection of Bleach (Sodium Hypochlorite) in Bleach-Tainted Infant Eye Drops**  
*David S. Jackson, BS\**; *John B. Crowe, BS*; *Lisa A. Kaine, BS*;  
*Adam C. Lanzarotta, PhD*; *Heather A. McCauley, BS*
- 8:45 p.m. - 9:00 p.m. **B178** **What Happened to Flight MH17?**  
*Peter D. Zoon, PhD\**; *Reza R.R. Gerretsen, MD*; *Mayonne Van Wijk, MSc*;  
*Erwin Vermeij*

## *Friday — Session II*

### **DNA Testimony Past, Present, and Future**

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*Moderator: Kristy Kadash, PhD*  
*Jefferson County Regional Crime Lab*  
*Golden, CO*

- 8:30 a.m. - 10:30 a.m. **B179** **DNA Testimony in the Past, Present, and Future**  
*Kristy Kadash, PhD\**; *Christopher J. Plourd, JD\**; *Ted R. Hunt, JD\**;  
*Christine Funk, JD\**; *Andrea M. Borchardt, MS\**; *Elizabeth A. Hewitt, MFS\**;  
*Suzanna R. Ryan, MS\**; *Robin W. Cotton, PhD\**
- 10:30 a.m. - 10:45 a.m. **Break**
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## Postmortem Data

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*Moderator: Cyndi Hall, MS  
Idaho State Police Forensic Services  
Meridian, ID*

*Co-Moderator: Amy S. Lee, MFS  
San Francisco, CA*

- 10:45 a.m. - 11:05 a.m.    **B180**    **Ashes to Ashes: An Analysis of Enhanced Methods for Genetic Identification of Human Cremated Remains**  
*Kelly Grisedale, PhD\**; *Maureen Hickman, MS*
- 11:05 a.m. - 11:20 a.m.    **B181**    **The Short-Term Effects of Surface and Subsurface Burial on DNA From Human Skeletal Remains**  
*Brianna B. Bermudez, BS\**; *David R. Foran, PhD*
- 11:20 a.m. - 11:35 a.m.    **B182**    **A Specialized Workflow for Charred and Degraded Human Remains That Leads to Identifications**  
*James Anstead, PhD\**; *Kelsy Lowther, MS*; *Erica Reynaga, MS*;  
*Brandt G. Cassidy, PhD*
- 11:35 a.m. - 11:50 a.m.    **B183**    **DNA-Protein Crosslink Reversal and Mitochondrial DNA Amplification From Formaldehyde-Treated Unknowns From the Korean War**  
*Charla Marshall, PhD\**; *Jennifer L. Higginbotham, MFS*; *Cassandra R. Taylor, BS*;  
*Erin M. Gorden, MFS*; *Kimberly S. Andreaggi, MFS*; *Suzanne M. Barritt-Ross, MS*;  
*Timothy P. McMahon, PhD*
- 11:50 a.m. - 12:05 p.m.    **B184**    **The Success of DNA Testing of Skeletonized Human Remains and the Comparison of Organic vs. Inorganic Extraction Protocols**  
*Suni M. Edson, MS\**; *Stephanie R. Ah Sam, MS*
- 12:05 p.m. - 1:05 p.m.    **Lunch**

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## Mixtures and Statistics

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*Moderator: Sarah J. Seashols Williams, PhD  
Virginia Commonwealth University  
Dept of Forensic Science  
Richmond, VA*

*Co-Moderator: Rhonda R. Carter, BS  
Illinois State Police  
Springfield, IL*

- 1:05 p.m. - 1:25 p.m.    **B185**    **A Comparison of the Deconvolution and Likelihood Ratios (LRs) Produced Using a Continuous Probabilistic Software From Low-Level Samples When Amplifying the Entire Extract or Splitting the Extract**  
*Todd W. Bille, MS*; *Michael D. Coble, PhD\**



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- 1:25 p.m. - 1:40 p.m.    **B186**    **The Application of Short Tandem Repeat (STR) Sequence Variation for the Selection of Novel STR Markers to Enhance DNA Mixture Deconvolution: What Do We Know and Where Are We Headed?**  
*Nicole M. Novroski, MS\**; *Jennifer D. Churchill, PhD*; *Jonathan King, MS*;  
*Bruce Budowle, PhD*
- 1:40 p.m. - 1:55 p.m.    **B187**    **Validation of Probabilistic Genotyping Software for Use in Forensic DNA Casework**  
*Hinda Haned, PhD*; *Peter Gill*; *Kirk Lohmueller, PhD*; *Keith Inman, MS*;  
*Norah Rudin, PhD\**
- 1:55 p.m. - 2:10 p.m.    **B188**    **Assigning the Number of Mixture Contributors: A Fool's Errand**  
*Charles H. Brenner, PhD\**
- 2:10 p.m. - 2:25 p.m.    **B189**    **The Use of Microhaplotypes in the Analysis and Deconvolution of Mixed DNA Samples**  
*Lindsay D. Bennett\**; *Kelly E. Long, BSc*; *Rebecca Walter, BS*;  
*Sharon C. Wootton, PhD*; *Chien-Wei Chang, PhD*; *Robert Lagace, BS*;  
*Kenneth Kidd, PhD*; *Daniele S. Podini, PhD*
- 2:25 p.m. - 2:40 p.m.    **B190**    **An Error in the Likelihood Ratio: The False Match Probability (FMP)**  
*Mark W. Perlin, PhD, MD\**
- 2:40 p.m. - 3:00 p.m.    **B191**    **Out of the "Frye" Pan and Into the Fire: KISS Your Judge and Defend Your Probabilistic Genotyping (PG) Software in Court**  
*Melissa Mourges, JD\**; *Martha Bashford, JD\**
- 3:00 p.m. - 3:15 p.m.                       **Break**

## Next Generation Sequencing Methods and Data

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*Moderator: Matthew J. Gamette, MS*  
*Idaho State Police Forensic Services*  
*Meridian, ID*

*Co-Moderator: Lisa L. Grossweiler, MS*  
*Quantico, VA*

- 3:15 p.m. - 3:35 p.m.    **B192**    **United States Population Sequence Data for 27 Autosomal Short Tandem Repeat (STR) Loci, 24 Y-Chromosomal Short Tandem Repeat (Y-STR) Loci, and 7 X-Chromosomal Short Tandem Repeat (X-STR) Loci**  
*Katherine B. Gettings, PhD\**; *Kevin Kiesler, MS*; *Becky Steffen, MS*; *Lisa Borsuk, MS*;  
*Peter M. Vallone, PhD*
- 3:35 p.m. - 3:50 p.m.    **B193**    **An Evaluation of the Discriminatory Power, Ancestry Prediction, and Practical Considerations of the ForenSeq™ DNA Signature Prep Kit Against Traditional Short Tandem Repeat-Capillary Electrophoresis (STR-CE) Methods**  
*Rebecca Walter, BS\**; *Michelle A. Peck, MFS*; *Kimberly S. Andreaggi, MFS*;  
*Daniele S. Podini, PhD*; *Charla Marshall, PhD*

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- 3:50 p.m. - 4:05 p.m. **B194** **An Evaluation of the ForenSeq™ System for Sequence-Based Y-Chromosome and Autosomal Short Tandem Repeat (STR) Typing**  
*Rebecca Just, PhD; Lilliana I. Moreno, PhD; Jill Smerick, MS; Jodi A. Irwin, PhD\**
- 4:05 p.m. - 4:20 p.m. **B195** **Forensic Analysis of the Entire Mitochondrial Genome on Ion Torrent™ Massively Parallel Sequencing (MPS) Platforms**  
*Jennifer D. Churchill, PhD\*; Jonathan King, MS; Bruce Budowle, PhD*
- 4:20 p.m. - 4:35 p.m. **B196** **An Analysis of Highly Degraded DNA From Bone Samples Using Probe Capture Enrichment of the Entire Mitochondrial Genome and Next Generation Sequencing**  
*Cassandra R. Taylor, BS\*; Rachel M. Gordon, MS; Sarah Copeland, MS; George Sensabaugh, DCrim; Cassandra Calloway, PhD*
- 4:35 p.m. - 4:50 p.m. **B197** **The Evaluation of a Nanopore Sequencing Platform for Concordance and Reliability in Short Tandem Repeat (STR) Analyses**  
*Clare M. Diester, BS\*; Tracey Dawson Cruz, PhD; Reema Elshaer, BS; Amelia A. Bussell, MSFS; Bonnie Brown, PhD; Sarah J. Seashols Williams, PhD*
- 4:50 p.m. - 5:05 p.m. **B198** **The Development of a Nuclear Single Nucleotide Polymorphism (SNP) Probe Capture Assay for Massively Parallel Sequencing (MPS) of Degraded and Mixed DNA Samples**  
*Nikhil Bose, BS\*; Katie Carlberg, MD; George Sensabaugh, DCrim; Henry Erlich, PhD; Cassandra Calloway, PhD*

## *Saturday — Session I*

### **Developing Leadership and Management Skills**

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*Moderator: Elizabeth Ziolkowski, MS  
USPS Forensic Laboratory Services  
Dulles, VA*

*Co-Moderator: Agnes D. Winokur, MS  
DEA/Southeast Laboratory  
Miami, FL*

- 8:30 a.m. - 10:00 a.m. **B199** **Toward a Vision of a National Forensic Science Academy Specializing in Leadership and Management**  
*Barry A.J. Fisher, MS, MBA\*; John Morgan, PhD\*; Jody M. Wolf, MS\*; Martina Bison-Huckaby\**
- 10:00 a.m. - 10:15 a.m. **Break**



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## Current Affairs

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*Moderator: Steven O'Dell, MSFS, MBA  
Baltimore Police Department  
Crime Lab  
Baltimore, MD*

*Co-Moderator: Dennis C. Hilliard, MS  
RI State Crime Laboratory  
Kingston, RI*

- 10:15 a.m. - 10:30 a.m.    **B200**    **Data From the Federal Bureau of Investigation (FBI) Review of Microscopic Hair Comparison Laboratory Reports and Testimonies**  
*Cary T. Oien, MS; Marc A. LeBeau, PhD\**
- 10:30 a.m. - 10:45 a.m.    **B201**    **The Organization of Scientific Area Committees (OSAC) for Forensic Science Highlights Recent Standards and Baseline Documents for Many Disciplines**  
*John P. Jones II, MBA\**
- 10:45 a.m. - 11:00 a.m.    **B202**    **Demolishing Divides: A Discourse on the Dearth of Discipline Differences Between DNA and Dactyloscopy**  
*John M. Butler, PhD\*; Heidi Eldridge, MS\**
- 11:00 a.m. - 11:15 a.m.    **B203**    **The National Institute of Standards and Technology (NIST) Trace Evidence Data Workshop: Discussions on a Path Forward for Trace Evidence Analysis**  
*Shannan Williams, MA\**
- 11:15 a.m. - 11:30 a.m.    **B204**    **What Can We Learn From the Coverdell Grants? Data Mining the Coverdell Grants to Assess Their Impact on the Forensic Community**  
*Luther S. Schaeffer, MSc\**
- 11:30 a.m. - 11:45 a.m.    **B205**    **Polymer Replication of Cartridge Cases for Proficiency Testing and Evidence Transfer**  
*Thomas B. Renegar, BS\*; Xiaoyu A. Zheng, MS; Michael T. Stocker;  
Robert M. Thompson, BS; Theodore V. Vorburger, PhD; Junfeng J. Song, MS;  
Johannes A. Soons, PhD; James H. Yen, PhD*
- 11:45 a.m. - 12:00 p.m.    **B206**    **We're Not as Good as We Think, But We're Not as Bad as They Say: The Need for an Objective Look at the Challenges and Perceived Issues Within Forensic Sciences**  
*Vincent J. Desiderio, Jr., MS\**

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## Saturday — Session II

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### Trace DNA Samples and Improving Yields

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Moderator: *Christie W. Smith, MS*  
*Tennessee Bureau of Investigation*  
*Memphis, TN*

Co-Moderator: *James M. Robertson, PhD*  
*CFSRU*  
*FBI Laboratory*  
*Quantico, VA*

- 8:30 a.m. - 8:50 a.m.    **B207**    **The Importance of a Combined DNA Index System (CODIS) DNA Hit Follow-Up: A Case Review of Secondary DNA Transfer and the Individual Wrongfully Charged With Murder**  
*Tahnee Nelson Mehmet, MSFS\**
- 8:50 a.m. - 9:10 a.m.    **B208**    **Exploring the Relationship Between Quantitative Polymerase Chain Reaction (qPCR) and Short Tandem Repeat (STR) Data for Compromised, Low-Template DNA Samples**  
*Lauren E. Alfonse, MS\*; Amanda D. Garrett, MS; Catherine M. Grgicak, PhD*
- 9:10 a.m. - 9:30 a.m.    **B209**    **Touch DNA: “Touch” Time and Resiliency**  
*Francesco Sessa, MS\*; Benedetta Tomaiuolo, BS; Stefania C. Bello, MD; Irene Riezzo, MD, PhD*
- 9:30 a.m. - 9:45 a.m.    **B210**    **Increasing DNA Recovery With Nylon Flock Swabs and One-Step Spin Baskets**  
*Angela Ambers, MA; Rachel E. Wiley, MFS; Nicole M. Novroski, MS; Bruce Budowle, PhD\**
- 9:45 a.m. - 10:00 a.m.    **B211**    **Alternative Reducing Agents for DNA Extraction**  
*Megan E. Grimes, MFS\*; Mark F. Kavlick, MPhil*
- 10:00 a.m. - 10:15 a.m.    **Break**

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### Quality and Policy Topics

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Moderator: *Uyen N. Henson, MS*  
*Garland, TX*

- 10:15 a.m. - 10:45 a.m.    **B212**    **An Analysis of an Internal Validation Dataset for the New Core Short Tandem Repeat (STR) Loci**  
*Sarah Riman, PhD\*; Erica L. Romsos, MFS; Peter M. Vallone, PhD*
- 10:45 a.m. - 11:00 a.m.    **B213**    **A Survey on Serological and DNA Typing Methods in United States Forensic Laboratories**  
*Jeannie Do, BS\*; Daniele S. Podini, PhD*





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- 11:00 a.m. - 11:20 a.m.    **B214**    **The PROVEDIt Initiative: The Development and Release of a Collection of Computational Tools and a Large-Scale Empirical Data Set for Forensic Research and Validation**  
*Lauren E. Alfonse, MS; Amanda D. Garrett, MS; Harish Swaminathan, PhD;  
Kelsey C. Peters, BS; Genevieve Wellner, MS; Lauren M. Taranow, BA;  
Jennifer L. Sheehan, BS; Sarah E. Norsworthy, BA; Desmond S. Lun, PhD;  
Ken Duffy, PhD; Muriel Medard, ScD; Robin W. Cotton, PhD;  
Catherine M. Grgicak, PhD\**
- 11:20 a.m. - 11:40 a.m.    **B215**    **The Development of the National Institute of Standards and Technology (NIST) Standard Reference Material (SRM) 2391d: The Next Iteration of the Polymerase Chain Reaction (PCR) -Based DNA Profiling Standard**  
*Becky Steffen, MS\*; Margaret C. Kline, MS; David L. Duewer, PhD;  
Michael D. Coble, PhD; Peter M. Vallone, PhD*

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## Wednesday

### Poster Session

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- 11:30 a.m. - 1:00 p.m.    **C1**    **The Development and Preliminary Application of the New “ForensicSW” Software for Image Analysis**  
*Kim Younsu, PhD\**; *Jin Young Lee*
- 11:30 a.m. - 1:00 p.m.    **C2**    **An Analysis of a Photocopier Hard Drive for Forensically Relevant Artifacts**  
*Trevor Bobka, BS\**; *Ian Levstein, MS*; *Nevin Westurn, BSc*; *Terry Fenger, PhD*

## Thursday

### Multimedia Forensics 1

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*Moderator: Spencer Ledesma, MS  
Cypress, TX*

*Co-Moderator: Alex J. Nelson, PhD  
Gaithersburg, MD*

- 8:30 a.m. - 8:55 a.m.    **C3**    **A Text-Independent, Automatic Speaker Recognition System Evaluation With Males Speaking Both Arabic and English**  
*Safi S. Alamri, MS\**
- 8:55 a.m. - 9:20 a.m.    **C4**    **Closing the Performance Gap in Forensic Speaker Recognition**  
*Reva Schwartz, MA\**
- 9:20 a.m. - 9:45 a.m.    **C5**    **“HAND-ling” Daubert: A Photographic Comparison Case Study**  
*Christina A. Malone, MFS\**; *Carl R. Krügel, MA*
- 9:45 a.m. - 10:10 a.m.    **C6**    **Tool Testing and Comparison: Recovery of Snapchat™ Pictures From Mobile Device Unallocated Space**  
*Joseph Levi White, MS\**
- 10:10 a.m. - 10:25 a.m.    **Break**



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# DIGITAL & MULTIMEDIA SCIENCES

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## Multimedia Forensics 2

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*Moderator: Christina A. Malone, MFS  
Atlanta, GA*

*Co-Moderator: Gregory S. Wales, MSc  
U.S. Department of Interior, OIG  
Computer Crimes Unit  
Digital Forensic Lab  
Lakewood, CO*

- 10:25 a.m. - 10:50 a.m.    **C7**    **Forensic Image and Video Enhancement: Methodology for Improved Efficacy and Error Mitigation**  
*Spencer Ledesma, MS\**
- 10:50 a.m. - 11:15 a.m.    **C8**    **Structure and Format Analysis of Lossy Compressed Audio Files**  
*Catalin Grigoras, PhD\*; Jeff M. Smith, MS*
- 11:15 a.m. - 11:40 a.m.    **C9**    **Media Forensics and Microphones**  
*Eddy B. Brixen, BA\**
- 11:40 a.m. - 12:05 p.m.    **C10**    **An Analysis of Apple® iOS® Version Effects on Format and Metadata Structure of Audio Files Recorded Using the Native “Voice Memos” App**  
*Jeff M. Smith, MS\*; Douglas S. Lacey, BS\*; Catalin Grigoras, PhD;  
Bruce E. Koenig, MFS*
- 12:05 p.m. - 1:25 p.m.    **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **C11**    **An Analysis of Digital Forensic Units**  
*Kaitlyn Gurule, BS\*; Kathryn C. Seigfried-Spellar, PhD\*; Marcus Rogers, PhD*

## Multimedia Forensics 3

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*Moderator: Jason Lewis, PhD  
University of the Virgin Islands  
Department of Computer & Computational Sciences  
St. Thomas, VI*

*Co-Moderator: Breck Christopher McDaniel, MS  
Cellular Evidence Services, LLC  
Houston, TX*

- 1:25 p.m. - 1:50 p.m.    **C12**    **Image Correction and Enhancement With the Apparatus for Actual Measurement of Image Degradation Properties in Security Cameras**  
*Kenji Kurosawa\*; Ken'ichi Tsuchiya, PhD; Norimitsu Akiba, PhD; Kenro Kuroki, PhD;  
Daisuke Imoto, MS; Hidetoshi Kakuda, PhD; Manato Hirabayashi, MS*

# DIGITAL & MULTIMEDIA SCIENCES



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- 1:50 p.m. - 2:15 p.m. **C13** **Automatic Removal of Face Features in Video for Purposes of Visual Anonymity Using Statistical Learning and Meaningful Face Color Detection**  
*Leonid I. Rudin, PhD\**
- 2:15 p.m. - 2:40 p.m. **C14** **Open Source Automatic Facial Comparison Algorithms' Potential Application in Forensics**  
*Angeliki Fydanaki, MFS\*; Zeno J. Geradts, PhD\**
- 2:40 p.m. - 3:05 p.m. **C15** **Accurate Video Reconstruction and Metadata Extraction From a Self-Executing Video File**  
*Matthew Case, PhD\**
- 3:05 p.m. - 3:25 p.m. **Break**

## Digital Forensics 1

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*Moderator: Joseph Levi White, MS*  
*U.S. Army Criminal Investigation Laboratory*  
*Digital Evidence-CFI*  
*Forest Park, GA*

*Co-Moderator: Jonathan Ystad, MPS*  
*Brooklyn, NY*

- 3:25 p.m. - 3:50 p.m. **C16** **Pokémon™ GO® Forensic Artifacts: An Exploratory Study**  
*Joseph Levi White, MS\*; Carl R. Kriigel, MA\*; Julie Robyn Constantine, MS*
- 3:50 p.m. - 4:15 p.m. **C17** **Digital Stratigraphy: Analyzing File Allocation Methods to Uncover Concealment Behavior**  
*Eoghan Casey, PhD\**
- 4:15 p.m. - 4:40 p.m. **C18** **Paired Apple® Watch® Forensics**  
*Yoshitaka Takase, MS\**
- 4:40 p.m. - 5:05 p.m. **C19** **Experience Validating Disk-Imaging Tools With Computer Forensic Tool Testing (CFTT) Federated Testing**  
*James R. Lyle, PhD\*; Barbara Guttman, BA; Benjamin R. Livelsberger, MS*



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# DIGITAL & MULTIMEDIA SCIENCES

## Friday

### Digital Forensics 2

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*Moderator: Patrick A. Eller, MS  
U.S. Army Criminal Investigation Command  
Quantico, VA*

*Co-Moderator: J. Roger Schermerhorn, MS  
Missouri City, TX*

- 8:30 a.m. - 8:55 a.m. **C20** **An Anatomy of a Knockoff**  
*Mark D. Guido, MS\*; Justin Grover, MS\*; Eric Katz, MS; Kyle Anthony, MS*
- 8:55 a.m. - 9:20 a.m. **C21** **A Forensic Investigation of Drones**  
*Niels ter Bork, BS; Zeno J. Geradts, PhD\**
- 9:20 a.m. - 9:45 a.m. **C22** **Joint Task Action Group (JTAG) Phone Forensics**  
*William Charles Easttom II, MBA\**
- 9:45 a.m. - 10:10 a.m. **C23** **Joint Task Action Group (JTAG) Data Extraction and Analysis**  
*Jenise Reyes-Rodriguez, BS\*; Richard Ayers, MS*
- 10:10 a.m. - 10:25 a.m. **Break**

### Digital Forensics 3

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*Moderator: Irfan Ahmed, PhD  
University of New Orleans  
New Orleans, LA*

*Co-Moderator: William E. Folsom, MS  
York Digital Forensics Laboratory  
York, PA*

- 10:25 a.m. - 10:50 a.m. **C24** **Personality Characteristics of Computer Hackers: A Systematic Review and Meta-Analysis**  
*Marcus Rogers, PhD\*; Kathryn C. Seigfried-Spellar, PhD\**
- 10:50 a.m. - 11:15 a.m. **C25** **Detecting Causality Through Fine-Grain Logging in Digital Investigations**  
*Golden G. Richard III, PhD; Aisha Ali-Gombe, MS\**
- 11:15 a.m. - 11:40 a.m. **C26** **Supervisory Control and Data Acquisition (SCADA) Forensics: Network Traffic Analysis for Extracting a Programmable Logic Controller (PLC) System and Programming Logic Files**  
*Irfan Ahmed, PhD\**
- 11:40 a.m. - 12:05 p.m. **C27** **Assessing the Psychological Well-Being and Coping Mechanisms for Law Enforcement Investigators and Digital Forensic Examiners of Child Pornography Investigations**  
*Kathryn C. Seigfried-Spellar, PhD\**
- 12:05 p.m. - 1:25 p.m. **Lunch**

# DIGITAL & MULTIMEDIA SCIENCES



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## Poster Session

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- 11:30 a.m. - 1:00 p.m. **C28** **A 3D Study of Facial Mimicry: A New Approach for the Identification of Missing Children**  
*Niccolò Barla, MD; Serena Maria Curti, MD\*; Guglielmo Ramieri, MD; Giancarlo Di Vella, MD, PhD; Laura Verzé, MD*
- 11:30 a.m. - 1:00 p.m. **C29** **Behavioral Forensic Analysis, Biometrics, and Social Media — A New Investigative Tool**  
*Paola Giannetakis, PhD\*; Walter Quattrocioni, PhD\*; Vinicio Pelino, MS\*; Luigi Saravo, PhD\**

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## Digital Forensics 4

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*Moderator: John J. O'Brien, MA  
Pennsylvania Office of Attorney General  
Computer Forensics Unit  
North Huntingdon, PA*

*Co-Moderator: Kathryn C. Seigfried-Spellar, PhD  
Purdue University  
Computer and Information Technology  
West Lafayette, IN*

- 1:25 p.m. - 1:50 p.m. **C30** **Advances in Automated Content Carving**  
*Michael Haaf, MS; Eric Shirk, BS; Chris Poldevaart, BS; Eoghan Casey, PhD\*; Joseph Lewthwaite, BS*
- 1:50 p.m. - 2:15 p.m. **C31** **Challenges in Determining End-User Actions Based on Cloud Repository Metadata**  
*Darcie Lynn Winkler, MSFS\**
- 2:15 p.m. - 2:40 p.m. **C32** **The Acquisition and Analysis of Evidence From Cloud and Internet of Things (IoT) Services**  
*Vassil Roussev, PhD\**
- 2:40 p.m. - 3:05 p.m. **C33** **Representing and Exchanging Cyber-Investigation Information in a Standard Format**  
*Sean Barnum, BS; Eoghan Casey, PhD\*; Ryan Griffith, BS; Jonathan Snyder, BS*
- 3:05 p.m. - 3:30 p.m. **C34** **Vehicle Forensics: A Tale of Two Cars**  
*Celia Whelan; John E. Sammons, MS\*; Brian K. McManus, BS; Terry Fenger, PhD*



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# ENGINEERING SCIENCES

## Wednesday

### Poster Session

- 11:30 a.m. - 1:00 p.m. **D1** **Can Gait Recognition Using Coupled Non-Linear Oscillators Overcome Intra-Individual Variability?**  
*Daisuke Imoto, MS\**; *Kenji Kurosawa*; *Ken'ichi Tsuchiya, PhD*; *Kenro Kuroki, PhD*;  
*Norimitsu Akiba, PhD*; *Hidetoshi Kakuda, PhD*; *Manato Hirabayashi, MS*
- 11:30 a.m. - 1:00 p.m. **D2** **A Forensic Analysis of Flora Damage Caused by an Environmental Disaster at Mariana, Brazil**  
*Carlos Alberto Trindade\**
- 11:30 a.m. - 1:00 p.m. **D3** **An Environmental Forensic Analysis at the Doce River Estuary: A Tool for Damage Assessment in a Major Tailings Dam Break in Brazil**  
*Alexandre Klotz, MD\**; *Leonardo Resende, BA*; *Daniel Domingues, MD*;  
*Rodrigo Mayrink, MA*; *Luiza Teixeira, BA*

## Thursday

### Low Price or High Performance?

*Moderator: David Pienkowski, PhD*  
*AB Chandler Hospital*  
*University of Kentucky*  
*Lexington, KY*

*Co-Moderator: Michelle R. Hoffman, MS*  
*Forensic Injury Analysis, LLC*  
*Tempe, AZ*

- 8:30 a.m. - 8:40 a.m. **D4** **Low Price or High Performance?**  
*David Pienkowski, PhD\**
- 8:40 a.m. - 9:30 a.m. **D5** **Vehicle Fuel Systems: Low Performance at a High Cost to Motorists**  
*Mark C. Pozzi, MS\**; *Kenneth J. Saczalski, PhD\**
- 9:30 a.m. - 9:45 a.m. **D6** **Richard III — Finding a King: High Performance and Low Cost**  
*Sarah V. Hainsworth, PhD\**; *Kevin Schurer, PhD*
- 9:45 a.m. - 10:35 a.m. **D7** **A Comparison of Modern Youth Football Helmet Design Impact Attenuating Performance With Measurements Made in 1992 for the Helmet Design of a Fatally Injured High School Player**  
*Kenneth J. Saczalski, PhD\**; *Mark C. Pozzi, MS\**; *Todd Saczalski, BSMET*;  
*Joseph L. Burton, MD*; *Mark N. West, BS*

# ENGINEERING SCIENCES



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- 10:35 a.m. - 11:05 a.m.      **Discussion**  
*David Pienkowski, PhD\**; *Mark C. Pozzi, MS\**; *Kenneth J. Saczalski, PhD\**;  
*Sarah V. Hainsworth, PhD\**
- 11:05 a.m. - 11:15 a.m.      **Break**

## Vision, Visibility, and Human Injury

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*Moderator: David Pienkowski, PhD*  
*AB Chandler Hospital*  
*University of Kentucky*  
*Lexington, KY*

*Co-Moderator: Kurt D. Weiss, MS*  
*Automotive Safety Research*  
*Santa Barbara, CA*

- 11:15 a.m. - 11:30 a.m.      **D8**      **Visibility and Lighting Aspects of Perceiving a Liquid Slip Hazard on a Walkway Surface: A Case Study**  
*James B. Hyzer, PhD\**
- 11:30 a.m. - 11:45 a.m.      **D9**      **A Forensic Engineering Review of Vision in Automobile Crashes: Part I**  
*Adam Aleksander, PhD\**
- 11:45 a.m. - 12:00 p.m.      **D10**      **A Forensic Engineering Review of Vision in Automobile Crashes: Part II**  
*Adam Aleksander, PhD\**
- 12:00 p.m. - 1:00 p.m.      **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m.      **D11**      **A Computer Simulation for Use in Impact Force Evaluations: Studies on the Correlation Between Impact Force and Finger Bone Fracture**  
*Momoko Watanabe\**; *Yasumi Ito, PhD*; *Yoshiyuki Kagiya, PhD*; *Tatsuya Fukuoka*;  
*Shohei Daimaru*; *Tetsuya Nemoto, PhD*
- 11:30 a.m. - 1:00 p.m.      **D12**      **Basic Research on the Development of Crash Dummy Skin for Risk Evaluation of Fracture and Skin Injury**  
*Yasuhiro Nishio\**; *Yasumi Ito, PhD*; *Ryotaro Kishida*; *Shohei Daimaru*;  
*Yoshiyuki Kagiya, PhD*; *Tatsuya Fukuoka*; *Tetsuya Nemoto, PhD*
- 11:30 a.m. - 1:00 p.m.      **D13**      **Multivariate Analysis Applied to Sawed-Off Shotgun Pellet Dispersion**  
*Diva Carcamo, BS*; *Erica Sepulveda, BS*; *Cristian F. Lizama, BS\**;  
*Alejandra Figueroa, BSc*; *Ramiro Diaz*
- 11:30 a.m. - 1:00 p.m.      **D14**      **Wildlife Forensic Examinations in the Largest Dam Collapse in the History of World Mining**  
*Rodrigo Mayrink, MA\**; *Daniel Domingues, MD*; *Ana Luiza Queiroz, BA*;  
*Marcus Vinicius de Oliveira Andrade, MSc*; *Marcela Nishimoto, BA*





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# ENGINEERING SCIENCES

## Data Integrity in Forensic Science and Engineering

*Moderator: David Pienkowski, PhD  
AB Chandler Hospital  
University of Kentucky  
Lexington, KY*

*Co-Moderator: John Nixon, CEng, MBA  
ARC  
Bippus, IN*

- 1:00 p.m. - 1:10 p.m.    **D15**    **Data Integrity in Forensic Science and Engineering**  
*David Pienkowski, PhD\**
- 1:10 p.m. - 1:55 p.m.    **D16**    **The Deaths of Children in Moderate-Speed, Rear-End Impacts — Are They Unfortunate Accidents or Manslaughter? Discussions on the Ethical and Moral Obligations of Manufacturers and the Government to the Consumer**  
*Mark C. Pozzi, MS\*; Kenneth J. Saczalski, PhD\*; Todd Saczalski, BSMET*
- 1:55 p.m. - 2:10 p.m.    **D17**    **Data Integrity in Forensic Engineering — Spoliation and Loss of Evidence**  
*Helmut G. Brosz, BAsC, PEng\**
- 2:10 p.m. - 2:55 p.m.    **D18**    **Scientific Data Integrity and Engineering Ethics: Test Manipulation, Data Alteration, Elimination of Safety Regulations, and the Theft of Scientific Records**  
*Mark C. Pozzi, MS\*; Kenneth J. Saczalski, PhD\*; Todd Saczalski, BSMET*
- 2:55 p.m. - 3:05 p.m.    **D19**    **Checking Canine and Handler Credentials Entering a Crime Scene and Evidence Contamination**  
*Jen Hickok, BS\**
- 3:05 p.m. - 3:35 p.m.    **D20**    **May the Best Liar Win! Lies, Fraud, Intimidation, Deception, Bias, Error, and Incompetence at Work Within Our Courts**  
*John Nixon, CEng, MBA\**
- 3:35 p.m. - 4:05 p.m.    **Discussion**  
*David Pienkowski, PhD\*; Mark C. Pozzi, MS\*; Kenneth J. Saczalski, PhD\*; Helmut G. Brosz, BAsC, PEng\*; Jen Hickok, BS\*; John Nixon, CEng, MBA\**
- 4:05 p.m. - 4:15 p.m.    **Break**

## Forensic Linguistics

*Moderator: David Pienkowski, PhD  
AB Chandler Hospital  
University of Kentucky  
Lexington, KY*

- 4:15 p.m. - 4:45 p.m.    **D21**    **Proper (and Improper) Handling of Data and Analysis in Forensic Linguistics**  
*Carole E. Chaski, PhD\**
- 4:45 p.m. - 4:50 p.m.    **Break**

# ENGINEERING SCIENCES



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## Buildings and Forensic Investigations

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*Moderator: David Pienkowski, PhD  
AB Chandler Hospital  
University of Kentucky  
Lexington, KY*

*Co-Moderator: Harold Franck, MSEE  
Advanced Engineering Associates, Inc.  
Charleston, WV*

- 4:50 p.m. - 5:00 p.m. **D22** **Forensic Microscopy and Reverse Engineering in Asbestos-Containing Building Product Identification**  
*James Millette, PhD\**
- 5:00 p.m. - 5:15 p.m. **D23** **Why Engineers Are Named in Construction Defect Lawsuits: When Conflicts Arise Between the Building Code, Engineering Judgment, and Common Sense**  
*Michael D. McDowell, MS\**
- 5:15 p.m. - 5:30 p.m. **D24** **The Fire Marshal and Forensic Fire Investigation**  
*S.B. Addison Larson, BA\**

## Friday

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## Human Injury Analyses and Case Studies

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*Moderator: Michelle R. Hoffman, MS  
Forensic Injury Analysis, LLC  
Tempe, AZ*

*Co-Moderator: David Pienkowski, PhD  
AB Chandler Hospital  
University of Kentucky  
Lexington, KY*

- 8:30 a.m. - 8:45 a.m. **D25** **Vaginal and Colorectal Injuries From a Personal Watercraft Jet Stream Versus Falling Into the Water at Speed**  
*Michelle R. Hoffman, MS\*; Carley C. Ward, PhD*
- 8:45 a.m. - 9:00 a.m. **D26** **The Time Needed to Exit a Stationary Vehicle and the Forces Required, at Highway Speed, for a Passenger to Open a Vehicle Door Wide Enough to Exit**  
*Robert L. Anderson, MS\*; Robert D. Anderson, MS; Russell L. Anderson, MS;  
Michael Rosenfield, BS*
- 9:00 a.m. - 9:20 a.m. **D27** **Engineering Investigations of Quadriplegic Diving Accidents**  
*Laura L. Liptai, PhD\*; Jamie O. Norman, JD\*; William N. Rowley, PhD\**
- 9:20 a.m. - 9:30 a.m. **D28** **Fatal Launch: Fireworks Fatality and the Determination of Generated Recoil Force**  
*Kendall V. Crowns, MD\*; Bonnie C. Roberts, BS\*; Michelle S. Montonera, MS;  
Joseph J. Beaman, ScD*



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# ENGINEERING SCIENCES

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- 9:30 a.m. - 9:45 a.m. **D29** **Updating the Injury Reconstruction Methodology: An Exemplar Motor Vehicle Crash (MVC) Case Involving Restraint and Intrusion Issues**  
*David J. Porta, PhD\**
- 9:45 a.m. - 10:00 a.m. **D30** **Age Effects on Bending Fracture Patterns in Ovine Femora**  
*Patrick E. Vaughan, BS\**; *Feng Wei, PhD*; *Roger C. Haut, PhD*
- 10:00 a.m. - 10:15 a.m. **D31** **Electrocution Precipitated by a Flying Duck**  
*Helmut G. Brosz, BAsC, PEng\**
- 10:15 a.m. - 10:30 a.m. **Break**

## Technical Methods in Forensic Science and Engineering

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*Moderator: David Pienkowski, PhD*  
*AB Chandler Hospital*  
*University of Kentucky*  
*Lexington, KY*

- 10:30 a.m. - 10:45 a.m. **D32** **Using Finite Element Modeling to Extend Non-Contact Age Estimation of Blood Stains to Complex Blood Stain Morphologies**  
*Leah Wilk\**; *Maurice Aalders*
- 10:45 a.m. - 11:00 a.m. **D33** **3D Surface-Scanning Techniques: Current Use, Limitations, and Improvement Propositions**  
*Stella Fahrni\**; *Olivier Delémont, PhD*; *Lorenzo Campana*;  
*Fabrice Dedouit, MD, PhD*; *Silke Grabherr, PhD*
- 11:00 a.m. - 11:15 a.m. **D34** **The Use of Strava in Bicycle Collision Analysis — A Case Study**  
*Kurt D. Weiss, MS\**
- 11:15 a.m. - 11:30 a.m. **D35** **Data Integrity Issues for Micro-Computed X-Ray Tomography ( $\mu$ -CT) in Forensic Applications**  
*Sarah V. Hainsworth, PhD\**; *Guy N. Ritty, MD*
- 11:30 a.m. - 11:45 a.m. **Break**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **D36** **A Methodologies Comparison of Crimes Against the Environment in the Brazilian Amazon**  
*Harley A. Moraes, MSc\**
- 11:30 a.m. - 1:00 p.m. **D37** **Technical Guiding Elements for Forensic Analysis of Tailings Dam Breaks: A Case Study From the Brazilian Federal Police**  
*Leonardo Souza\**

# ENGINEERING SCIENCES



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## Physical Evidence, Mechanical Design, and Human Injury

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*Moderator: David Pienkowski, PhD  
AB Chandler Hospital  
University of Kentucky  
Lexington, KY*

- 11:45 a.m. - 12:00 p.m.    **D38**    **Takata Airbag Inflator Module Failure and Metal Fragment Analysis: Death Number Nine**  
*Richard S. Brown, MS\**
- 12:00 p.m. - 12:15 p.m.    **D39**    **Vehicle Interior Surface Witness Marks Observed in the Analysis of Traffic Collisions**  
*Kurt D. Weiss, MS\*; Michelle R. Hoffman, MS\**
- 12:15 p.m. - 12:30 p.m.    **D40**    **An Array of ZnO and SnO<sub>2</sub> Heterojunction Semiconducting Metal Oxide Gas Sensors Used as a Tool for Explosive Detection**  
*Lauren Horsfall, Mrs\*; Christopher S. Blackman, PhD; Ivan P. Parkin, PhD*
- 12:30 p.m. - 12:45 p.m.    **D41**    **A Discussion of Testing Methods to Understand the Interaction of Power Brake Boost and Power Steering Boost in Ford® Hydro-Boost Systems in Panic Braking Situations**  
*Michael Rosenfield, BS\*; Mark W. Arndt, BSME*



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# GENERAL

## Wednesday

### Poster Session

- 11:30 a.m. - 1:00 p.m. **E1** **Bloodstain Pattern Analysis Using 3D Laser Scanning Technology**  
*Megan L. Jackson, BS; David J. Millard, MS; Marilyn T. Miller, EdD\**
- 11:30 a.m. - 1:00 p.m. **E2** **A Combined Method of Detection for Organic and Inorganic Gunshot Residue (GSR)**  
*Lauren Gandy\*; Molly Terry; Candice Bridge, PhD*
- 11:30 a.m. - 1:00 p.m. **E3** **Automated Fingerprint Identification System (AFIS)-Based Likelihood Ratios for Latent Fingerprint Comparisons**  
*Shreya Kamath, BS\*; Keith B. Morris, PhD*
- 11:30 a.m. - 1:00 p.m. **E4** **The Use of Near Infrared Spectroscopy (NIRS) to Discriminate Wood Species and Determine Their Origins**  
*Marcelo G. Barros\*; Jez W. Braga, PhD*
- 11:30 a.m. - 1:00 p.m. **E5** **Development and Validation of an Analytical Protocol for the Characterization of Lubricant Evidence**  
*Mark Maric, PhD\**
- 11:30 a.m. - 1:00 p.m. **E6** **Distinguishing Condom Lubricants From Personal Hygiene Products (PHPs) Using Direct Analysis in Real Time-Time-of-Flight/Mass Spectrometry (DART®-TOF/MS)**  
*Yasmine Moustafa, BS\*; Candice Bridge, PhD*
- 11:30 a.m. - 1:00 p.m. **E7** **High Resolution Accurate Mass (HRAM) Liquid Chromatography/Mass Spectrometry (LC/MS) Screen for Prostaglandins Found in Consumer Products**  
*Bethany Hanson, PhD\*; Valerie M. Toomey, BS*
- 11:30 a.m. - 1:00 p.m. **E8** **Bioaffinity-Based Concepts in Forensic Serology**  
*Juliana M. Agudelo, BSc\*; Erica K. Brunelle, BSc\*; Crystal Huynh\*; Lenka Halamkova, PhD; Leif McGoldrick, BS\*; Jan Halánek, PhD\**
- 11:30 a.m. - 1:00 p.m. **E9** **Single Analyte Bioaffinity-Based Assays for Body Fluid Analysis**  
*Leif McGoldrick, BS\*; Juliana M. Agudelo, BSc\*; Erica K. Brunelle, BSc\*; Crystal Huynh\*; Lenka Halamkova, PhD; Jan Halánek, PhD\**
- 11:30 a.m. - 1:00 p.m. **E10** **A Comparison of Tenprint Examiner and Latent Print Examiner Minutiae Annotation**  
*Beth H. Sanchez, MFS\*; Ismail M. Sebetan, MD, PhD\*; Paul Stein, PhD\*; Kari Coronado, MFS\**
- 11:30 a.m. - 1:00 p.m. **E11** **Analysis Using Applied Biosystems® Quantifiler® Trio With a Y-Screening Technique at the West Virginia State Police Forensic Laboratory**  
*Marissa Bussard\*; Meredith Chambers, MSFS; Melissa Runyan, MSFS; Season E. Seferyn, MSFS; Pamela J. Staton, PhD*

# GENERAL



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- 11:30 a.m. - 1:00 p.m. **E12** **Analysis of Blood Spatter Formation on Stain-Resistant Fabrics**  
*Lauren Taddeo\**; *Lyndsie N. Ferrara, MS*
- 11:30 a.m. - 1:00 p.m. **E13** **A Retrospective Analysis of the Prevalence and Characteristics of Child Maltreatment in Southern Italy**  
*Debora De Bartolo, MD\**; *Francesco Ausania, MD*; *Ester de Luca, MD\**;  
*Santo Gratteri, MD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **E14** **Putting a Name to a Face: An Updated Methodology for the Application of Forensic Facial Reconstruction of Unidentified Skeletal Remains**  
*Katelyn Norman, BFA\**
- 11:30 a.m. - 1:00 p.m. **E15** **Initial Efforts to Create Local Libraries of Alcoholic Beverages Using Raman and Attenuated Total Reflectance/Mid-Infrared (ATR/Mid-IR) Spectroscopy**  
*Hui Tian, BS\**; *Carlos Peroza, PhD*; *Haley Gilman*
- 11:30 a.m. - 1:00 p.m. **E16** **New Suggestions and Modifications in the Extraction, Analysis, and Detection of Eight Organic Post-Explosion Traces**  
*Ahmed Mamdouh Bendary, PhD\**; *Muhamed Ismail, PhD*
- 11:30 a.m. - 1:00 p.m. **E17** **WITHDRAWN**
- 11:30 a.m. - 1:00 p.m. **E18** **Greenhouse Evaluations of Volatile Plant Defense Against an Invasive Agricultural and Environmental Biothreat Agent, *Raffaelea Lauricola*, and Possible Implications for Canine Detection**  
*Alison Simon, BS\**; *Kenneth G. Furton, PhD*

## Thursday

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*Moderator: Lara Frame-Newell, MA*  
*Office of the Chief Medical Examiner*  
*Richmond, VA*

*Co-Moderator: Ivan M. Kaminsky, MS, MEd*  
*Chandler Police Department*  
*Chandler, AZ*

- 8:30 a.m. - 8:45 a.m. **E19** **Veterinary Forensics and Large Animal Deaths**  
*Cheryl F. Nelson, DVM\**
- 8:45 a.m. - 9:00 a.m. **E20** **Characterization of Controlled Odor Mimic Permeation Systems (COMPS) Containing Live Training Aids for Utilization by Detection Canines**  
*Alison Simon, BS\**; *Kenneth G. Furton, PhD*
- 9:00 a.m. - 9:15 a.m. **E21** **Detecting Human Remains in Fatal Fires Using Cadaver Dogs**  
*Mary E. Cablk, PhD\**
- 9:15 a.m. - 9:30 a.m. **E22** **Crime Scene Videography Revisited: Combining Digital Single-Lens Reflex (DSLR) Camera's Videography Capabilities With Photography**  
*Kevin J. Parmelee, PhD\**



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- 9:30 a.m. - 9:45 a.m. **E23** **Introducing a Methodology to Process Digital Images for Investigation, Intelligence, and Evaluation Purposes: Combining Forensic and Managerial Perspectives**  
*Simon Baechler, PhD\**
- 9:45 a.m. - 10:00 a.m. **E24** **You Didn't Tell Me That! Thank You for Letting Me Know That! — The Importance of Evidence Recognition and Documentation of the Death Scene**  
*Ronald Brunelli\**
- 10:00 a.m. - 10:15 a.m. **E25** **How Thorough Medicolegal Death Scene Investigations and Autopsies Impact Public Health and Safety**  
*Margaret Warner, PhD\**; *Kelly Keyes, BS\**; *Julie A. Howe, MBA\**
- 10:15 a.m. - 10:30 a.m. **Break**
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*Moderator: Katherine M. Brown, PhD*  
*Tarleton State University*  
*School of Criminology, Criminal*  
*Justice & Strategic Studies*  
*Fort Worth, TX*

*Co-Moderator: Tracy A. Brookshire, BS*  
*Champaign County Coroner's Office*  
*Urbana, IL*

- 10:30 a.m. - 10:45 a.m. **E26** **The Transgender Consideration: The Importance of Reassessing Unidentified Human Skeletal Remains to Provide New Investigative Directions**  
*Lindsey A. Bayer, MS\**; *Barbara C. Wolf, MD*; *Michael W. Warren, PhD*
- 10:45 a.m. - 11:00 a.m. **E27** **Medicolegal Death Investigation: Staged Scenes or Setting the Scene — When Appearances Are Deceiving**  
*Erin M. Worrell, BSc\**; *Erica J. Armstrong, MD*; *Daniel A. Galita, MD*;  
*Thomas P. Gilson, MD*
- 11:00 a.m. - 11:15 a.m. **E28** **Identification of Desiccated Remains 64 Years Postmortem**  
*Bryan Johnson, MSFS\**; *Edward Mazuchowski II, MD, PhD*; *Daniel B. Lien, BS*
- 11:15 a.m. - 11:30 a.m. **E29** **The Missing Foreigner: Remains Found Eight Years Later Submerged in the Trunk of a Vehicle Full of Pluff Mud**  
*Kelly Kraus, BS\**
- 11:30 a.m. - 11:45 a.m. **E30** **Unusual Suicide: Staged Homicide in a Carbon Monoxide Setting**  
*Brittney W. Martin, BS\**
- 11:45 a.m. - 12:00 p.m. **E31** **Homicide Victims in Freezers — A Report of Two Cases**  
*Joseph A. Prahlow, MD\**
- 12:00 p.m. - 1:00 p.m. **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m. **E32** **Correlation of Bioelectric Impedance Metrics to Accumulated Degree Days Among Body Segments Using Gel Pad Electrodes**  
*Eriek S. Hansen, PhD\**; *Sophia I. Reck\**; *Melissa A. Connor, PhD*
- 11:30 a.m. - 1:00 p.m. **E33** **Patterns of Violent Death in Clark County, Nevada: Homicide and Suicide Patterns During and Post-Recession**  
*Caryn E. Tegtmeyer, MA\**; *Cheryl Anderson, MA\**
- 11:30 a.m. - 1:00 p.m. **E34** **Gunshot Residue Documentation Using 3D Laser Scanning Methodology**  
*Marilyn T. Miller, EdD\**; *David J. Millard, MS*; *Megan L. Jackson, BS*
- 11:30 a.m. - 1:00 p.m. **E35** **National Missing and Unidentified Persons System (NamUs) Database Reconciliation: “No Body” Murder Trials and Missing Persons**  
*Carraugh R. Nowak, MFS\**
- 11:30 a.m. - 1:00 p.m. **E36** **Crime Scene Investigations in Child Homicides**  
*Anna Jinghede, DDS\**; *Joakim Sturup, PhD*
- 11:30 a.m. - 1:00 p.m. **E37** **Analysis of Bullet Entry Hole Diameter by Varying Distance, Caliber, and Grain**  
*Sara Bahamondes, MFS\**; *Federico Colores*; *Benjamin A. Doody*;  
*Ismail M. Sebetan, MD, PhD\**; *Paul Stein, PhD\**
- 11:30 a.m. - 1:00 p.m. **E38** **Lack of Death Scene Investigations: The Potential Misdiagnosis of Sudden Infant Death Syndrome (SIDS) and Accidental Asphyxiation in Stockholm, Sweden**  
*Louise R. Steinhoff, MBBS\**; *Petra Råsten-Almqvist, PhD*; *Per Möllborg, PhD*
- 11:30 a.m. - 1:00 p.m. **E39** **Gunshot Residue (GSR) Analysis by Single Particle Inductively Coupled Plasma Mass Spectrometry (spICP/MS)**  
*Rodrigo D. Heringer, PhD\**; *James F. Ranville, PhD*
- 11:30 a.m. - 1:00 p.m. **E40** **“Digital Stringing” — The Practicality and Legitimacy of Determining the Area of Origin (AO) of an Impact Event From 3D Scans Recorded Via Structured Light Scanning**  
*Kent M. Adamson, MSc\**; *Paul Norris*; *Tim Thompson, PhD*; *Meez Islam, PhD*
- 11:30 a.m. - 1:00 p.m. **E41** **Estimation of Time Since Death Using Body Cooling Models of Pigs: A Pilot Study**  
*Dae-Kyoon Park, MD, PhD\**; *U-Young Lee, MD, PhD*; *Duk-Soo Kim, PhD*;  
*Cheolho Hyun*; *Kyeongyang Sim*; *Taehwa Song*; *Na Jin Kim*
- 11:30 a.m. - 1:00 p.m. **E42** **Preservation of Hair Stable Isotope Signatures During Freezing**  
*Gwyneth W. Gordon, PhD\**; *Tiffany B. Saul, MS*; *Dawnie W. Steadman, PhD*;  
*Kelly Knudson, PhD*; *Daniel J. Wescott, PhD*





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- 11:30 a.m. - 1:00 p.m. **E43** **An Examination of the Effects of *Salvia Divinorum* Fortification on Stable Isotope Ratios**  
*David A. Barajas, BA\**; *Todd E. Dawson, PhD*; *Robert Michener, MS*;  
*Sabra R. Botch-Jones, MS, MA*
- 11:30 a.m. - 1:00 p.m. **E44** **A Rare Case of Fatal Anaphylactic Reaction Following the Application of Gadobutrol, a Gadolinium-Based Contrast Agent, for Contrast-Enhanced Magnetic Resonance Imaging (MRI)**  
*Sabine Franckenberg, MD\**; *Florian Berger, MD*; *Sarah Schaeerli*;  
*Garyfalia Ampanozi, MD*; *Michael Thali, MD*
- 11:30 a.m. - 1:00 p.m. **E45** **Evaluating Violent Crime Trends of Five Ohio Cities to Enhance Law Enforcement's Understanding of the Communities They Serve**  
*Kristen A. James\**; *Todd D. Werth*; *Season E. Seferyn, MSFS*; *Terry Fenger, PhD*
- 11:30 a.m. - 1:00 p.m. **E46** **The Physiologic Effects of a TASER® Conducted Electrical Weapon (CEW) as a Function of Probe Spread**  
*Jeffrey D. Ho, MD*; *Donald M. Dawes, MD\**
- 11:30 a.m. - 1:00 p.m. **E47** **A Fatal Dive**  
*Furio Martino Patete\**; *Carmela Fiore, MD*; *Elisabetta Bertol*; *Sara Vita, MD*;  
*Cristoforo Pomara, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **E48** **A Rare Case of a Late and Incidental Finding of Hemimegalencephaly**  
*Anne-Claire Lhoumeau, MD\**; *Emmanuelle Bonneil, MD*; *Elodie Sausseureau, PharmD*;  
*Bernard Proust, PhD*; *Annie Laquerrière, PhD*; *Gilles Tournel, PhD*
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*Moderator: Ryan P. Brokaw, MFS*  
*United States Army CID*  
*Fort Benning, GA*

*Co-Moderator: Matthew G. Manns, MS*  
*United States Army CID*  
*Fort Campbell, KY*

- 1:00 p.m. - 1:15 p.m. **E49** **Forensic Archaeology, Ritual Crime, and Ethics: Assisting Law Enforcement While Maintaining Confidentiality as an Anthropologist**  
*Sharon K. Moses, PhD\**
- 1:15 p.m. - 1:30 p.m. **E50** **Differential Taphonomic Effects in a Recently Discovered World War II Cemetery**  
*Kristen N. Baker, MA\**; *Hillary R. Parsons, PhD\**
- 1:30 p.m. - 1:45 p.m. **E51** **Successful Planning for a Multidisciplinary Approach to Human Remains Recovery and Analysis in a Cold Case Homicide**  
*Zachary R. Lysek, BA\**; *Thomas A. Crist, PhD\**; *Dennis P. Asen, DDS*
- 1:45 p.m. - 2:00 p.m. **E52** **A Death Investigator's Perspective: Lessons Learned in Response to the Crash of Flight 3407**  
*Carraugh R. Nowak, MFS\**

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- 2:00 p.m. - 2:15 p.m. **E53** **Interpersonal Violence (IPV) — The Disaster After the Disaster**  
*David A. Williams, DDS\**; *Joyce P. Williams, DNP\**
- 2:15 p.m. - 2:30 p.m. **E54** **An Analysis of Forensic Scientists' Job Stress and Satisfaction**  
*David R. Foran, PhD\**; *Kristie Blevins, PhD*; *Ruth Waddell Smith, PhD*
- 2:30 p.m. - 2:45 p.m. **E55** **Identification of Originator Attributes From Fingerprints Via Chemical Assays**  
*Erica K. Brunelle, BSc\**; *Crystal Huynh\**; *Anh M. Le, BSc*; *Lenka Halamkova, PhD*;  
*Juliana M. Agudelo, BSc\**; *Leif McGoldrick, BS\**; *Jan Halámek, PhD\**
- 2:45 p.m. - 3:00 p.m. **Break**
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*Moderator: Julie L. Valentine, PhD*  
*Brigham Young University*  
*Provo, UT*

*Co-Moderator: Angel L. Miles, MA*  
*United States Army CID*  
*Manassas, VA*

- 3:00 p.m. - 3:15 p.m. **E56** **Death Scene Investigation: Limitations and Potentials of a Logical Investigative Process**  
*Luca Massaro, MD\**; *Patrizia Trapella, JD, MA\**; *Matteo Borrini, PhD\**
- 3:15 p.m. - 3:30 p.m. **E57** **Morphometrics of the Aging Process of Latent Fingerprints**  
*Josep De Alcaraz-Fossoul, PhD\**; *Carme Barrot, PhD*; *Cristina Mestres, BSc*;  
*Antoni Balaciart Muntaner, BSc*; *Manel Gené, PhD*; *Clara Carreras Marin, MSc*;  
*Jack Tasker, BSc*; *Katherine A. Roberts, PhD*; *Sara C. Zapico, PhD*;  
*Luke McGarr, BSc*; *Karen Stow, MSc*
- 3:30 p.m. - 3:45 p.m. **E58** **A Follow-Up Study: Recovery of “Touch” DNA From Selected Firearms Using the Single 4N6FLOQSwabs™ Method**  
*Maher Nouredine, PhD\**; *James A. Bailey, PhD*
- 3:45 p.m. - 4:00 p.m. **E59** **Fentanyl Analogue Despropionylfentanyl Deaths Invade Virginia**  
*Lara Frame-Newell, MA\**; *Bridget M. Kinnier, BS*; *Kathrin Hobron, MS*
- 4:00 p.m. - 4:15 p.m. **E60** **Forensic Investigation in Suspected Cases of Infanticide — Two Case Reports in Portugal**  
*João Manata, MSc\**; *Susana Pereira Tavares, MA*; *Jerónimo F. Silva*;  
*Rosa H. Gouveia, PhD*; *Claudia Marques, MD*; *Joao E.S. Pinheiro, PhD, MD*
- 4:15 p.m. - 4:30 p.m. **E61** **A Unique Medicolegal Investigation Following a Suicidal Gunshot Wound of the Head**  
*Brett E. Harding, MBA\**; *Barbara C. Wolf, MD*; *Kyle Shaw, MBBS*
- 4:30 p.m. - 4:45 p.m. **E62** **Those in Their Current Role the Longest Are Less Likely to Report Hindrance in the Use of Joint Investigations Practices: Data From the 2013-2015 CDC/FBI Joint Criminal-Epidemiological Investigations Workshop Course Evaluations**  
*Geroncio C. Fajardo, MD\**; *Stephen Papagiotas, MS*; *Molly Rickard, MS*



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4:45 p.m. - 5:00 p.m. **E63** **Navigating Toward a Blind Proficiency Testing and Verification Program**  
*Michal L. Pierce, MS\**

## *Friday — Session I*

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*Moderator: Charlotte A. Carter, MS  
City & County of Honolulu  
Dept of the Medical Examiner  
Honolulu, HI*

*Co-Moderator: Crystal L. Wagoner, MFS  
Clarksville, TN*

8:30 a.m. - 8:45 a.m. **E64** **Understanding Violence Against Law Enforcement by Youth Street Gangs**  
*Cliff Akiyama, MPH, MA\**

8:45 a.m. - 9:00 a.m. **E65** **Homicide in a Horse Barn**  
*Samuel Prahlow\*; Joseph A. Prahlow, MD*

9:00 a.m. - 9:15 a.m. **E66** **Markers for Genuine and Fake Suicide Notes**  
*Zachary R. Lysek, BA\*; Katherine Ramsland, PhD\**

9:15 a.m. - 9:30 a.m. **E67** **Investigation of a Mummification-Type Bondage Death**  
*Kim Fallon, BS\*; Thomas A. Andrew, MD*

9:30 a.m. - 9:45 a.m. **E68** **Medicolegal Death Investigations After Disasters: Newly Developed Tools to Improve Data Collection**  
*Sarah Davis Redman, PhD\*; Catharine Q. Fromknecht, BS; Luciana A. Rocha, BA; Joanne Brady, PhD; Margaret Warner, PhD; Rebecca S. Noe, MPH*

9:45 a.m. - 10:00 a.m. **E69** **Investigations of Healthcare Serial Killers (HSKs) and Implications for Health Data Analytics**  
*John M.M. Rumbold, PhD\*; Barbara K. Pierscioneck, PhD*

10:00 a.m. - 10:15 a.m. **E70** **The Forensic Implications of Current Practices in Emergency Services**  
*S.B. Addison Larson, BA\**

10:15 a.m. - 10:30 a.m. **Break**

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*Moderator: Lurena A. Huffman, BS  
Suffolk Police Department  
Hampton, VA*

*Co-Moderator: Matthew C. Wietbrock, BS  
Lafayette, IN*

10:30 a.m. - 10:45 a.m. **E71** **The Use of Heterospecific Development Data for Time of Colonization (TOC) Estimation**  
*Michelle R. Sanford, PhD; Adrienne L. Brundage, PhD\*; Lue Cuttiford, MSc*

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- 10:45 a.m. - 11:00 a.m. **E72** **Authentication of Museum-Curated Tsantsas (Shrunken Heads) Utilizing Next Generation Sequencing Technology**  
*Courtney L. Mower, BS\**; *Anna N. Dhody, MFS*; *Kimberlee Sue Moran, MSc*;  
*Shanan S. Tobe, PhD*
- 11:00 a.m. - 11:15 a.m. **E73** **Rapid Detection of Saliva Presence Using the Phadebas Press Test: A Comparative Study of Three Common Bra Materials and Sealed Envelopes**  
*Young Wang\**
- 11:15 a.m. - 11:30 a.m. **E74** **Analysis of Bullet Wipes by Scanning Electron Microscopy/Energy Dispersive X-Ray Spectroscopy (SEM/EDS)**  
*Bryan R. Burnett, MS\**
- 11:30 a.m. - 11:45 a.m. **E75** **A Comparison of Accidental Self-Inflicted Gunshot Wounds Occurring in Rural vs. Urban Settings**  
*Krysten L. Addison, MS\**; *Taylor R. Vanek\**; *Kendall V. Crowns, MD*;  
*Adrienne Segovia, MD*; *Ta'kena Stewart-Muhammad, BA*
- 11:45 a.m. - 12:00 p.m. **E76** **Comprehensive Forensic Analysis of 3D-Printed Firearms**  
*Shanley Brezen, BS\**; *Kiffin A. Champlin, BS*; *Carol Crowe, BS*; *April L. Flack, MS*;  
*Kailee Henson, MFS*; *Dale Higashi, BS*; *Tiffany Rayback, BS*; *Alex Rugh, MS\**;  
*Eric W. Thornton, BA\**; *Lisa Casey Yoshida, BS*
- 12:00 p.m. - 1:00 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **E77** **Benefit or Burden?: Forensic Science K-12 Outreach**  
*Kelly L. Knight, MS\**; *Padmanabhan Seshaiyer, PhD*
- 11:30 a.m. - 1:00 p.m. **E78** **The Changing Landscape of Forensic Science Education: How a Historically Black University Is Addressing the Need for Underrepresented Minorities**  
*Pamela L. Marshall, PhD\**; *Paris F. Favorite, BS*
- 11:30 a.m. - 1:00 p.m. **E79** **Visualizations for Introducing Database Concepts in Forensic Science**  
*Kimberly S. Kobjek, MS\**
- 11:30 a.m. - 1:00 p.m. **E80** **Fatal Dog Attacks: An Eight-Year Study From 2009 to 2016 in Italy**  
*Francesco Sessa, MS\**; *Luigi Sasso*; *Mauro A. Ciavarella*; *Gabriela Perilli, MD*
- 11:30 a.m. - 1:00 p.m. **E81** **The Hand-Drawn Composite — Old School Still Works With New Tech**  
*Sandra R. Enslow, BA\**
- 11:30 a.m. - 1:00 p.m. **E82** **Using Drones for 3D On-Site Body Documentation — Experiments Inspired by Real-Life Forensic Cases**  
*Petra Urbanová, PhD\**; *Mikolas Jurda, MSc*; *Tomáš Vojtišek, PhD*; *Jan Krajsa, PhD*



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- 11:30 a.m. - 1:00 p.m. **E83** **Implementing a Drone Program for the Houston Forensic Science Center Crime Scene Unit**  
*Jeff S. Crusier, BA\**; *Amy Castillo, PhD*; *Jerry Pena*
- 11:30 a.m. - 1:00 p.m. **E84** **Learning to Spot Aquatic Crimes Against Children (ACAC): An Examination of Situational Context Identifying Six Categories**  
*Christina M. Elliott, BA\**; *Mary E.S. Case, MD*; *Idaly P. Hidalgo, MD*;  
*Andrea Zaferes, BA*
- 11:30 a.m. - 1:00 p.m. **E85** **A Non-Contact Passive Approach for the Effective Collection of Target Cadaveric Volatile Organic Compounds (VOCs) for Canine Training Aid Development**  
*Marcello Rendine\**; *Carmela Fiore, MD*; *Palmira Fortarezza, MS*;  
*Cristoforo Pomara, MD, PhD*; *Irene Riezzo, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **E86** **Fatal Asphyxia by Bolus in Elders With Mental Illness: The Role of Oral Health and Antimuscarinic Action of Drug Treatment**  
*Isabella Aquila, MD\**; *Ciro Di Nunzio, MFS, PhD\**; *Emilio Nuzzolese, PhD*;  
*Santo Gratteri, MD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **E87** **The Essential Role of Forensic Medicine in the Investigation and Documentation of Torture and Ill Treatment**  
*Duarte Nuno Vieira, MSc, PhD, MD\**; *Vera Sterzik, MD*
- 11:30 a.m. - 1:00 p.m. **E88** **Explosive Force During a Wheel Blowout Induces Death**  
*Benjamin Mokdad\**; *Sophie Thureau, MD*; *Anne-Claire Lhoumeau, MD*;  
*Isabelle leblanc, MD*; *Bernard Proust, PhD*; *Gilles Tournel, PhD*
- 11:30 a.m. - 1:00 p.m. **E89** **Survey on Deaths and Causes of Death in a University Hospital: The Calabrian Experience**  
*Debora De Bartolo, MD\**; *Tatiana Cerra, MD*; *Francesco Ausania, MD\**;  
*Santo Gratteri, MD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **E90** **Killing Methods in Sicilian Mafia Families**  
*Elvira Ventura Spagnolo\**; *Cristina Mondello*; *Luigi Cardia*; *Francesca Giuffrida*;  
*Antonina Argo*; *Stefania Zerbo, MD*; *Giulio Cardia*
- 11:30 a.m. - 1:00 p.m. **E91** **A New Type of Theft in the Government's Courier Cargo Truck Service in Brazil**  
*Gustavo G. Parma, MD\**; *Amilton Soares, Jr.*
- 11:30 a.m. - 1:00 p.m. **E92** **Association of Foot With Footwear: A Study of the Characteristic Features of Rubber Slipper Insoles**  
*Kewal Krishan, PhD\**; *Tanuj Kanchan, MD*
- 11:30 a.m. - 1:00 p.m. **E93** **A Case Report of a Migrating Bullet: An Unusual Cause of Postmortem Confusion**  
*Robert J. Bready, MS\**; *Dennis J. Chute, MD*; *Kia K. Newman, MD*
- 11:30 a.m. - 1:00 p.m. **E94** **Who Do the Voodoo? A Rapid Field Technique to Identify the Provenance of Unknown Human Skeletal Remains in "Ritual" Cases**  
*Carole A.L. Davenport, BSc\**; *Silvia Gonzalez, PhD*

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*Moderator: Gina Londino, MS  
IUPUI  
Indianapolis, IN*

*Co-Moderator: Catherine G. Rushton, MSFS  
Marshall University  
Forensic Science Program  
Huntington, WV*

- 1:00 p.m. - 1:15 p.m. **E95** **Novel Bioaffinity-Based Cascades for the Determination of Biological Sex From Fingerprints**  
*Crystal Huynh\**; *Erica K. Brunelle, BSc\**; *Lenka Halamkova, PhD*;  
*Juliana M. Agudelo, BSc\**; *Leif McGoldrick, BS\**; *Jan Halámek, PhD\**
- 1:15 p.m. - 1:30 p.m. **E96** **Preliminary Studies Focusing on How Forensic Science and Law Students Understand Evidence Interpretation and the Importance of Empirical Evidence**  
*Michaela F. Regan\**; *Ruth Morgan, PhD*; *Adam Gibson, PhD*
- 1:30 p.m. - 1:45 p.m. **E97** **The Trials and Errors of Transitioning to a Hybrid Learning Platform**  
*Crystal L. Wagoner, MFS\**; *Christina A. Leija, MS\**
- 1:45 p.m. - 2:00 p.m. **E98** **Creating an Ethical Reasoning Curriculum for Forensic Science Majors**  
*Lyndsie N. Ferrara, MS\**; *James B. Schreiber, PhD*
- 2:00 p.m. - 2:15 p.m. **E99** **The Arizona Forensic Science Academy: A Model Program for Delivering Forensic Science Education to Criminal Justice Practitioners**  
*Jody M. Wolf, MS\**
- 2:15 p.m. - 2:30 p.m. **E100** **Transforming Forensic Science Education With Service and Experiential Learning**  
*Caitlin E. Porterfield, MS\**; *Mark R. McCoy, EdD\**
- 2:30 p.m. - 2:45 p.m. **E101** **WITHDRAWN**
- 2:45 p.m. - 3:00 p.m. **Break**

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*Moderator: Amanda L. Farrell, PhD  
Marymount University  
School of Education and Human Services  
Arlington, VA*

*Co-Moderator: Jessica Ann Veltri, MS  
U.S. Army CID  
Joint Base Lewis-McChord, WA*

- 3:00 p.m. - 3:15 p.m. **E102** **Examination of Genetic Drift in Mitochondrial DNA (mtDNA) Heteroplasmy in Hair Samples Using a Massively Parallel Sequencing (MPS) Approach**  
*Jamie Gallimore\**; *Jennifer A. McElhoe, DPhil*; *Mitchell M. Holland, PhD*



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- 3:15 p.m. - 3:30 p.m. **E103 Visualization of Fingerprints on Post-Blast Improvised Explosive Device (IED) Fragments and Debris**  
*Alexander Smyth\**; *Mark Sims, PhD*; *John Holt*; *Marwan El Khoury, MSc*
- 3:30 p.m. - 3:45 p.m. **E104 Preparation of “Gummy” Quality Control (QC) Material and the Analysis of Edible “Gummy” Products**  
*Autumn C. Cooper\**; *Carl E. Wolf II, PhD*; *Justin L. Poklis, BS*; *Alphonse Poklis, PhD*
- 3:45 p.m. - 4:00 p.m. **E105 A Comparison of Latent Print Proficiency Tests With Latent Prints Obtained in Routine Casework Using Automated and Objective Quality Metrics**  
*Henry J. Swofford, MSFS*; *Anthony Koertner\**
- 4:00 p.m. - 4:15 p.m. **E106 Analyzing Bare Footprints in Criminal Cases — Interpreting a Large-Scale Footprint Study in India**  
*Kewal Krishan, PhD\**; *Tanuj Kanchan, MD*; *John A. DiMaggio, DPM*; *Michael S. Nirenberg, DPM*
- 4:15 p.m. - 4:30 p.m. **E107 A Study of Drug Trafficking on Cryptomarkets: Structure, Organization, and Comparison With the Traditional Market Through a Canadian Perspective**  
*Frank Crispino, PhD\**; *Damien Rhumorbarbe, MSc*; *Caroline Mireault, MA*; *Vincent Ouellette, BSc*; *David Decary-hetu, PhD*; *Julian Broseus, PhD*
- 4:30 p.m. - 4:45 p.m. **E108 Maxi Trial “Iscaro-Saburo”: The Judicial Birth of the Fifth Italian Mafia**  
*Michele Vaira, JD\**; *Anna Cornacchio\**; *Palmira Fortarezza, MS\**; *Giuseppe Bertozzi, MD\**; *Monica Salerno, MD, PhD\**; *Cristoforo Pomara, MD, PhD\**
- 4:45 p.m. - 5:00 p.m. **E109 The Face of the Laboratory: Creating and Implementing a Client Services and Case Management Division**  
*Ashley Henry, MA\**; *Marissa Noel, BS*

### *Friday — Session II*

#### **Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy**

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*Moderator: David O. Carter, PhD*  
*Chaminade University of Honolulu*  
*Forensic Sciences Unit*  
*Honolulu, HI*

*Co-Moderator: Eriek S. Hansen, PhD*  
*Colorado Mesa University*  
*Dept Biological Science*  
*Grand Junction, CO*

- 1:00 p.m. - 1:15 p.m. **A122 Postmortem Interval Estimation Using the Blackened Osteocyte Method**  
*Sarah Long, BS\**; *Lynne S. Bell, PhD*; *Joan A. Bytheway, PhD*
- 1:15 p.m. - 1:30 p.m. **H128 Changes in Bacterial Community Structure and the Estimation of Long-Term Postmortem Interval (PMI)**  
*Michael S. Woolf, MS\**; *Vanessa Sufrin, MS*; *Tal Simmons, PhD*; *Baneshwar Singh, PhD\**



# GENERAL



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- 1:30 p.m. - 1:45 p.m. **E110 Bioelectrical Impedance Analysis as a Technique for Estimating the Postmortem Interval (PMI) in Human Remains**  
*Eriek S. Hansen, PhD\**; *Melissa A. Connor, PhD*; *Christiane Baigent, MSc*
- 1:45 p.m. - 2:00 p.m. **E111 Measuring Desiccation Using Qualitative Changes**  
*Melissa A. Connor, PhD\**; *Christiane Baigent, MSc*; *Eriek S. Hansen, PhD*
- 2:00 p.m. - 2:15 p.m. **A123 A New Approach to Estimating Accumulated Degree Days (ADD): Using Binary Observations From Various Regions of the Body With Random Forest Modeling (RFM) and Geographic Information Systems (GIS)**  
*Michael W. Kenyhercz, PhD\**; *Dawnie W. Steadman, PhD*; *Annemarie C. Gundel, BA*
- 2:15 p.m. - 2:30 p.m. **A124 Validation of the Total Body Score/Accumulated Degree Days (TBS/ADD) Equation at 100, 300, 500, and 1,000 ADD on 30 Human Subjects With a Known Postmortem Interval (PMI) From Three Human Decomposition Facilities**  
*Joan A. Bytheway, PhD\**; *Nichole Miller*; *Dawnie W. Steadman, PhD*;  
*Kelly Sauerwein, MA*; *Daniel J. Wescott, PhD*; *Chaunesey Clemmons, BA*;  
*Devora S. Gleiber, BA*; *Chloe P. McDanel, MA*; *Lauren A. Meckel, MA*
- 2:30 p.m. - 2:45 p.m. **H129 Myiasis and Death: Factors and Complications Related to Estimating Time of Colonization After Antemortem Fly Colonization Followed by Death**  
*Michelle R. Sanford, PhD\**; *Darshan R. Phatak, MD*; *Alex John, MD*;  
*Michael R. Condron II, MD*
- 2:45 p.m. - 3:00 p.m. **Break**

## Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy (continued)

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*Moderator: Elizabeth A. Miller, PhD*  
*California State University, Los Angeles*  
*Department of Anthropology*  
*Los Angeles, CA*

*Co-Moderator: Audrey L. Meehan, BS*  
*Ewa Beach, HI*

- 3:00 p.m. - 3:15 p.m. **H130 Coupled Microbiome and Insect Evidence in Death Investigation**  
*M. Eric Benbow, PhD\**; *Jennifer L. Pechal, PhD*; *Heather R. Jordan, PhD*;  
*McKinley Brewer, BS*; *Carl J. Schmidt, MD*
- 3:15 p.m. - 3:30 p.m. **E112 WITHDRAWN**
- 3:30 p.m. - 3:45 p.m. **H131 Analyses of Necrobiome Structure and Function for Utility in Forensic Science**  
*Heather R. Jordan, PhD\**; *Zachary M. Burcham, BS*; *Jeffrey L. Bose, PhD*;  
*Jennifer L. Pechal, PhD*; *Jason Rosch, PhD*; *Carl J. Schmidt, MD*; *M. Eric Benbow, PhD*





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## GENERAL

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- 3:45 p.m. - 4:00 p.m.    **E113**    **What Forensic Archaeology and Forensic Taphonomy Can Offer to Medicolegal Death Investigation**  
*Dennis C. Dirkmaat, PhD\**; *Luis L. Cabo, MS*
- 4:00 p.m. - 4:15 p.m.    **E114**    **Trauma and/or Taphonomy? Analysis of Peri-Mortem Trauma Observed in a Post-Battle World War II Cemetery and the Complications of Taphonomy in Discerning Trauma**  
*Kristen N. Baker, MA\**; *Hillary R. Parsons, PhD\**
- 4:15 p.m. - 4:30 p.m.    **A125**    **Vulture Scavenging of Small-Sized Pig Carcasses in Central Florida: Utilizing Geographic Information Systems (GIS) to Analyze Site Variables Affecting Skeletal Dispersal**  
*John J. Schultz, PhD\**; *Alexander T. Mitchell*
- 4:30 p.m. - 4:45 p.m.    **A126**    **Differential Temperatures of the Human Body and Fire**  
*Elayne J. Pope, PhD\**; *Amanda Williams, MA*; *Alison Galloway, PhD*
- 4:45 p.m. - 5:00 p.m.    **H132**    **Digging Up the Past — An Atypical Medical Examiner’s Case**  
*Haley K. Scott, BSc\**; *Joseph T. Hefner, PhD*; *Philip R. Croft, MD, JD*

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## Wednesday

### Poster Session

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- 11:30 a.m. - 1:00 p.m. **F1** **Carotid Sinus Hypersensitivity, Psychogenic and Vasovagal Syncope, and Homicide: The Importance of Negative Results of Biologic Evidence in Court**  
*Sara Raponi, JD\**; *Patrizia Trapella, JD, MA*; *Luca Massaro, MD*;  
*Matteo Borrini, PhD*
- 11:30 a.m. - 1:00 p.m. **F2** **Improving the Results of Forensic Science: Two Successful Solutions Developed in Brazil**  
*Gustavo Costa, MS\**

## Thursday

### Identification, Driving Under the Influence (DUI), and Digital

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*Moderator: Michele Vaira, JD*  
*Foggia, ITALY*

- 8:30 a.m. - 8:50 a.m. **F3** **Assessing the Strength of Fingerprint Conclusions**  
*Michele Triplett, BS\**
- 8:50 a.m. - 9:10 a.m. **F4** **Fingerprint Science**  
*Joseph B. Kadane, PhD\**
- 9:10 a.m. - 9:30 a.m. **F5** **Lay Understanding of “Identification”: How Jurors Interpret Forensic Identification Testimony**  
*Henry J. Swofford, MSFS\**; *Jessica Gabel Cino, JD*
- 9:30 a.m. - 9:45 a.m. **Break**
- 9:45 a.m. - 10:05 a.m. **F6** **Roadside Saliva: Are Oral Fluid Collection (OFC) Devices the Proper Tool to Help a Non-Physician Make a Diagnosis at a Roadside Traffic Stop (RTS)?**  
*Michael J. Nichols, JD\**; *Jeremy C. Brehmer, JD\**
- 10:05 a.m. - 10:25 a.m. **F7** **Retrograde Extrapolation as a Part of Accident Reconstruction: A Case Study**  
*Jeremy C. Brehmer, JD\**; *Ronald L. Moore, Esq., JD\**
- 10:25 a.m. - 10:45 a.m. **F8** **The Use of Standardized Field Sobriety Tests for Drug Impairment: An Evaluation of the Research, Ethical Implications, and Legal Issues**  
*Harry L. Miles, JD\**; *Sabra R. Botch-Jones, MS, MA\**
- 10:45 a.m. - 11:05 a.m. **F9** **Social Media and the Justice System**  
*Donald E. Shelton, JD, PhD\**



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# JURISPRUDENCE

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- 11:05 a.m. - 11:25 a.m. **F10** **Analyses of Multiple Mobile Devices and Services in Distracted Driving Cases: Data Synchronization and Defeating Unscientific Applications of Those Data**  
*Bruce N. Ringstrom, Jr., JD\**; *John J. Carney, JD\**; *Joseph M. Parise, JD*
- 11:25 a.m. - 11:45 a.m. **F11** **When DNA Alone Is Not Enough: Exoneration by Computer Interpretation**  
*Mark W. Perlin, PhD, MD\**; *Frances L. Watson, JD\**; *Greg Hampikian, PhD*
- 11:45 a.m. - 1:00 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **F12** **Utilization of Infrared Photography to Detect and Document Gunshot Powder Residue on Clothing: A Comparative Study**  
*Tamara Tracy, MFS\**; *Ismail M. Sebetan, MD, PhD\**; *Paul Stein, PhD\**;  
*Shelli A. Friesen, MFS*
- 11:30 a.m. - 1:00 p.m. **F13** **Off Label: A Hope or a Liability? An Analysis of Cases in Oncology**  
*Maricla Marrone, MD; Francesco Gismondi; Bruno Morgese, MD;*  
*Francesca Tarantino, MD; Alessio Ostuni, MD\*; Alessandro Dell'Erba, PhD;*  
*Antonio Delvino; Patrizia Nardulli*

## DNA and Law

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*Moderator: Gail C. Groy, JD*  
*Rizzo & Diersen, SC*  
*Verona, WI*

*Co-Moderator: Robert M. Sanger, JD*  
*Sanger Swysen & Dunkle*  
*Santa Barbara, CA*

- 1:00 p.m. - 1:20 p.m. **F14** **Three Coins in a Fountain: How the Florida Arrestee Database Solved a New York John Doe Rape Case 20 Years After the Fact**  
*Melissa Mourgues, JD\**; *Martha Bashford, JD\**
- 1:20 p.m. - 1:40 p.m. **F15** **Presenting Probabilistic Genotyping Evidence in Court**  
*Robert F. Hedges, JD\**
- 1:40 p.m. - 2:00 p.m. **F16** **Wrongful Convictions and DNA Exonerations: Understanding the Role of Forensic Science as a Contributing Factor**  
*Gerald M. LaPorte, MSFS\**
- 2:00 p.m. - 2:20 p.m. **F17** **The Yara Gambirasio Case**  
*Michele Vaira, JD\**; *Luciano Garofano, PhD\**
- 2:20 p.m. - 2:40 p.m. **F18** **Trouble With Y: Tribal Populations Cannot Be Pooled**  
*Charles H. Brenner, PhD\**; *Jami Johnson, LLD\**
- 2:40 p.m. - 2:50 p.m. **Break**



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- 2:50 p.m. - 3:10 p.m. **F19** **Moving Toward New Requirements for the Admissibility of Evidence**  
*Barry A.J. Fisher, MS, MBA\**
- 3:10 p.m. - 3:30 p.m. **F20** **Science and Law: Ships Passing in the Night**  
*Donald E. Shelton, JD, PhD\**
- 3:30 p.m. - 3:50 p.m. **F21** **Dealing With Len Bias Laws and *Burrage v. United States*: Best Practices to Avoid Potential Pitfalls for Attorneys and Medical Examiners**  
*Stephanie Domitrovich, JD, PhD\**; *Jeffrey M. Jentzen, MD\**
- 3:50 p.m. - 4:10 p.m. **F22** **“You Have the Right to Remain Silent”: Autopsy Reports and a Defendant’s Sixth Amendment Confrontation Rights**  
*Stephanie Domitrovich, JD, PhD\**; *Jeffrey M. Jentzen, MD\**
- 4:10 p.m. - 4:30 p.m. **F23** **Lonesome Dove: The Solitary Life of a Forensic Laboratory Legal Advisor**  
*Anece Baxter-White, JD\**
- 4:30 p.m. - 4:50 p.m. **F24** **The New Standard: The New York State Experience Post-Sean John**  
*Rachel S. Singer, JD\**

## Friday — Session I

### Law, Probability, and DNA

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Moderator: *Anne C. Petty, JD*  
*Chicago, IL*

Co-Moderator: *Sara Raponi, JD*  
*Rome, ITALY*

- 8:30 a.m. - 8:50 a.m. **F25** **The Academy Standards Board (ASB) for Firearms and Toolmarks: Legal Issues**  
*Robert M. Sanger, JD\**
- 8:50 a.m. - 9:10 a.m. **F26** ***Frye, Daubert, or None of the Above: What Rules Govern Admissibility of Scientific Evidence in Court?***  
*Andrea A. Darvas, JD\**
- 9:10 a.m. - 9:30 a.m. **F27** **Lawyer-Scientist: Issues of Competency, Validation, and Ethics**  
*Rafael E. Silva, JD; Mary C. McMurray, BS\**
- 9:30 a.m. - 9:50 a.m. **F28** **Constitutional Requirement to Litigate Scientific Evidence**  
*Natalie Arvizu, JD\**; *Gil Sapir, JD\**
- 9:50 a.m. - 10:10 a.m. **F29** **On the Threshold of Injustice: Manipulating DNA Evidence**  
*Mark W. Perlin, PhD, MD\**; *William P. Allan, MS; Clinton Hughes, JD\**
- 10:10 a.m. - 10:20 a.m. **Break**



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- 10:20 a.m. - 10:40 a.m. **F30** **Cross-Disciplinary Communication: Understanding Commonly Used Terms in Statistics**  
*Glinda S. Cooper, PhD\**; *Sarah Chu, MS*; *Kareem Belt, MS*
- 10:40 a.m. - 11:00 a.m. **F31** **Logical Reasoning: Old Solutions for Current Issues**  
*Simone Gittelson, PhD\**
- 11:00 a.m. - 11:20 a.m. **F32** **Brazilian DNA Database on Trial**  
*Meiga A.M. Menezes, MSc*; *Helio Buchmuller, PhD\**;  
*Guilherme Silveira Jacques, MSc*
- 11:20 a.m. - 11:40 a.m. **F33** **Women and Violence: Politics, Science Education, and Judicial Integrity**  
*Carl N. Edwards, JD, PhD\**; *Stephanie Domitrovich, JD, PhD\**
- 11:40 a.m. - 12:00 p.m. **F34** **What's Law Got to Do With It? Forensics in a Pediatric Health Setting: A Case Report**  
*Maria Susana Ciruzzi, PhD\**
- 12:00 p.m. - 1:00 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **F35** **Reconciling Differences Between Lawyers and Forensic Scientists in a Law School Setting Toward Advancement of the Professions**  
*Frances L. Watson, JD\**
- 11:30 a.m. - 1:00 p.m. **F36** **Analysis of Drug Paraphernalia in a Wrongful Death Case**  
*Rachel C. Beck, PhD*; *C. Andrew Robinson, Jr., PhD\**; *Susan Kloda*;  
*Daniel W. Dye, MD*; *Gary T. Simmons, MD*

## Metrology, Bugs, and General

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*Moderator: S.B. Addison Larson, BA*  
*Sherman, CT*

*Co-Moderator: John J. Carney, JD*  
*Carney Forensics*  
*Scandia, MN*

- 1:00 p.m. - 1:20 p.m. **F37** **The Total Team: The Investigators, Forensic Scientists, and the Attorneys in a Capital Case From Kansas**  
*Neal H. Haskell, PhD\**; *Leon G. Higley, PhD*; *Amanda L. Roe, PhD*
- 1:20 p.m. - 1:40 p.m. **F38** **Are All Instruments Always Valid and Reliable in Ascertaining a Crime?**  
*Alessandro M. Ferrero, MSc*; *Veronica Scotti, LLM\**
- 1:40 p.m. - 2:00 p.m. **F39** **Method Validation and Admissibility of Forensic Alcohol and Drug Tests**  
*Donald J. Ramsell, JD\**

# JURISPRUDENCE



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- 2:00 p.m. - 2:20 p.m. **F40** **From the CIA to CSI: How the Intelligence Community's Structured Analytical Techniques Can Offset Forensic Bias**  
*Max M. Houck, PhD\**
- 2:20 p.m. - 2:40 p.m. **F41** **Cooperation Between Law Enforcement and Entomologists Leads to Practical Research Questions**  
*Kristi Bugajski, PhD\**
- 2:40 p.m. - 2:55 p.m. **Break**
- 2:55 p.m. - 3:15 p.m. **F42** **Organization of Scientific Area Committees (OSAC): Developing Forensic Science Standards, Identifying Research Needs, and Informing the Research Community and the National Institute of Justice (NIJ)**  
*Mark D. Stolorow, MS, MBA\*; Gerald M. LaPorte, MSFS\**
- 3:15 p.m. - 3:35 p.m. **F43** **Changing Forensic Science Practice to Meet the Demands of Law and Science**  
*Neal H. Haskell, PhD; Leon G. Higley, PhD\**
- 3:35 p.m. - 3:55 p.m. **F44** **Look! Up in the Sky! It's a Bird — It's a Plane — It's a Building, Antenna, Span, and Earth (BASE) Jumper?**  
*Kerry J. O'Connell, JD\*; Joseph A. Giovannetti, JD\**
- 3:55 p.m. - 4:15 p.m. **F45** **Vitreous Chemical Analysis in Postmortem Cases: Reliability of Reported Methamphetamine Concentrations**  
*Jeremy C. Brehmer, JD\**

## Friday — Session II

### Multidisciplinary Session: Jurisprudence Session II/Questioned Documents

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Moderator: *Linton Mohammed, PhD*  
*Forensic Science Consultants, Inc*  
*Burlingame, CA*

Co-Moderator: *Christine Haskell, JD*  
*Rensselaer, IN*

- 1:00 p.m. - 2:00 p.m. **J23** **A Review of the *Almegciga et al. v. Center for Investigative Reporting, Inc. et al.* Decision**  
*Jan Seaman Kelly, BA\*; Stephanie Domitrovich, JD, PhD\*; Linton Mohammed, PhD\**
- 2:00 p.m. - 2:40 p.m. **J24** **The Background, Training, and Experience of Questioned Document Examiners: Present Practice and Future Direction**  
*Mara L. Merlino, PhD\*; Tierra M. Freeman, PhD\*; La'Quida Smith, MA\*; Ivan Duvall\**
- 2:40 p.m. - 2:55 p.m. **Break**



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# JURISPRUDENCE

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- 2:55 p.m. - 3:35 p.m.    **F46**    **Is Your Handwriting Expert’s Testimony Admissible? Navigating *Daubert/Kumho* Challenges to Enhance the Likelihood That Gatekeepers Will Find Handwriting Comparison Evidence Sufficiently Reliable to Be Admissible Under Federal Rule of Evidence 702 (Fed. Rule 702)**  
*Andrew Sulner, MSFS, JD\**
- 3:35 p.m. - 4:15 p.m.    **J25**    **Minimizing Cognitive Bias in Forensic Document Examination**  
*Jane A. Lewis, MFS\**
- 4:15 p.m. - 4:55 p.m.    **J26**    **Forensic Document Examination in International Humanitarian and Human Rights Cases**  
*Tobin A. Tanaka, BS\**

# ODONTOLOGY



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## Wednesday

### Poster Session

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- 11:30 a.m. - 1:00 p.m. **G1** **The Third Molar Cut-Off Value in Assessing the Legal Age of 18 in the Saudi Population**  
*Sakher J. AlQahtani, PhD\**; *Alemad Kawthar, BDS*; *Ayman AlAraik, BDS*;  
*Ahmad AlShalan, BDS*
- 11:30 a.m. - 1:00 p.m. **G2** **The Interpretation of Canine Scavenging Lesions on Human Corpses**  
*Vadim Mesli, MD\**; *Erwan Le Garff, MD*; *Tournel Gilles, MD, PhD*;  
*Anne A. Becart, DDS, PhD*; *Valéry C. Hedouin, MD, PhD*

## Thursday

### Dental Age Estimation 1

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*Moderator: Mark C. Frill, DDS*  
*Papillion, NE*

- 8:30 a.m. - 8:50 a.m. **G3** **Dental Age Estimation: Combining Radiographic Information of Two Dental and Four Skeletal Predictors in Children**  
*Akiko Kumagai\**; *Guy Willems, PhD*; *Ademir Franco, MSc*; *Steffen Fieuws, PhD*;  
*Patrick W. Thevissen, PhD*
- 8:50 a.m. - 9:10 a.m. **G4** **The Accuracy of Third Molar Development as an Indicator of Chronological Age in a Texas Asian Population Using Demirjian's Method**  
*Diana Blair Drvostep, DDS\**; *David R. Senn, DDS*
- 9:10 a.m. - 9:30 a.m. **G5** **Utilizing Custom Spreadsheets for Age Assessment Cases**  
*Derek M. Draft, DDS\**
- 9:30 a.m. - 9:45 a.m. **G6** **Forensic Age Estimation (FAE) By Third Molar Mineralization Using Digital Orthopantomography (OPG)**  
*Venkatesh Maled, MD\**; *Asha Sude, BDS*
- 9:45 a.m. - 10:00 a.m. **G7** **Third Molar Magnetic Resonance Imaging (MRI) in Forensic Age Estimation: Protocol Development and Considerations for Use**  
*Jannick De Tobel, MD\**; *Elke Hillewig, MSc*; *Stephanie Bogaert, MA*;  
*Karel Deblaere, DPhil*; *Constantinus Politis, PhD*; *Koenraad L. Verstraete, DPhil*;  
*Patrick W. Thevissen, PhD*
- 10:00 a.m. - 10:15 a.m. **Break**





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## Dental Age Estimation 2

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*Moderator: Leigh-Ann Schuerman, DMD  
Cave Creek, AZ*

- 10:15 a.m. - 10:30 a.m.    **G8**    **Root Pulp Visibility (RPV): A Reliable Mandibular Maturity Marker (MMM) to Determine a Subject's Status at the 18-Year Threshold**  
*Victoria S. Lucas, PhD\*; Fraser McDonald, PhD; Graham J. Roberts, MDS*
- 10:30 a.m. - 10:45 a.m.    **G9**    **The Integration of Vertebrae and Teeth Analysis for Age Estimation in a Population of Libyan Children**  
*Ashref Dardouri, MSc; Roberto Cameriere; Stefano De Luca, PhD; Stefano Vanin, PhD\**
- 10:45 a.m. - 11:05 a.m.    **G10**    **A Novel, Semi-Universal X-Ray Sensor Holder**  
*David R. Senn, DDS; Brent D. Martin, DMD\**
- 11:05 a.m. - 11:30 a.m.    **G11**    **The Accuracy of the London Atlas of Human Tooth Development and Eruption in Dental Age Estimations of Saudi, Spanish, and Italian Children**  
*Sakher J. AlQahtani, BDS, PhD\*; Joe Adserias, DDS, PhD\*; Emilio Nuzzolese, PhD\*; Giancarlo Di Vella, MD, PhD*
- 11:30 a.m. - 1:00 p.m.    **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **G12**    **Evaluating a Bitemark in Light of the Scientific Research Regarding Skin Distortion**  
*Richard Boguslaw, DMD\**
- 11:30 a.m. - 1:00 p.m.    **G13**    **The Use of Age Estimation Analysis for the Identification of Four Male Siblings in a House Fire in Kane, Manitoba, Canada**  
*Trenna M. Reeve, DMD\*; Carla R. Penner, DDS\*; Noriko B. Boorberg, DMD\**

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## Thomas Krauss Memorial Bitemark Session

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*Moderator: Melinda Hacker, DDS  
Carrizozo, NM*

- 1:00 p.m. - 1:15 p.m.    **G14**    **The Kwok Bitemark Case Revisited**  
*Duane E. Spencer, DDS\**
- 1:15 p.m. - 1:30 p.m.    **G15**    **Domestic Violence and the Death of a Child**  
*Barry E. Lipton, DDS\**



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# ODONTOLOGY

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- 1:30 p.m. - 2:00 p.m. **G16** **Analysis, Comparison, and Misinterpretation: Do You Really Want to Ban All Bitemark Evidence?**  
*Richard R. Souviron, DDS\*; Leslie A. Haller, DMD*
- 2:00 p.m. - 2:15 p.m. **G17** **Human Bites: A Diagnosis**  
*Richard H. Fixott, DDS\**
- 2:15 p.m. - 2:30 p.m. **G18** **How the Lack of Human Dentition Uniqueness in Orthodontically Treated Patients and Twins Affects Bitemark Investigations**  
*Patrick W. Thevissen, PhD\*; Ademir Franco, MSc; Guy Willems, PhD*
- 2:30 p.m. - 3:00 p.m. **G19** **The Torgersen Tooth Mark Case From Norway — An Enigma**  
*Tore T. Solheim\**
- 3:00 p.m. - 3:15 p.m. **G20** **Hazards With Bitemark Identifications**  
*Cheri Lewis, DDS\*; Leonor A. Marroquin, MS*
- 3:15 p.m. - 3:30 p.m. **Break**

## General Odontology

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*Moderator: Brent D. Martin, DMD  
San Antonio, TX*

- 3:30 p.m. - 3:45 p.m. **G21** **The Greening of Cremation: The Elimination of Cremercury**  
*Winnie Furnari, MS\**
- 3:45 p.m. - 4:00 p.m. **G22** **Looking Into the Past: Challenges With Dental Identifications of Historically Unidentified Individuals**  
*Taylor L. Gardner, BFSc\*; Kathy L. Gruspier, JD, PhD\*; Yolanda Nerkowski, BA\*; Robert E. Wood, DDS, PhD\**
- 4:00 p.m. - 4:15 p.m. **G23** **Third Molar Maturity Index (I3M) for Assessing the Age of Majority: The Experience in Several Different Countries**  
*Roberto Cameriere\**
- 4:15 p.m. - 4:30 p.m. **G24** **Are Texas Dentists Prepared to Recognize and Report Elderly Abuse?**  
*John E. Pitts, DDS\**



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# ODONTOLOGY

## Friday

### Dental Identification 1

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*Moderator: Derek M. Draft, DDS  
Grandville, MI*

- 8:30 a.m. - 8:45 a.m. **G25** **The Lake Ontario Floater: Identifying “John Doe”**  
*Randolph L. Mitchell, DMD\**
- 8:45 a.m. - 9:00 a.m. **G26** **“Three Dog Night” or Death by Dog**  
*William E. Silver, DDS\*; Leslie A. Haller, DMD; Richard R. Souviron, DDS*
- 9:00 a.m. - 9:15 a.m. **G27** **Marking Dental Prostheses**  
*Charles E. Georget, PhD\*; Aime Conigliaro, MSc; Gwenola Drogou, DDS*
- 9:15 a.m. - 9:30 a.m. **G28** **The Yarnell 19: The Deadliest Wildfire in Arizona History and the Successful Implementation of Rapid Identification of the Granite Mountain Hotshots Firemen**  
*Christen C. Eggers, MS\*; John A. Piakis, DDS; Melanie Rouse, MS*
- 9:30 a.m. - 9:45 a.m. **G29** **“Oscar” the 1985 Unidentified Person (UP): Forensic Evolution — Odontology to Phenotyping**  
*Patrick A. Murray, DDS\*; Warren D. Tewes, DDS*
- 9:45 a.m. - 10:00 a.m. **G30** **“Oscar” the 1985 Unidentified Person: A Career Development Adventure**  
*Warren D. Tewes, DDS\*; Patrick A. Murray, DDS*
- 10:00 a.m. - 10:15 a.m. **Break**

### Dental Identification 2

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*Moderator: Robin A. Scheper, DDS  
Gulfport, MS*

- 10:15 a.m. - 10:30 a.m. **G31** **Fractalyse Software — The Analysis of the Trabecular Bone in Identification**  
*Sylvain Desranleau, DMD\*; Robert B.J. Dorion, DDS*
- 10:30 a.m. - 10:45 a.m. **G32** **Using More Than Radiographs in Identification: A Crown, a Scanner, and a Denture**  
*Danny J. Pogoda, DDS\**
- 10:45 a.m. - 11:00 a.m. **G33** **The Princes in the Tower: Dental Age Estimation of the Archived Records of the Extant Remains of Edward V and Richard, Duke of York**  
*Graham J. Roberts, MDS\*; Fraser McDonald, PhD; Victoria S. Lucas, PhD*

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- 11:00 a.m. - 11:15 a.m. **G34** **Dental Identification of World War II Remains: The Battle of Saipan — June 1944**  
*Roy H. Sonkin, DDS\**; *Howard S. Glazer, DDS*
- 11:15 a.m. - 12:00 p.m. **G35** **The Analyses of Dental Remains From 1607 Jamestown, Virginia, Using Micro-Computed Tomography (micro-CT) Imaging, Scanning Electron Microscopy With Energy-Dispersive X-Ray Spectroscopy (SEM-EDX)/Raman Spectroscopy (RS), and Paleobotany**  
*Barry Pass, PhD\**; *Martin D. Levin, DDS\**; *David J. Cohen, MD*;  
*Zvi Schwartz, PhD*; *Barbara D. Boyan, PhD*; *Dimitry Pestov, PhD*;  
*David Givens, MSc*; *Michael Lavin, BSc*; *Linda Scott-Cummings, PhD*;  
*Douglas W. Owsley, PhD*
- 12:00 p.m. - 1:30 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **G36** **When the Hammer Falls: Patterned Injury Comparison in a Blunt Force Homicide**  
*Laura C. Fulginiti, PhD\**; *John A. Piakis, DDS*; *Katelyn L. Bolhofner, MA*
- 11:30 a.m. - 1:00 p.m. **G37** **Testing a Novel 3D Printed Radiographic Imaging Device for Use in Forensic Odontology**  
*Tara L. Newcomb, MS\**; *Ann M. Bruhn, MS\**

## Dental Identification 3

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*Moderator: James P. Fancher, DDS, PhD*  
*Martindale, TX*

*Co-Moderator: Peter J. Marsh, DDS*  
*Manvel, TX*

- 1:30 p.m. - 2:00 p.m. **G38** **A Distributed System for Human Identification**  
*John Melville, MD\**; *Michael Morrow*
- 2:00 p.m. - 2:15 p.m. **G39** **Dental Identifications Without the Use of Dental Antemortem Radiographs**  
*Amber D. Riley, MS\**; *Anthony R. Cardoza, DDS\**
- 2:15 p.m. - 2:30 p.m. **G40** **Tarawa Revisited: A Summary of Results**  
*Corinne D'Anjou, DMD\**; *James F. Goodrich, BDS\**; *David R. Senn, DDS\**
- 2:30 p.m. - 2:45 p.m. **G41** **Identification Challenges With Fragmented, Disassociated, and Commingled Remains**  
*Corinne D'Anjou, DMD\**; *James F. Goodrich, BDS\**; *David R. Senn, DDS\**



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- 2:45 p.m. - 3:00 p.m. **G42** **The Strengths and Weaknesses of Missing Persons Apps for Smartphones: A Forensic Expert's Perspective**  
*Emilio Nuzzolese, PhD\**; *Sakher J. AlQahtani, PhD\**; *Joe Adserias, DDS, PhD\**;  
*Giancarlo Di Vella, MD, PhD*
- 3:00 p.m. - 3:15 p.m. **G43** **Case Study: Identifying Balloon Fatalities in Central Texas**  
*James P. Fancher, DDS, PhD\**
- 3:15 p.m. - 3:30 p.m. **Break**

## Dental Identification 4

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*Moderator: Peter J. Marsh, DDS*  
*Manvel, TX*

- 3:30 p.m. - 3:45 p.m. **G44** **The Ability to Discern Dental Restorative Materials on Radiographs for Dental Identifications**  
*Veronique F. Delattre, DDS\**; *Georgina V. Medina, BS*
- 3:45 p.m. - 4:00 p.m. **G45** **The Germanwings Air Crash in the French Alps (2015): Victim Identification**  
*Gwenola Drogou, DDS\**; *Charles E. Georget, PhD*; *Aime Conigliaro, MSc*
- 4:00 p.m. - 4:15 p.m. **G46** **Identification of Sex Using Melanoderm Lip Prints: A Clinical Study in Senegal**  
*Khalifa Dieng, DDS\**
- 4:15 p.m. - 4:30 p.m. **G47** **Identification of Charred Victims**  
*Aime Conigliaro, MSc\**; *Charles E. Georget, PhD*
- 4:30 p.m. - 4:45 p.m. **G48** **The Development of an Ultraviolet Photography Protocol for Composite Restorations**  
*Jennifer J. Jerome, DDS\**; *Paula C. Brumit, DDS*; *James P. Fancher, DDS, PhD*;  
*Roger D. Metcalf, DDS, JD*; *David R. Senn, DDS*

# PATHOLOGY/BIOLOGY



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## Wednesday

### Poster Session

- 11:30 a.m. - 1:00 p.m. **H1** **A Postmortem Microbiological Evaluation: Notable Infectious Diseases in Forensic Autopsies**  
*Fatih Gonen\**; *Safa Celik*; *Gulhan Yagmur*; *Muhammet Demir*; *Ziyaettin Erdem*; *Gulnaz T. Javan, PhD*
- 11:30 a.m. - 1:00 p.m. **H2** **I Like Your Shoes: The Utility of Barnacles (Crustacea: Cirripedia) in Forensic Investigations in a Marine Environment**  
*Danea Pirtle, BA\**; *Paola A. Magni, PhD*; *Ian Dadour, PhD*
- 11:30 a.m. - 1:00 p.m. **H3** **Ketamine and Blowflies: An Entomotoxicology Study**  
*Paola A. Magni, PhD\**; *Marco Pazzi, PhD*; *Jessica Droghi*; *Valentina Santoro, MSc*; *Marco Vincenti, MS*; *Ian Dadour, PhD*
- 11:30 a.m. - 1:00 p.m. **H4** **The Things You Find When Fishing: The Forensic Investigation of a Human Skull From the Sea**  
*Paola A. Magni, PhD\**; *Luca Massaro, MD*; *Matteo Borrini, PhD*; *Brian Morton, PhD*; *Jennifer Chaplin, PhD*; *Ian Dadour, PhD*
- 11:30 a.m. - 1:00 p.m. **H5** **An Analysis of Skin Potential Hydrogen (pH) and Oxidation Reduction Potential (Eh) on Decomposing Swine Carcasses**  
*Chelsie K.R. Mangca Valdez, BS\**; *Hannah Dibner, BA*; *David O. Carter, PhD*
- 11:30 a.m. - 1:00 p.m. **H6** **Small Asian Mongoose Scavenging Behavior on Oahu**  
*Hannah Dibner, BA\**; *Chelsie K.R. Mangca Valdez, BS*; *David O. Carter, PhD*
- 11:30 a.m. - 1:00 p.m. **H7** **A Case of Fatal Sepsis by *Clostridium perfringens* After a Hepatic Liver Biopsy of a Rare Neuroendocrine Tumor**  
*Gianluca Landi\**; *Giacomo Gualtieri*; *Irini A. Scordi-Bello, MD, PhD\**; *Daniel Aaron Kirsch, BS\**
- 11:30 a.m. - 1:00 p.m. **H8** **The Role of P2Y2 Receptors in the Pathogenesis of Hantavirus Cardiopulmonary Syndrome (HCPS)**  
*Casey P. Bitting, DO\**; *Virginie Bondu*; *Valerie Poland, BA*; *Sarah Lathrop, DVM, PhD*; *Daniel Lawrence, PhD*; *Tione Buranda, PhD*
- 11:30 a.m. - 1:00 p.m. **H9** **Teaching Morphological Species Identification to Forensic Science Students: Advantages, Problems, and Results**  
*Gregory Nigoghosian, BSc\**; *Lauren Weidner, PhD*; *Trevor I. Stamper, PhD*
- 11:30 a.m. - 1:00 p.m. **H10** **Predicting the Postmortem Submersion Interval (PMSI) Using the Microbiome of Waterlogged Bone**  
*Claire M. Cartozzo, MSFS\**; *Tal Simmons, PhD*; *Edward Boone, PhD*; *Baneshwar Singh, PhD*



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## PATHOLOGY/BIOLOGY

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- 11:30 a.m. - 1:00 p.m. **H11** **A Fatal Alligator Attack in South Carolina: A Case Report and Review of the Literature**  
*Joni B. Skipper, MD\**; *Lee M. Tormos, MD*; *S. Erin Presnell, MD*
- 11:30 a.m. - 1:00 p.m. **H12** **Pneumococcal Meningitis Associated With Phlegmonous Gastritis and HIV/AIDS**  
*Benjamin Mathis, MD\**; *Kenneth D. Hutchins, MD*
- 11:30 a.m. - 1:00 p.m. **H13** **The Application of Morphometrics to a Candidate Gene Approach for Identifying the Genetic Basis of Facial Morphology**  
*Bailey Harrington, MSc\**; *Ross Williams, PhD*
- 11:30 a.m. - 1:00 p.m. **H14** **Alternative Food Sources for Entomological Evidence: A Practical Tool for Crime Laboratories**  
*Lauren Weidner, PhD\**; *Gregory Nigoghosian, BSc*; *Caroline Garvin Hanau*
- 11:30 a.m. - 1:00 p.m. **H15** **Insects of Forensic Importance: Seasonality and Georeferencing in the Mexican Territory**  
*Carolina Núñez-Vázquez, PhD\**; *Lorena Valencia Caballero, PhD*;  
*Eduardo Vazquez-Santacruz*; *Daniela Alejandra Troncoso Rodríguez, BS*;  
*Isabel Salazar García, BS*; *Diego Pineda Martinez*
- 11:30 a.m. - 1:00 p.m. **H16** **A Deadly Blade of Grass: A Case Report of a Penetrating Head Injury and Its Sequelae**  
*Lauren Havrilla, DO\**; *Kimberly E. Janssen*
- 11:30 a.m. - 1:00 p.m. **H17** **A Postmortem Diagnosed Case of Malaria in a Non-Endemic Country**  
*Joana Rita Coelho Batista Silva, MD\**; *José M. Fernandes, MD*;  
*Virgínia Lopes, PhD*; *Susana Gimaraes*; *Sofia L. Frazão, MD*
- 11:30 a.m. - 1:00 p.m. **H18** **Forensic Sciences' Contribution to a Murder Case With an Incineration Attempt**  
*Joana Rita Coelho Batista Silva, MD\**; *Susana Raquel Félix Guimarães Ferreira, MA*;  
*Antía Simón, MA*; *Gonçalo Carnim*; *Sofia L. Frazão, MD*
- 11:30 a.m. - 1:00 p.m. **H19** **WITHDRAWN**
- 11:30 a.m. - 1:00 p.m. **H20** **Methods for Improvement of Allele Recovery With the GlobalFiler™ Assay**  
*Sheri J. Olson, MS*; *Allison Holt, PhD\**
- 11:30 a.m. - 1:00 p.m. **H21** **A Brain Teaser: Two Atypical Meningoencephalitis Cases in Human Immunodeficiency Virus (HIV) Patients**  
*Brooke Blake, MD\**; *Judith Aronson, MD*; *Gregory Berry, PhD*;  
*Gerald Campbell, PhD*; *Benjamin Gelman, PhD*; *Yiqin Zou, MBBS*
- 11:30 a.m. - 1:00 p.m. **H22** **It Came Back to Bite Him: A Case of Snakebite in Combination With Multiple Toxicities**  
*Christine Yoo, MD\**; *Julia Shields, MD*; *William C. Rodriguez III, PhD*;  
*David R. Fowler, MD*
- 11:30 a.m. - 1:00 p.m. **H23** **A Rare Snake Bite-Related Fatality: A Case Report**  
*Angelina I. Phillips, MD\**; *Tyrish Y. Page, MA*; *Ellen C. Riemer, MD, JD*



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## PATHOLOGY/BIOLOGY

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- 11:30 a.m. - 1:00 p.m. **H24** **WITHDRAWN**
- 11:30 a.m. - 1:00 p.m. **H25** **A Correlative Forensic Approach to the Dynamics of Decomposition in a Tropical Environment**  
*Jariangely Rivera\**
- 11:30 a.m. - 1:00 p.m. **H26** **An Autopsy Fingerprint Technique Using Fingerprint Powder**  
*Lee Morgan\**; *Marty Johnson, PhD*; *Jered B. Cornelison, PhD*; *Carolyn V. Isaac, PhD*;  
*Joyce L. deJong, DO*; *Joseph A. Prahlow, MD*
- 11:30 a.m. - 1:00 p.m. **H27** **The Collaboration of Forensic Sciences in a Particular Case of Murder**  
*Simone Onti, MD\**; *Sara Benedetti, MD*; *Silvia Boni, MD*; *Raffaella Inglese, MD*;  
*Paolo Frisoni, MD*; *Sara Chierici\**; *Francesco Maria Avato, MD*;  
*Rosa Maria Gaudio, MD*
- 11:30 a.m. - 1:00 p.m. **H28** **The Implementation of a Quality Improvement (QI) Program for Death Scene Photography in a Medical Examiner Office**  
*Kevin Jenkins, MD\**; *Paul V. Benson, MD*
- 11:30 a.m. - 1:00 p.m. **H29** **Facial Dissection: Two Case Reports Showing the Need for This Special Autopsy Technique**  
*Bruno M. Santos, MSc\**; *Lúisa Eiras, MD*; *Maria C. Mendonça, PhD*
- 11:30 a.m. - 1:00 p.m. **H30** **The Postmortem Diagnosis of Pulmonary Thromboembolism in Decomposed Corpses: Limitations and Errors of the Autoptic Techniques**  
*Isabella Aquila, MD\**; *Ciro Di Nunzio, MFS, PhD\**; *Pietrantonio Ricci*;  
*Paola Frati, PhD*; *Vittorio Fineschi, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H31** **A Cold Case in Fatal Precipitation: Suicide or Murder? The Role of Virtopsy in Forensic Cases of Exhumation**  
*Isabella Aquila, MD\**; *Carmela Falcone, MD*; *Oscar Tamburrini, PhD*;  
*Pietrantonio Ricci*

### Thursday — Session I

#### Pediatrics

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*Moderator: Michele T. Stauffenberg, MD*  
*Fulton County Medical Examiner's Office*  
*Atlanta, GA*

*Co-Moderator: Karl Williams, MD*  
*Pittsburgh, PA*

- 8:30 a.m. - 8:45 a.m. **H32** **Sudden Infant Death Syndrome (SIDS) and Tongue-Ties: Is There a Connection? Upper-Lip Frenum as a Predictive Marker for Unexpected and Unexplained Asphyxia in Infants**  
*Leslie A. Haller, DMD\**; *Theodore T. Brown, MD*





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## PATHOLOGY/BIOLOGY

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- 8:45 a.m. - 9:00 a.m. **H33** **Too Much, Too Little, Too Late: Postmortem Discovery of a Postpartum Endocrinomaly**  
*Erica J. Armstrong, MD\**
- 9:00 a.m. - 9:15 a.m. **H34** **Two Instances of Sudden and Unexpected Infant Death (SUID) in Siblings With a Shared Mutation in Plakophilin 2 (PKP2)**  
*Ashwyn Rajagopalan, MD\**; *Kris Cunningham, MD*; *Michael S. Pollanen, MD*
- 9:15 a.m. - 9:30 a.m. **H35** **Ectopic Pregnancy-Related Deaths at Autopsy in North Carolina: A 25-Year Retrospective Review**  
*Julie A. Hull, MD\**; *Deborah Radisch, MD*; *Michelle B. Aurelius, MD*
- 9:30 a.m. - 9:45 a.m. **H36** **Congenital Heart Defects (CHD) in Children: A Retrospective Review of Autopsies From the Cook County Medical Examiner's Office**  
*Serenella Serinelli, MD\**; *Steven M. White, MD, PhD*; *Lorenzo Gitto, MD*
- 9:45 a.m. - 10:00 a.m. **H37** **A Sudden Unexpected Infant Death (SUID) Associated With Coronary Arterial Fibromuscular Dysplasia**  
*Hannah Elyse Bielamowicz, MD\**; *Patrick E. Lantz, MD*
- 10:00 a.m. - 10:30 a.m. **Break**

### Trauma

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*Moderator: Kathryn C. Pinneri, MD*  
*Montgomery County Forensic Services Department*  
*Conroe, TX*

- 10:30 a.m. - 10:45 a.m. **H38** **The Effect of History and Context on Consensus in Diagnosis of Patterned Injuries of the Skin**  
*William R. Oliver, MD\**
- 10:45 a.m. - 11:00 a.m. **H39** **A Gunshot Wound Trajectory Analysis Using Forensic Animation to Establish the Relative Positions of the Shooter and Victim**  
*Aisling Galligan, MSc\**; *Craig T. Fries, BA*; *Jerry Wachtel, MBA*; *Judy Melinek, MD*
- 11:00 a.m. - 11:15 a.m. **H40** **Postmortem Imaging of Coronary Arteries for Natural and Violent Deaths**  
*Katarzyna Michaud, MD\**; *Silke Grabherr, PhD*; *Fabrice Dedouit, MD, PhD*
- 11:15 a.m. - 11:30 a.m. **H41** **Burns, a Home Fire, Strangulation, Intoxication, a Knife, and Three Cadavers: A Criminal Novel**  
*Jorge Costa Rosmaninho, MD*; *José Vieira de Sousa, MD*; *Antonio Padilha*; *João Manata, MSc*; *Joao E.S. Pinheiro, PhD, MD\**
- 11:30 a.m. - 11:45 a.m. **H42** **Synchrotron Studies of Spectrometric and Chemical Changes in Aging Bruises**  
*Stewart Walker, PhD\**; *Neil E. Langlois, MD*; *Josie P. Nunn, BSc*



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## PATHOLOGY/BIOLOGY

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- 11:45 a.m. - 12:00 p.m. **H43** **A Fatal Accidental Gunshot Wound During a Pursuit by Law Enforcement**  
*Tiffany O'Neill, DO\**; *Patrick E. Lantz, MD*
- 12:00 p.m. - 12:15 p.m. **Discussion**
- 12:15 p.m. - 1:30 p.m. **Lunch**

### Poster Session

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- 11:30 a.m. - 1:00 p.m. **H44** **The Diagnostic Accuracy of the Triad in Shaken Baby Syndrome: A Systematic Literature Review**  
*Anders Eriksson, MD, PhD\**; *Irene Edebert, PhD*; *Göran Elinder, PhD*;  
*Boubou Hallberg, PhD*; *Niels Lynoe, PhD*; *Frida Mowafi, PhD*; *Måns Rosen, PhD*;  
*Pia Sundgren, PhD*
- 11:30 a.m. - 1:00 p.m. **H45** **Child Abuse and Head Trauma: A Retrospective Analysis for Diagnosis**  
*Monica D'Amato, MD\**; *Francesco Lupariello, MD\**; *Serena Maria Curti, MD*;  
*Lucia Tattoli, PhD*; *Davide Santovito, MD*; *Giancarlo Di Vella, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H46** **Butyrylfentanyl and Acetylfentanyl Levels in Driving Under the Influence and Overdose Cases**  
*Katherine F. Maloney, MD\**; *Nicole A. Yarid, MD*; *Christine Giffin, MS*;  
*Colleen Corcoran, BS*; *Janinne Blank*; *Tara J. Mahar, MD*
- 11:30 a.m. - 1:00 p.m. **H47** **A Comparison of Postmortem Serum and Vitreous Cortisol Levels**  
*Lauren E. Dvorscak, MD\**; *Hannah A. Kastenbaum, MD*
- 11:30 a.m. - 1:00 p.m. **H48** **Trends in Opiate Deaths — Summit County, Ohio: January 2009-December 2015**  
*Kristy Waite, DO\**; *Amy Deeken, MD*; *Lisa J. Kohler, MD*
- 11:30 a.m. - 1:00 p.m. **H49** **Periosteal Tracheal Granuloma: A Fatal Complication of Tracheostomy in Infants**  
*Julia Lemarchand, MD\**; *Pauline Saint-Martin, MD, PhD*; *Thierry Lefrancq, MD*;  
*Camille Rerolle, MD*
- 11:30 a.m. - 1:00 p.m. **H50** **Sharp Force Homicides — Men Versus Women**  
*Julia Aliazzi\**; *Joseph A. Felo, DO*
- 11:30 a.m. - 1:00 p.m. **H51** **U-47700: A Synthetic Opioid of Unknown Significance**  
*Katherine F. Maloney, MD*; *Nicole A. Yarid, MD*; *Christine Giffin, MS*;  
*Colleen Corcoran, BS*; *Janinne Blank*; *Tara J. Mahar, MD\**
- 11:30 a.m. - 1:00 p.m. **H52** **Cardiopulmonary Resuscitation (CPR)-Related Fractures and Their Differences From Fractures Due to Blunt Force Trauma**  
*Lindsey Anne Grisham, BS\**; *Marco Ross, MD*
- 11:30 a.m. - 1:00 p.m. **H53** **An Unusual Mechanism of Fatal Pediatric Abusive Head Trauma (AHT): A Case Report**  
*Yanel M. De los Santos, BS\**; *Charles P. Kokes, MD*



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## PATHOLOGY/BIOLOGY

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- 11:30 a.m. - 1:00 p.m. **H54** **Postmortem Micro-Computed Tomography (micro-CT) Scanning of a Fetal Heart: A New Protocol for Determining Cause and Manner of Fetal Death**  
*Lucia Tattoli, PhD; Giovanni Botta, MD; Claudio M. Lombardi, MD; Vanessa Zambelli, PhD; Giancarlo Di Vella, MD, PhD\**
- 11:30 a.m. - 1:00 p.m. **H55** **A Case of Sudden Death in Twin Infants Given Melatonin Supplementation: A Challenging Interpretation of Postmortem Toxicology**  
*Alice Briones, DO\**
- 11:30 a.m. - 1:00 p.m. **H56** **It's Still the Wild West: A Case Report and Review of Arrow-Related Deaths in Oklahoma**  
*Kyla M. Jorgenson, MS; Cheryl Niblo, DO; Joshua Lanter, MD; Ross James Miller, MD\**
- 11:30 a.m. - 1:00 p.m. **H57** **The Long and Short of It: A Skeletal Trauma Analysis of a Gunshot Wound Suicide From a .22 Caliber Long Rifle Round Shot Through a Handgun**  
*Suzanne R. Utley, MD\*; Austin L. Polonitza, BS\*; Heather A. Walsh-Haney, PhD*
- 11:30 a.m. - 1:00 p.m. **H58** **Fatal Tree Surgeries**  
*Kathryn M. Strong, BA\*; Wendy M. Gunther, MD*
- 11:30 a.m. - 1:00 p.m. **H59** **Suicides Using Atypical Methodologies: A Case Series**  
*Carmen Coles, MD\*; Julia Shields, MD; Patricia Aronica, MD; Carol Allan, MD; Melissa A. Brassell, MD; Mary G. Ripple, MD; David R. Fowler, MD*
- 11:30 a.m. - 1:00 p.m. **H60** **Fatal Propeller Injuries in a Non-Marine Context: A Work-Related Accident by a Concrete Mixer**  
*Eloisa Maselli, MD\*; Alessandro Dell'Erba, PhD; Francesca Donno, MD; Roberto Vaglio*
- 11:30 a.m. - 1:00 p.m. **H61** **Severe Anogenital Injuries in Prepubescent Girls: Accidental Trauma Versus Sexual Abuse**  
*Monica D'Amato, MD; Caterina Petetta, MD\*; Luca Gastaldo, MD; Francesco Lupariello, MD; Serena Maria Curti, MD; Giancarlo Di Vella, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H62** **Victim Characteristics and Injury Patterns Associated With Intimate Partner Sharp Force Homicides**  
*Elizabeth A. Douglas, MD\**
- 11:30 a.m. - 1:00 p.m. **H63** **An Unexpected Toxicological Finding in an Infant: A Case of Chronic Intrauterine Fluoxetine Exposure**  
*Abigail J. Grande, MPH\*; Joseph A. Prahlow, MD*
- 11:30 a.m. - 1:00 p.m. **H64** **Bolt Gun Deaths — The Prevalence and Etiology in a Northern European Setting**  
*Torfinn Gustafsson, BM\*; Anders Eriksson, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H65** **Children's Hangings: A Case of an Accidental Event**  
*Diana Maltez Alves, MA\*; Luis Vaz Cardoso; Maria Carneiro de Sousa, PhD*

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- 11:30 a.m. - 1:00 p.m. **H66** **Quantifying Physiologic Macrophages and Hemosiderin in the Dura Mater of Infants**  
*Alison Krywaczyk, MD\**; *Elizabeth A. Bundock, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H67** **Emerging Trends: Deaths Associated With the Novel Synthetic Opioid U-47700 at the Tarrant County Medical Examiner's Office in Fort Worth, Texas**  
*Tasha Zemrus Greenberg, MD*; *Barrie Miller, MD\**; *Richard C. Fries, DO*;  
*Chris Heartsill, BS*; *Robert D. Johnson, PhD*
- 11:30 a.m. - 1:00 p.m. **H68** **The Dark Side of Sudden Infant Death Syndrome (SIDS): When Isovaleric Acidemia Leads to Unexpected Death**  
*Silvia Boca\**; *Santo Gratteri, MD*; *Maria Manno, MD*; *Pietrantonio Ricci*;  
*Isabella Aquila, MD\**
- 11:30 a.m. - 1:00 p.m. **H69** **The Dark Side of Mothering: A Case of Infanticide**  
*Isabella Aquila, MD\**; *Rita Mocciaro, MD, PhD*; *Vittorio Fineschi, MD, PhD*;  
*Paola Frati, PhD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **H70** **Pedestrian Road Trauma: The Role of the Judicial Inspection**  
*Isabella Aquila, MD\**; *Ciro Di Nunzio, MFS, PhD\**; *Maria Chiarelli, MD*;  
*Matteo Antonio Sacco, MD\**; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **H71** **Suicide or Suspension of a Corpse? The Correlation Between a Hanging Mark and the Suspension Tool Used**  
*Isabella Aquila, MD\**; *Silvia Boca*; *Francesca Pepe, MD*; *Ciro Di Nunzio, MFS, PhD\**;  
*Matteo Antonio Sacco, MD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **H72** **Histopathology of Drug Abuse: A Retrospective Study of 312 Cases**  
*Silvia D. Visonà, MD\**; *Matteo Moretti, MD*; *Andrea Calbi, MD*; *Giorgio Ardissino, MD*;  
*Tecla Maggi, BS*; *Luisa Andrello, MD*; *Antonio M.M. Osculati, MD*
- 11:30 a.m. - 1:00 p.m. **H73** **A Singular Case of Suicide Committed With a Homemade Firearm**  
*Francesca Maglietta, MD\**; *Furio Martino Patete*; *Margherita Neri, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H74** **Peculiar Suicidal Behavior: A Case of Multiple Fatal, Sharp, and Penetrating Wounds in the Neck**  
*Alessandro Di Luca, MD\**; *Gerardo Di Masi, MD*; *Vincenzo L. Pascali, MD, PhD*;  
*Antonio Oliva, MD, PhD*

## Pathology

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*Moderator: Jeffery K. Tomberlin, PhD*  
*Texas A&M University*  
*Department of Entomology*  
*College Station, TX*

- 1:30 p.m. - 1:45 p.m. **H75** **Correcting the Count: Improving Vital Statistics Data Regarding Deaths Related to Obesity**  
*Brandi C. McCleskey, MD\**; *Gregory G. Davis, MD*; *Daniel W. Dye, MD*



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## PATHOLOGY/BIOLOGY

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- 1:45 p.m. - 2:00 p.m. **H76** **An Unusual Sudden Death Due to an Invasive Hydatidiform Mole Responsible for a Uterine Rupture and a Massive Hemoperitoneum**  
*Marie Barbesier, MD\**; *Anne-Sophie Advenier, MD*; *François Golfier, MD*;  
*Laurent Fanton, MD*
- 2:00 p.m. - 2:15 p.m. **H77** **Is Fluid in the Sphenoid Sinus a Valid Indicator of Drowning?**  
*Sherry Jilinski, MD\**; *David R. Fowler, MD*
- 2:15 p.m. - 2:30 p.m. **H78** **Staining in Firearm Barrels: A Fundamental Study**  
*Christian Schyma\**; *Kristina Bauer, MD*; *Julia Brünig*; *Nicole Schwendener, HF*;  
*Rolf Müller*; *Burkhard Madea*; *Christian Jackowski, MD*
- 2:30 p.m. - 2:45 p.m. **H79** **Identification of Bodies Via Unique Serial Numbers on Implanted Medical Devices**  
*Melissa M. Blessing, DO\**; *Peter T. Lin, MD*
- 2:45 p.m. - 3:00 p.m. **H80** **Ischemic Heart Disease (IHD) as a Prime Cause of Sudden Cardiac Death (SCD) in Egypt**  
*Nora Fawzy Fnon, MSc\**; *Hanan H. Hassan, MD*
- 3:00 p.m. - 3:30 p.m. **Break**

### Postmortem Interval

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*Moderator: Jennifer L. Pechal, PhD*  
*Michigan State University*  
*East Lansing, MI*

*Co-Moderator: M. Eric Benbow, PhD*  
*Depts of Entomology & Osteopathic*  
*Medical Specialties*  
*East Lansing, MI*

- 3:30 p.m. - 3:45 p.m. **H81** **From Oxidative Stress to Proteins: Postmortem Interval Estimation Based on Biochemical Parameters**  
*Sara C. Zapico, PhD\**; *Paula Núñez, PhD*; *M. Ángeles Villaronga, PhD*;  
*Sofía T. Menéndez, PhD*; *Douglas H. Ubelaker, PhD*;  
*Juana M. García-Pedrero, PhD*
- 3:45 p.m. - 4:00 p.m. **H82** **Development of a Statistical Model to Determine the Postmortem Interval (PMI) Using the Human Skin Necro-Microbiome**  
*Nathan H. Lents, PhD\**; *Hunter R. Johnson, PhD*; *Donovan Trinidad, BS*;  
*Zenab Khan, BS*; *Jennifer M. DeBruyn, PhD*
- 4:00 p.m. - 4:15 p.m. **H83** **Interpretation of Postmortem Vitreous Concentrations of Sodium and Chloride**  
*Henrik Druid, MD, PhD*; *Sören B. Berg*; *Kanar Alkass, BS*; *Brita Zilg, PhD\**
- 4:15 p.m. - 4:30 p.m. **H84** **Bacteria as a Postmortem Interval (PMI) Clock? Successive Bacterial Colonization of Pork and Its Implications for Forensic Investigations**  
*Jessica Handke, MSc*; *Dieudonné J. van der Meer, MSc*; *Graham A. Williams, PhD*;  
*Martin Carr, PhD*; *Noemi Procopio, MSc*; *Michael Buckley, PhD*; *Anna Williams, PhD\**

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- 4:30 p.m. - 4:45 p.m. **H85** **Using Increased Lead Impedance Information Obtained During Interrogation of Cardiac Devices in Decomposed Bodies to Narrow Time of Death**  
*Ellen Moffatt, MD\**; *Robert Hayward, MD*; *Rana Khan, BS*; *Anne Bedigian, BS*;  
*Benjamin Colburn, MS*; *Nina Clark, BS*; *Philip Ursell, MD*; *Jeffrey Olgin, MD*;  
*Amy P. Hart, MD*; *Michael Hunter, MD*; *Harminder S. Narula, MD*; *Jennifer Park, DO*;  
*Zian Tseng, MD*
- 4:45 p.m. - 5:00 p.m. **H86** **The Design and Validation of a Finite-Element Body Cooling Model for Calculating the Postmortem Interval**  
*Maurice Aalders\**; *Harry N. Van Venrooij, MD*; *Richelle J.M. Hoveling, MSc*

## Thursday — Session II

### Jay Dix Memorial Bonus Day

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*Moderator: Michael A. Graham, MD*  
*Saint Louis University School of Medicine*  
*Division of Forensic Pathology*  
*St. Louis, MO*

- 9:00 a.m. - 9:10 a.m. **H87** **Jay Dix Memorial Bonus Day Introduction**  
*Michael A. Graham, MD\**
- 9:10 a.m. - 10:00 a.m. **H87** **Electrocution**  
*Randy L. Hanzlick, MD\**
- 10:00 a.m. - 10:10 a.m. **Break**
- 10:10 a.m. - 11:00 a.m. **H87** **Firearm Injuries**  
*Joseph A. Prahlow, MD\**
- 11:00 a.m. - 11:50 a.m. **H87** **Stimulants: Coke to Khat, Speed to Spice**  
*Jonathan Hayes, MD\**
- 11:50 a.m. - 2:00 p.m. **Lunch**
- 2:00 p.m. - 2:50 p.m. **H87** **Investigation of Deaths Due to Sedative Agents**  
*Tracey S. Corey, MD\**
- 2:50 p.m. - 3:00 p.m. **Break**
- 3:00 p.m. - 3:50 p.m. **H87** **Investigation of Deaths Due to Asphyxia, Sexual Crimes, and Autoeroticism**  
*Stephen J. Cina, MD\**



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## Friday — Session I

### Pathology/Biology

*Moderator:* Jane W. Turner, PhD, MD  
St. Louis City Medical Examiner's Office  
St. Louis, MO

*Co-Moderator:* Priya Banerjee, MD  
Providence, RI

- 8:30 a.m. - 8:45 a.m.    **H88**    **Congenital Transmesenteric Herniation: A Case Report Illustrating a Rare Form of Internal Herniation Resulting in Small Bowel Strangulation**  
*Michèle Bentz\**; *Adam Berkowicz, PhD*
- 8:45 a.m. - 9:00 a.m.    **H89**    **The Epidemiology of Suicides in Allegheny County, Pennsylvania: A 10-Year Retrospective Review (2000-2009) and Comparison to a Previous Review (1990-1999)**  
*Tanner Bartholow, MD\**; *Nader Shakir, BSc*; *Patricia Rekiel, BS*;  
*Todd M. Luckasevic, DO*; *Karl E. Williams, MD*
- 9:00 a.m. - 9:15 a.m.    **H90**    **Diurnal Oviposition Timing of Blow Flies and DNA Identification of Early Arrivers**  
*Kristi Bugajski, PhD\**; *Beth Scaglione Sewell, PhD*
- 9:15 a.m. - 9:30 a.m.    **H91**    **Validation of Punitive Markers of Age in Immature *Lucilia sericata* (Meigen) (Diptera: Calliphoridae)**  
*Ashleigh M. Faris, MA\**; *Jonathan Parrott, PhD*; *Aaron M. Tarone, PhD*
- 9:30 a.m. - 9:45 a.m.    **H92**    **Morphological Comparison of Insect Artifacts From Six Species of Necrophagous Flies**  
*Andrew McGregor, MS*; *David B. Rivers, PhD\**
- 9:45 a.m. - 10:00 a.m.    **H93**    **Forensic Implications of Multi-Species Blow Fly Larval Masses and Their Associated Microbiomes**  
*Courtney Weatherbee, BS\**; *Jennifer L. Pechal, PhD*; *McKinley Brewer, BS*;  
*Trevor I. Stamper, PhD*; *M. Eric Benbow, PhD*
- 10:00 a.m. - 10:30 a.m.    **Break**

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## Biology

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*Moderator: Heather R. Jordan, PhD  
Mississippi State University  
Mississippi State, MS*

*Co-Moderator: Melissa M. Blessing, DO  
Mayo Clinic  
Rochester, MN*

- 10:30 a.m. - 10:45 a.m.    **H94**    **Determination of Cause of Death in Criminal Cases Using Thanatobiome**  
*Gulnaz T. Javan, PhD\**; *Frances Amber Hall, BA*; *Sheree J. Finley, MS*;  
*Jeremy E. Wilkinson, MS*
- 10:45 a.m. - 11:00 a.m.    **H95**    **Embalmed Human Cadavers Are Not Sterile: The Impact of Two Embalming Methods on the Microbiome of Human Cadavers**  
*Amelia A. Bussell, MSFS\**; *Cynthia Cornelissen, PhD*; *Richard Sikon, MS*;  
*Baneshwar Singh, PhD\**
- 11:00 a.m. - 11:15 a.m.    **H96**    **Internal Microbial Community Translocation Throughout Decomposition in a Controlled Vertebrate Model**  
*Zachary M. Burcham, BS\**; *Jennifer L. Pechal, PhD*; *Jason Rosch, PhD*;  
*Jeffrey L. Bose, PhD*; *Carl J. Schmidt, MD*; *M. Eric Benbow, PhD*;  
*Heather R. Jordan, PhD*
- 11:15 a.m. - 11:30 a.m.    **H97**    **Postmortem Microbiome Changes During Thaw for Autopsy: Two Pediatric Case Studies**  
*Jennifer L. Pechal, PhD\**; *Carl J. Schmidt, MD*; *Heather R. Jordan, PhD*;  
*McKinley Brewer, BS*; *M. Eric Benbow, PhD*
- 11:30 a.m. - 11:45 a.m.    **H98**    **Trace Evidence in Microbial Forensic Study Through Cluster Analysis**  
*Lingling An, PhD\**; *Kyle Carter, MS*
- 11:45 a.m. - 12:00 p.m.    **H99**    **Storage Conditions and Time Alter the Association of Known and Questioned Soil Evidence Derived Via Next Generation Bacterial DNA Profiles**  
*Alyssa J. Badgley, MS\**; *David R. Foran, PhD*
- 12:00 p.m. - 1:00 p.m.    **Lunch**

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## Poster Session

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- 11:30 a.m. - 1:00 p.m.    **H100**    **Conduction Disruption: A Rare Case of Sudden Death as the Initial Presentation of Metastatic Renal Cell Carcinoma**  
*Stacey L. Reed, DO\**; *Candice Brem, MD*; *Farshaad Bilimoria, MD*; *Pradeep Sethi, MD*;  
*Todd Luckasevic, DO*
- 11:30 a.m. - 1:00 p.m.    **H101**    **Fatal Complications of Aesthetic Techniques: Gluteal Liposculpture**  
*Kenneth D. Hutchins, MD*; *Fintan Garavan, PhD, MD*; *Katherine L. Kenerson, MD*;  
*E. O. Lew, MD*; *Amy V. Rapkiewicz, MD\**





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- 11:30 a.m. - 1:00 p.m. **H102 Systemic Air Embolism Associated With Upper Gastrointestinal Endoscopy in a Patient With Whipple Procedure: An Unexpected Finding Diagnosed on a Postmortem Computed Tomography (CT) Scan**  
*Zabiullah Ali, MD\**; *Jack M. Titus, MD*; *David R. Fowler, MD*
- 11:30 a.m. - 1:00 p.m. **H103 Subtle Microscopically Abnormal Cardiomyopathies (SMAC): An Analysis of Ten Cases**  
*Kona Williams, MD\**; *Kris Cunningham, MD*
- 11:30 a.m. - 1:00 p.m. **H104 Two Fatal Cases of Posterior Reversible Encephalopathy Syndrome (PRES)**  
*Shannon Crook, MD\**; *Meredith H. Frame, MD*; *M. Gregory Balko, MD*;  
*Gregory J. Davis, MD*
- 11:30 a.m. - 1:00 p.m. **H105 Multiple Symmetric Lipomatosis**  
*Patrick M. Kosciuk, MD*; *Samuel Prahlow\**; *Joseph A. Prahlow, MD*
- 11:30 a.m. - 1:00 p.m. **H106 Death Due to a Rare Complication of Colonoscopy and the Potential Medicolegal Implications**  
*Katie Thompson, MD\**; *Michael Stier, MD*
- 11:30 a.m. - 1:00 p.m. **H107 Death Due to Bowel Obstruction Secondary to Raw Poppy Seed Ingestion**  
*Leah M. Schuppener, DO\**; *Robert F. Corliss, MD*
- 11:30 a.m. - 1:00 p.m. **H108 Dead in a Hot Bathtub: A Singular Case of Heat-Related Death**  
*Mauro A. Ciavarella\**; *Monica Salerno, MD, PhD\**; *Palmira Fortarezza, MS*;  
*Cristoforo Pomara, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H109 Pressure Ulcer-Related Osteomyelitis in a Fatally Neglected Adult**  
*Ashwyn Rajagopalan, MD\**; *Michael S. Pollanen, MD*
- 11:30 a.m. - 1:00 p.m. **H110 Bifid Cardiac Apex and Sudden Death: An Unusual Case and Review of the Literature**  
*Ester de Luca, MD\**; *Debora De Bartolo, MD\**; *Vincenzo Arena, MD*;  
*Francesco Ausania, MD*; *Santo Gratteri, MD*; *Pietrantonio Ricci*
- 11:30 a.m. - 1:00 p.m. **H111 Identity Crisis: The Case of a Wormian Bone Interpreted as a Traumatic Skull Fracture**  
*Shelley Choudhury, BS\**; *Karen E. Chancellor, MD*
- 11:30 a.m. - 1:00 p.m. **H112 Deaths Due to Post-Intubation Tracheal Stenosis: A Clinical History and Autopsy Findings in Three Cases**  
*Heather I. Chen, BA\**; *Brandy Shattuck, MD*; *Joyce L. deJong, DO*
- 11:30 a.m. - 1:00 p.m. **H113 Sudden and Unexpected Death During Sexual Activity Due to a Glial Cyst of the Pineal Gland**  
*Rosario Barranco\**; *Sara Lo Pinto, MD\**; *Maria Cucci, MD\**; *Fiorella Caputo, MD\**;  
*Francesca Fossati, MD\**; *Giulio Fraternali Orcioni, MD\**; *Francesco Ventura, MD\**



# PATHOLOGY/BIOLOGY

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- 11:30 a.m. - 1:00 p.m. **H114 Sudden Death Secondary to an Undiagnosed B-Cell Lymphoma of the Hypopharynx and Infiltration of the Inferior Constrictor Muscle**  
*Sara Lo Pinto, MD\**; *Rosario Barranco\**; *Maria Cucci, MD\**; *Fiorella Caputo, MD\**; *Francesca Fossati, MD\**; *Giulio Fraternali Orcioni, MD\**; *Francesco Ventura, MD\**
- 11:30 a.m. - 1:00 p.m. **H115 Burn Injury: A Case Report and an Experimental Approach**  
*Ankin Güvencel, MD\**; *Anders Eriksson, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **H116 Optic Nerve Sheath Hemorrhages Associated With Non-Traumatic Subdural and Subarachnoid Hemorrhage: A Case of Undiagnosed Congenital Hydrocephalus**  
*Mark J. Shuman, MD*; *Kristen Thomas, MD\**
- 11:30 a.m. - 1:00 p.m. **H117 Hemothorax and Hemopericardium in a Cooked State Due to Burns Secondary to Traumatic Chest Injuries: A Case Report**  
*Nilesh K. Tumram, MD\**; *Vipul Namdeorao Ambade, MD*; *Pradeep G. Dixit, MD*
- 11:30 a.m. - 1:00 p.m. **H118 Unusual Changes of the Lungs After Inhalation and Chemical Burning With Bleach**  
*Baiyang Xu, MD\**
- 11:30 a.m. - 1:00 p.m. **H119 Delayed Post-Hypoxic Leukoencephalopathy (DPHL)**  
*Kenneth D. Hutchins, MD\**; *Mark J. Shuman, MD*
- 11:30 a.m. - 1:00 p.m. **H120 Dying to Be Beautiful: Fatal Fat Emboli After Liposuction and Brazilian Butt Lift Procedure**  
*Farshaad Bilimoria, MD\**; *Stacey L. Reed, DO*; *Todd M. Luckasevic, DO*; *Karl E. Williams, MD*
- 11:30 a.m. - 1:00 p.m. **H121 The Cane Sword: A Case Study**  
*Timothy Wysozan, BS\**; *Joseph A. Prahlow, MD*
- 11:30 a.m. - 1:00 p.m. **H122 Suicide by Trash Compactor**  
*Carolyn A. Kappen, MD\**; *Hannah C. Jarvis, MRCS\**; *Gianluca Landi*
- 11:30 a.m. - 1:00 p.m. **H123 Spontaneous Coronary Artery Dissection as Cause of Death in the Postpartum Period: A Case Report**  
*Sara L.M. Vilão, MD\**; *Débora Lourenço, MD*; *Patricia Jardim*; *Maria Cristina Ribeiro, MD*
- 11:30 a.m. - 1:00 p.m. **H124 A Selfie Stick Shotgun Suicide**  
*Brandee L. Winkler, BS\**; *Wendy M. Gunther, MD*
- 11:30 a.m. - 1:00 p.m. **H125 Acute Exacerbation of Asymptomatic Idiopathic Pulmonary Fibrosis After Radical Resection of Rectal Carcinoma: A Case Report**  
*Hongmei Dong\**; *Ji Zhang, PhD*; *Wei Lin, BS*; *Mingjie Qiu, BS*
- 11:30 a.m. - 1:00 p.m. **H126 Sexual Assaults in Geneva, Switzerland (2006-2012): Forensic Doctor Usefulness**  
*Romano La Harpe, MD\**; *Sandra E. Burkhardt, MD*



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- 11:30 a.m. - 1:00 p.m. **H127** **The Loss of Dystrophin: An Immunohistochemical Study for Postmortem Diagnosis of Early Myocardial Ischemia**  
*Cristina Mondello\**; Giovanni Bartoloni, MD; Luigi Cardia; Francesca Giuffrida;  
Giulio Cardia; Elvira Ventura Spagnolo

### Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy

*Moderator:* David O. Carter, PhD  
Chaminade University of Honolulu  
Forensic Sciences Unit  
Honolulu, HI

*Co-Moderator:* Eriek S. Hansen, PhD  
Colorado Mesa University  
Dept Biological Science  
Grand Junction, CO

- 1:00 p.m. - 1:15 p.m. **A122** **Postmortem Interval Estimation Using the Blackened Osteocyte Method**  
*Sarah Long, BS\**; Lynne S. Bell, PhD; Joan A. Bytheway, PhD
- 1:15 p.m. - 1:30 p.m. **H128** **Changes in Bacterial Community Structure and the Estimation of Long-Term Postmortem Interval (PMI)**  
*Michael S. Woolf, MS\**; Vanessa Sufrin, MS; Tal Simmons, PhD;  
Baneshwar Singh, PhD\*
- 1:30 p.m. - 1:45 p.m. **E110** **Bioelectrical Impedance Analysis as a Technique for Estimating the Postmortem Interval (PMI) in Human Remains**  
*Eriek S. Hansen, PhD\**; Melissa A. Connor, PhD; Christiane Baigent, MSc
- 1:45 p.m. - 2:00 p.m. **E111** **Measuring Desiccation Using Qualitative Changes**  
*Melissa A. Connor, PhD\**; Christiane Baigent, MSc; Eriek S. Hansen, PhD
- 2:00 p.m. - 2:15 p.m. **A123** **A New Approach to Estimating Accumulated Degree Days (ADD): Using Binary Observations From Various Regions of the Body With Random Forest Modeling (RFM) and Geographic Information Systems (GIS)**  
*Michael W. Kenyhercz, PhD\**; Dawnie W. Steadman, PhD; Annemarie C. Gundel, BA
- 2:15 p.m. - 2:30 p.m. **A124** **Validation of the Total Body Score/Accumulated Degree Days (TBS/ADD) Equation at 100, 300, 500, and 1,000 ADD on 30 Human Subjects With a Known Postmortem Interval (PMI) From Three Human Decomposition Facilities**  
*Joan A. Bytheway, PhD\**; Nichole Miller; Dawnie W. Steadman, PhD;  
Kelly Sauerwein, MA; Daniel J. Wescott, PhD; Chaunesey Clemmons, BA;  
Devora S. Gleiber, BA; Chloe P. McDanel, MA; Lauren A. Meckel, MA
- 2:30 p.m. - 2:45 p.m. **H129** **Myiasis and Death: Factors and Complications Related to Estimating Time of Colonization After Antemortem Fly Colonization Followed by Death**  
*Michelle R. Sanford, PhD\**; Darshan R. Phatak, MD; Alex John, MD;  
Michael R. Condron II, MD
- 2:45 p.m. - 3:00 p.m. **Break**

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## Multidisciplinary Session: Anthropology Session II/General Session II/Pathology/Biology Session I — Forensic Taphonomy

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*Moderator: Elizabeth A. Miller, PhD  
California State University, Los Angeles  
Dept of Anthropology  
Los Angeles, CA*

*Co-Moderator: Audrey L. Meehan, BS  
Ewa Beach, HI*

- 3:00 p.m. - 3:15 p.m.    **H130**    **Coupled Microbiome and Insect Evidence in Death Investigations**  
*M. Eric Benbow, PhD\**; *Jennifer L. Pechal, PhD*; *Heather R. Jordan, PhD*;  
*McKinley Brewer, BS*; *Carl J. Schmidt, MD*
- 3:15 p.m. - 3:30 p.m.    **E112**    **WITHDRAWN**
- 3:30 p.m. - 3:45 p.m.    **H131**    **Analyses of Necrobiome Structure and Function for Utility in Forensic Science**  
*Heather R. Jordan, PhD\**; *Zachary M. Burcham, BS*; *Jeffrey L. Bose, PhD*;  
*Jennifer L. Pechal, PhD*; *Jason Rosch, PhD*; *Carl J. Schmidt, MD*; *M. Eric Benbow, PhD*
- 3:45 p.m. - 4:00 p.m.    **E113**    **What Forensic Archaeology and Forensic Taphonomy Can Offer to Medicolegal Death Investigation**  
*Dennis C. Dirkmaat, PhD\**; *Luis L. Cabo, MS*
- 4:00 p.m. - 4:15 p.m.    **E114**    **Trauma and/or Taphonomy? Analysis of Peri-Mortem Trauma Observed in a Post-Battle World War II Cemetery and the Complications of Taphonomy in Discerning Trauma**  
*Kristen N. Baker, MA\**; *Hillary R. Parsons, PhD\**
- 4:15 p.m. - 4:30 p.m.    **A125**    **Vulture Scavenging of Small-Sized Pig Carcasses in Central Florida: Utilizing Geographic Information Systems (GIS) to Analyze Site Variables Affecting Skeletal Dispersal**  
*John J. Schultz, PhD\**; *Alexander T. Mitchell*
- 4:30 p.m. - 4:45 p.m.    **A126**    **Differential Temperatures of the Human Body and Fire**  
*Elayne J. Pope, PhD\**; *Amanda Williams, MA*; *Alison Galloway, PhD*
- 4:45 p.m. - 5:00 p.m.    **H132**    **Digging Up the Past — An Atypical Medical Examiner's Case**  
*Haley K. Scott, BSc\**; *Joseph T. Hefner, PhD*; *Philip R. Croft, MD, JD*



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# PATHOLOGY/BIOLOGY

## Friday — Session II

### Multidisciplinary Session: Pathology/Biology Session II/Toxicology — Postmortem Forensic Toxicology

*Moderator: Timothy P. Rohrig, PhD  
Regional Forensic Science Ctr  
Wichita, KS*

*Co-Moderator: Giancarlo Di Vella, MD, PhD  
University of Torino  
Department Public Health Sciences  
Torino, ITALY*

- 8:30 a.m. - 8:45 a.m.    **H133**    **Evaluation of Acute Alcohol Intoxication as the Primary Cause of Death: A Diagnostic Challenge for Forensic Pathologists**  
*Rong Li, MD; Feng Chen, MD\*; Jianwen Wang, MD; Xiang Zhang, MD\*;  
Rebecca Jufer Phipps, PhD; Eleanor Thomas; David R. Fowler, MD; Ling Li, MD\**
- 8:45 a.m. - 9:00 a.m.    **K54**    **False Positive Enzymatic Alcohol Results: Two Cases From 2014**  
*Sandra C. Bishop-Freeman, PhD\*; Robert H. Powers, PhD; Lisa Mayhew, BS;  
Ruth E. Winecker, PhD*
- 9:00 a.m. - 9:15 a.m.    **H134**    **Deaths From Combined Methamphetamine and Heroin Use in Denver: 2005-2016**  
*Andrew Hanosh, MD\*; Meredith A. Frank, MD; Krista L. Timm, MD;  
James Louis Caruso, MD*
- 9:15 a.m. - 9:30 a.m.    **K55**    **The Increased Prevalence of Illicit Synthetic Opioids in Postmortem Casework at the New York City Office of Chief Medical Examiner (NYC OCME) From January to June, 2016**  
*Gail Audrey Ann Cooper, PhD\**
- 9:30 a.m. - 9:45 a.m.    **K56**    **The Use of Liquid Chromatography/Time-Of-Flight (LC/TOF) Data-Mining Techniques to Evaluate Evidence of Use of Dipyrone and Levamisole in Conjunction With Fentanyl and Other Illicit Recreational Drugs**  
*Brian Holsey, BS\*; Sherri L. Kacinko, PhD; Barry K. Logan, PhD*
- 9:45 a.m. - 10:00 a.m.    **H135**    **Forensic Applications of Postmortem Pharmacogenomics**  
*Jeffrey M. Jentzen, MD\**
- 10:00 a.m. - 10:15 a.m.    **Break**

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## Multidisciplinary Session: Pathology/Biology Session II/Toxicology — Postmortem Forensic Toxicology (continued)

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*Moderator: Giancarlo Di Vella, MD, PhD  
University of Torino  
Department of Public Health Sciences  
Torino, ITALY*

*Co-Moderator: William R. Johnson, BA  
Wisconsin State Lab of Hygiene  
Toxicology Section  
Madison, WI*

- 10:15 a.m. - 10:30 a.m.    **K57**    **The Use of a Forensic Case Management System to Deliver Evidence-Based Science and Research**  
*Dimitri Gerostamoulos\*<sup>\*</sup>; Jennifer L. Pilgrim*
- 10:30 a.m. - 10:45 a.m.    **K58**    **Fluoxetine Toxicity — Pharmacogenomics, Drug Interactions, and Dosage Converge to Create the Perfect Storm: A Case Report**  
*Thomas C. Kupiec, PhD\*<sup>\*</sup>; Min Wei, PhD; Zeil Rosenberg, MD; Debra L. Lyon, JD*
- 10:45 a.m. - 11:00 a.m.    **H136**    **Multi-Site Aspects of Postmortem Redistribution (PMR) and Their Combination With Pathological Findings to Determine Cause of Death (COD) in Suspected Diazepam, Methadone, and Morphine Drug-Related Cases**  
*Eric Lemaire, MD, PhD\*<sup>\*</sup>; Carl J. Schmidt, MD*
- 11:00 a.m. - 11:15 a.m.    **H137**    **Postmortem Detection of Despropionyl Fentanyl (DPF) in Drug-Related Deaths**  
*Peter Mazari, MD\*<sup>\*</sup>; Rebecca Jufer Phipps, PhD; Mary G. Ripple, MD;  
David R. Fowler, MD*
- 11:15 a.m. - 11:30 a.m.    **H138**    **Drop Dead Again: Surge of Deaths Attributed to Fentanyl Analogues in Cook County, Illinois**  
*Kimberly M. Golden, MD\*<sup>\*</sup>; Peter J. Koin, PhD; Ponni Arunkumar, MD;  
Adrienne Segovia, MD*
- 11:30 a.m. - 11:45 a.m.    **K59**    **The First Case of Loperamide Toxicity in Jefferson County, Alabama**  
*Daniel Atherton\*<sup>\*</sup>; Daniel W. Dye, MD; Brandi C. McCleskey, MD; Rachel C. Beck, PhD*
- 11:45 a.m. - 12:00 p.m.    **K60**    **Postmortem Tissue Distribution of U-47700 Following Lethal Intoxication and Novel Scheduling in the State of Ohio**  
*Eric S. Lavins, BS\*<sup>\*</sup>; Cassandra L. Clyde, MFS; Douglas E. Rohde, MS;  
Kevin G. Shanks, MS; Chetan H. Soni, MS; Ian T. Brooker, BS; Erin C. Reed, JD;  
John J. Kucmanic, BS; Erin M. Worrell, BSc; Leslie E. Lemmerbrock, BS;  
Megan E. Fowler, BS; Joseph A. Felo, DO; Andrea McCollum, MD;  
David A. Engelhart, PhD; Harold E. Schueler, PhD; Thomas P. Gilson, MD*



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# PATHOLOGY/BIOLOGY

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## Saturday

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### Natural and More...

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*Moderator: David O. Carter, PhD  
Chaminade University of Honolulu  
Forensic Sciences Unit  
Honolulu, HI*

- 8:30 a.m. - 8:45 a.m.    **H139**    **Acute Pulmonary Emphysema (APE) in an Incomplete Hanging**  
*Claudia Castiglioni\*; Fiorella Lanzillotta, MD; Tony Fracasso, MD, PhD*
- 8:45 a.m. - 9:00 a.m.    **H140**    **Lethal Masturbation of a Teenager Suffering From a Long QT (LQTS) Syndrome Type 8 With a Newly Discovered CACNA1C Gene Mutation**  
*Philippe Cathala, MD\*; Pascal Amedro, MD; Veronique Fressart, MD; Olivier Mathieu, PhD; Pierre-Antoine Peyron, MD; Eric Baccino, MD*
- 9:00 a.m. - 9:15 a.m.    **H141**    **A Rare Case of Fatal Retropharyngeal Hemorrhage in a Patient With Neurofibromatosis Type 1 (NF1)**  
*Pierre-Antoine Peyron, MD\*; Michael S. Pollanen, MD*
- 9:15 a.m. - 9:30 a.m.    **H142**    **Agenesis of the Thyroid Cartilage Superior Cornua: Implications for Autopsy**  
*Sharon M. Derrick, PhD\*; Kathryn C. Pinneri, MD; Deborah C. Pinto, PhD*
- 9:30 a.m. - 9:45 a.m.    **H143**    **Pericardial Rupture After Mechanical Resuscitation With the Lund University Cardiopulmonary Assist System, 2<sup>nd</sup> Generation (LUCAS<sup>TM</sup>2)**  
*Christelle Lardi, MD\*; Tony Fracasso, MD, PhD*
- 9:45 a.m. - 10:00 a.m.    **H144**    **A Staged Hanging: Postmortem Suspension of a Homicide Victim**  
*Lauren N. Huddle, MD\*; Michael Hays, MD; Tracy Shipe, DO; William T. Gormley, MD, PhD*
- 10:00 a.m. - 10:15 a.m.       **Break**

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### Natural and More... (continued)

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*Moderator: David O. Carter, PhD  
Chaminade University of Honolulu  
Forensic Sciences Unit  
Honolulu, HI*

- 10:15 a.m. - 10:30 a.m.    **H145**    **An Autopsy Study of Suicidal Deaths — Trends in South India**  
*Prashantha Bhagavath, MD\*; Vikram Palimar, MD; Haneil Dsouza, MD*

# PATHOLOGY/BIOLOGY



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- 10:30 a.m. - 10:45 a.m.    **H146**    **Talin as a Potential Protein Biomarker in Forensic Investigations**  
*Sait Özsoy, MD; Gulnaz T. Javan, PhD; Zahra Campbell; Sheree J. Finley, MS\**
- 10:45 a.m. - 11:00 a.m.    **H147**    **A Staged Crime Scene Determination: Correlation of Forensic Evidence**  
*Francesco Lupariello, MD\*; Lucia Tattoli, PhD; Sara Iacopini, MD\*;  
Ignazio Grattagliano, PsyD; Giovanni Abbattista, PhD; Giancarlo Di Vella, MD, PhD*
- 11:00 a.m. - 11:15 a.m.    **H148**    **Mimic of Pediatric Head Trauma: Bipartite Parietal Bone in Pediatric Cases**  
*Richard C. Fries, DO\*; Dana Austin, PhD; Marc A. Krouse, MD;  
Tasha Zemrus Greenberg, MD; Susan J. Roe, MD; Nizam Peerwani, MD*
- 11:15 a.m. - 11:30 a.m.    **H149**    **Two Cases of Fatal Pulmonary Tumor Thrombotic Microangiopathy**  
*Danielle Armstrong, DO\*; Joseph M. Guileyardo, MD*
- 11:30 a.m. - 11:45 a.m.    **H150**    **Sudden Death Related to Aortic Pathology — A Comprehensive Diagnostic Approach**  
*Katarzyna Michaud, MD\*; Hans H. de Boer, MD, PhD; Fabrice Dedouit, MD, PhD;  
Allard van der Wal, MD, PhD*
- 11:45 a.m. - 12:00 p.m.       **Discussion**





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# PSYCHIATRY & BEHAVIORAL SCIENCE

## Wednesday

### Poster Session

- 11:30 a.m. - 1:00 p.m. **I1** **Child Abuse and Neglect Associated With Parental Paranoid Psychotic Disorder**  
*Serena Maria Curti, MD\**; *Monica D'Amato, MD*; *Francesco Lupariello, MD*;  
*Sara S. Racalbutto, PsyD*; *Ignazio Grattagliano, PsyD*; *Giancarlo Di Vella, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **I2** **Juvenile Perpetrators of Sexual Violence Against Other Minors: In Italy Many Probably Do Not Even Know It Is a Crime**  
*Ignazio Grattagliano, PsyD*; *Paola Lecce, PhD*; *Francesco Craig, PhD*;  
*Elena Laforteza, PhD*; *Andrea Lisi, PsyD*; *Floriana Pinto, PhD*;  
*Valentina Stallone, PhD*; *Grazia Pierri, PsyD*; *Giuseppina Zagaria, PhD*;  
*Lucia Margari, MD*; *Giancarlo Di Vella, MD, PhD*; *Anna Cassano, PsyD\**;  
*Alessio Ostuni, MD*; *Maricla Marrone, MD*; *Francesco Margari, MD*
- 11:30 a.m. - 1:00 p.m. **I3** **The Implementation of a New Method to Care for Mentally Ill, Incarcerated Clients Who Are Not Competent to Stand Trial**  
*Mariah Smith, MD\**; *Roshanak Ramezani, MD*; *Ronnie Swift, MD*

## Thursday

### Abuse and Crimes Toward Children

*Moderator: R. Gregg Dwyer, MD, EdD*  
*Medical University of South Carolina*  
*Community & Public Safety Psychiatry Division*  
*Charleston, SC*

*Co-Moderator: Karen B. Rosenbaum, MD*  
*New York, NY*

- 8:30 a.m. - 10:30 a.m. **I4** **Internet Crimes Against Children: A Forensic Analysis**  
*Karen B. Rosenbaum, MD\**; *R. Gregg Dwyer, MD, EdD\**; *J. Paul Fedoroff, MD\**;  
*D.J. Barton, MCJ\**
- 10:30 a.m. - 10:45 a.m. **Break**
- 10:45 a.m. - 11:05 a.m. **I5** **Real Child Voices: The Impact of Age and Gender Congruent Voices on Sexual Arousal to Child Sexual Scenarios**  
*Rebekah Ranger, BA\**; *Lisa Murphy, MCA*; *J. Paul Fedoroff, MD*;  
*William H. Burke, PhD*; *R. Gregg Dwyer, MD, EdD*
- 11:05 a.m. - 11:20 a.m. **I6** **A Psychological Formulation Model for the Multi-Agency Intervention: Investigation and Management of Child Sexual Exploitation**  
*Lynsey F. Gozna, PhD\**

# PSYCHIATRY & BEHAVIORAL SCIENCE



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- 11:20 a.m. - 12:00 p.m. **I7** **Why Do Mothers Abuse and Neglect Their Children?: An Update on 100 New Jersey Cases**  
*Vivian Shnaidman, MD\**
- 12:00 p.m. - 1:00 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **I8** **Re-Socialization of the Prisoner Between Psychological Support and Work: The Italian Experience**  
*Michele Vaira, JD\**; *Laura Muscatello, MD\**; *Tania Rizzo, BS\**
- 11:30 a.m. - 1:00 p.m. **I9** **Forensic Psychiatric Assessment of Detainees in the United States Immigration System**  
*Ziyad Nuwayhid, MD\**; *Gregory B. Leong, MD*; *Ngoc-Tram T. Vo, DO*
- 11:30 a.m. - 1:00 p.m. **I10** **The Complicated Relationship Between Fire Setters and Mental Illness**  
*Sigella Vargas, MD\**; *Amina Ali\**; *Monika Gashi, MD\**; *Katya Frischer, MD\**
- 11:30 a.m. - 1:00 p.m. **I11** **Toxicological Findings in Choking of Adult Psychiatric Patients**  
*Jelena Vucinic, MD\**; *Nemanja Radojevic, MSc*; *Dragana Cukic, PhD*

## Violence and Psychopathy

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*Moderator: Laura Volpini, PhD*  
*Rome, ITALY*

*Co-Moderator: Samuel J. Leistedt, MD, PhD*  
*Baudour, BELGIUM*

- 1:00 p.m. - 1:45 p.m. **I12** **Copycat Violence in Psychiatric Patients**  
*Houssam Raai\**; *Katya Frischer, MD*; *Amina Ali\**; *Loveleen Kaur Khehra, BSc*
- 1:45 p.m. - 2:00 p.m. **I13** **WITHDRAWN**
- 2:00 p.m. - 2:30 p.m. **I14** **Violence Factors and Characteristics of Police Ambush Killers**  
*Amina Ali\**; *Panagiota Korenis-Rios, MD\**; *Wen Gu, PhD\**; *Ali Khadivi, PhD\**
- 2:30 p.m. - 2:55 p.m. **I15** **The Experience of Revenge: The Patterns, Meanings, and Mindsets of Mentally Disordered Offenders**  
*Lynsey F. Gozna, PhD\**; *Cris Glazebrook, PhD*; *David Daley, PhD*
- 2:55 p.m. - 3:25 p.m. **I16** **On the Radicalization Process**  
*Samuel J. Leistedt, MD, PhD\**
- 3:25 p.m. - 3:40 p.m. **Break**



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- 3:40 p.m. - 4:10 p.m. **I17** **The Female Psychopath: A Study of a Sample of National Italian Women Offenders**  
*Felice F. Carabellese, MD\**; *Alan R. Felthous, MD*; *Donatella La Tegola, PhD*;  
*Adriana Zito, MD*; *Ilaria Rossetto, MD*; *Filippo Franconi, MD*;  
*Roberto Catanesi, MD*
- 4:10 p.m. - 4:25 p.m. **I18** **Relationship of Oxytocin (OXT) and the Serotonin Transporter (5-HTT) Single Nucleotide Polymorphisms and Antisocial Behavior**  
*Elizabeth Chesna, BS\**; *Charity M. Beherec, MS*; *Gabriella Cansino-Jones, MS*;  
*Peyton Gandy, MSFS*; *Jessica Wells, MS*; *Danielle Boisvert, PhD*;  
*Todd Armstrong, PhD*; *Sheree R. Hughes-Stamm, PhD*; *David A. Gangitano, PhD*
- 4:25 p.m. - 4:45 p.m. **I19** **Youth Satanism and Forensic Investigation: The Case of the “Beasts of Satan” in Italy**  
*Laura Volpini, PhD\**; *Gaia Cipollaro*; *Luciano Garofano, PhD\**;  
*Matteo Borrini, PhD\**
- 4:45 p.m. - 5:00 p.m. **I20** **Fantasy-Reality Confusion: Normal Development or Mental Illness? The Case of the “Slender Man Stabbing”**  
*Patrick G. Wiita, MD\**

## Friday

### Legal Considerations

*Moderator: Marc A. Cohen, MD*  
*Beverly Hills, CA*

*Co-Moderator: Park E. Dietz, MD, PhD*  
*Newport Beach, CA*

- 8:30 a.m. - 9:30 a.m. **I21** **Resiliency and Trauma: An Interdisciplinary Team Approach to the Evaluation of Individuals in Mass Tort Cases**  
*Marc A. Cohen, MD\**; *Park E. Dietz, MD, PhD\**; *Daniel A. Martell, PhD\**
- 9:30 a.m. - 9:50 a.m. **I22** **Medication Madness: Medication As the Basis for the Involuntary Intoxication Defense**  
*Jennifer Piel, MD\**
- 9:50 a.m. - 10:10 a.m. **I23** **Vexatious Litigation: Medicolegal Aspect of a Pathological Concept and Its Implication in Canada**  
*Sebastien S. Prat, MD\**; *Joseph Ferencz, MD, PhD*
- 10:10 a.m. - 10:30 a.m. **I24** **Controversies in the Assessment of Forensic Parasomnia Episodes**  
*John M.M. Rumbold, PhD\**
- 10:30 a.m. - 10:45 a.m. **Break**

# PSYCHIATRY & BEHAVIORAL SCIENCE



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- 10:45 a.m. - 11:05 a.m. **I25** **Incompetently Incompetent: The Use of Forged Forensic Evaluations to Avoid Conviction and Sentencing**  
*Kelly L. Coffman, MD\**; *Glenn J. Egan, PhD*; *Peter Ash, MD*
- 11:05 a.m. - 11:30 a.m. **I26** **Psychological Assessment in Forensic Context: Detection Deception Within a Mixed Perspective**  
*Francisco Valente Gonçalves, MSc\**
- 11:30 a.m. - 11:45 a.m. **I27** **Dress to Impress: A Comprehensive Examination of How Physical and Behavioral Characteristics of Expert Witnesses Can Influence the Trier-of-Fact**  
*Talene Keshishian, MD\**
- 11:45 a.m. - 1:00 p.m. **Lunch**

## Poster Session

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- 11:30 a.m. - 1:00 p.m. **I28** **Killed to Be Saved ... A Rare Case of Salvific Matricide From Demoniac Possession**  
*Ignazio Grattagliano, PsyD*; *Alessio Ostuni, MD\**; *Maricla Marrone, MD*;  
*Anna Cassano, PsyD*; *Roberto Catanesi, MD*
- 11:30 a.m. - 1:00 p.m. **I29** **Family Secrets: When the Horror in the House Has No Obvious Cause and the Need for Unveiling**  
*Ignazio Grattagliano, PsyD*; *Alessio Ostuni, MD\**; *Maricla Marrone, MD*;  
*Anna Cassano, PsyD*; *Roberto Catanesi, MD*
- 11:30 a.m. - 1:00 p.m. **I30** **The Phenomenon of Suicide by Hanging in Ferrara (1996-2016)**  
*Simone Onti, MD\**; *Letizia Alfieri, MD*; *Erica Bacchio, MD*; *Cesare Bertocco*;  
*Enrica Calabrese, MD*; *Sara Chierici\**; *Paolo Frisoni, MD*; *Raffaella Inglese, MD*;  
*Chiara Marini, MD*; *Raffaella Marino, MD*; *Chara Palazzo, MD*;  
*Rosa Maria Gaudio, MD*
- 11:30 a.m. - 1:00 p.m. **I31** **Epidemiological Study on Suicide Victims in Southern Italy and the Role of Psychoactive Substances**  
*Debora De Bartolo, MD\**; *Emanuela Vitale*; *Ester de Luca, MD\**;  
*Francesco Ausania, MD*; *Sara Strangis, MD*; *Pietrantonio Ricci*

## Sexual Offenders: Ethics of Communication and Consent

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*Moderator: Janet M. Schwartz, PhD*  
*Forensic Fraud Research, Inc*  
*Canton, OH*

*Co-Moderator: Debra M. Osterman, MD*  
*MHMRA Forensic ACT Team*  
*Houston, TX*

- 1:00 p.m. - 2:30 p.m. **I32** **Guidelines for the Evaluation of Sex Offenders and People With Problematic Sexual Interests**  
*Lisa Murphy, MCA\**; *R. Gregg Dwyer, MD, EdD\**; *J. Paul Fedoroff, MD\**;  
*Stephen J. Ferrazzano II, JD\**



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- 2:30 p.m. - 2:50 p.m. **I33** **Motivations to Offend: Hands-On vs. Hands-Off Sex Offenders**  
*Natasha M. Knack, BA\**; *Dave Holmes, PhD*; *Melissa Trunzo*; *J. Paul Fedoroff, MD*
- 2:50 p.m. - 3:05 p.m. **I34** **False Accusation of Sexual Abuse Case Study — Psychology of the Lie**  
*William Cardasis, MD\**; *Brian C. Zubel, JD*
- 3:05 p.m. - 3:20 p.m. **I35** **The Psychology of Drug-Facilitated Sexual Assault: A Case Series From Victoria, Australia**  
*Laura J. Anderson, MA\**; *Asher Flynn, PhD*; *Sanjeev Gaya, DMJ*;  
*Jennifer L. Pilgrim*
- 3:20 p.m. - 3:35 p.m. **Break**
- 3:35 p.m. - 3:50 p.m. **I36** **Enhancing Communication Bolsters Quality and Ethics**  
*John L. Young, MD\**
- 3:50 p.m. - 4:30 p.m. **I37** **The Dangerous Patient: Is It Ever Ethical Not to Give Informed Consent?**  
*William C. Darby, MD\**; *Robert Weinstock, MD\**
- 4:30 p.m. - 4:45 p.m. **I38** **The Capacity to Consent to Treatment in Patients With Alzheimer's Disease**  
*Felice F. Carabellese, MD\**; *Donatella La Tegola, PhD*;  
*Alessandro Dell'Erba, PhD*; *Antonio Leo, MD*; *Simona Arcuti*;  
*Giancarlo Logroscino, MD, PhD*; *Carlo Sabbà, MD*; *Roberto Catanesi, MD*
- 4:45 p.m. - 5:00 p.m. **I39** **Consent for the Mental Health Treatment of Minors: Who Holds This Decision-Making Authority?**  
*Lorraine E. Cuadra, PhD\**

## *Saturday*

### **Criminal Insanity and Treatment**

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*Moderator: Sébastien Prat, MD*  
*Service de Médecine Légale*  
*Hôpital Trousseau*  
*Tours, FRANCE*

*Co-Moderator: William C. Darby, MD*  
*UCLA*  
*Los Angeles, CA*

- 8:30 a.m. - 10:25 a.m. **I40** **Glad Tidings About Not Guilty by Reason of Insanity (NGRI): The Benefits of Conditional Release**  
*Alan R. Felthous, MD\**; *Michael J. Vitacco, PhD\**; *W. Neil Gowensmith, PhD\**;  
*David Novosad, MD\**
- 10:25 a.m. - 10:40 a.m. **Break**

# PSYCHIATRY & BEHAVIORAL SCIENCE



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- 10:40 a.m. - 10:55 a.m.    **I41**    **Legal Substance to Become Psychotic?**  
*Sebastien S. Prat, MD\**; *Gary Andrew Chaimowitz, MD*
- 10:55 a.m. - 11:25 a.m.    **I42**    **Using Research Methods and Theory to Solve Crime: A Case Study**  
*Ronald R. Thrasher, PhD\**
- 11:25 a.m. - 11:40 a.m.    **I43**    **Measuring Treatment Progress and Outcomes in Forensic Mental Health**  
*Zachary Moran, PhD\**; *Lesley Baird, PsyD*; *Amy C. Gurka, PhD*;  
*David Marx, PsyD*; *David Lee, PhD*



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# QUESTIONED DOCUMENTS

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## Wednesday

### Poster Session

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11:30 a.m. - 1:00 p.m. **J1** **Questioned Document Examiner Training: Foundational Readings and Resources**  
*La'Quida Smith, MA\**; *Mara L. Merlino, PhD*

## Thursday

### Questioned Documents 1

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*Moderator: Samiah Ibrahim, BSc  
Ottawa, CANADA*

9:00 a.m. - 9:15 a.m. **Introduction**  
*Samiah Ibrahim, BSc; Linton Mohammed, PhD; Jan Seaman Kelly, BA*

9:15 a.m. - 9:45 a.m. **J2** **The History and Future of Forensic Document Standards**  
*Ted M. Burkes, BS\**; *Rigo Vargas, BA\**

9:45 a.m. - 10:00 a.m. **Discussion**  
*Ted M. Burkes, BS; Rigo Vargas, BA; Samiah Ibrahim, BSc*

10:00 a.m. - 10:15 a.m. **J3** **Contemporaneous Standards in Forensic Document Examination (FDE) — When Is “Close” Close Enough?**  
*Carl R. McClary, BA\**

10:15 a.m. - 10:30 a.m. **J4** **Forensic Document Examiner Testimony of Inconclusive Examination Results**  
*Jan Seaman Kelly, BA\**

10:30 a.m. - 11:00 a.m. **Break**

11:00 a.m. - 11:20 a.m. **J5** **Counterfeit Detection E-Learning: Deployment Progress and Content Updates**  
*Joel A. Zlotnick, MSFS\**; *Tyra S. McConnell, MSFS*; *Tyra Lundy, MS*

11:20 a.m. - 11:40 a.m. **J6** **International Cooperation and the International Criminal Police Organization (INTERPOL) E-Learning Program on the Detection of Fraudulent Documents**  
*Daniela Djidrovska\**

11:40 a.m. - 1:00 p.m. **Lunch**

# QUESTIONED DOCUMENTS



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## Poster Session

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11:30 a.m. - 1:00 p.m. **J7** **The Discrimination of Less Frequently Encountered Colored Pen Inks Based on Their Optical Properties**  
*Lauren M. Perry, BS\*; Patrick Buzzini, PhD*

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## Questioned Documents 2

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*Moderator: Ronald N. Morris, BS  
Bedford, VA*

1:00 p.m. - 1:10 p.m. **Introduction**  
*Ronald N. Morris, BS*

1:10 p.m. - 1:35 p.m. **J8** **Revealing Hidden Information From the Reverse Side of a Questioned Document**  
*Nadeem-Ul-Hassan Khan, MPhil\*; Khurram W. Mahmood, MPhil\*;  
Muhammad Irfan Ashiq, PhD\*; Mohammad A. Tahir, PhD\**

1:35 p.m. - 1:55 p.m. **J9** **The Evaluation of Instrument Sensitivity and Stability for the Magnetic Flux Measurement Relative to Toner Area as a Screening Tool for Casework Application**  
*Carrie Polston\*; Williams Mazzella, PhD; Martin Furbach, MS; Patrick Buzzini, PhD*

1:55 p.m. - 2:10 p.m. **J10** **The Determination of Heterogeneous and Homogeneous Line Intersections: Infrared (IR) Versus Polarized Luminescent Techniques**  
*John Z. Wang, PhD\**

2:10 p.m. - 2:25 p.m. **J11** **Direct Sample Analysis/Mass Spectrometry (DSA/MS) vs. Separation MS Techniques for the Analysis of Writing Inks**  
*Mehdi Moini, PhD\*; Lucy Nguyen, MS*

2:25 p.m. - 2:55 p.m. **Break**

2:55 p.m. - 3:20 p.m. **J12** **From False Identity and Travel Documents to Forensic Intelligence: Profiling Methods to Support the Detection and Investigation of Organized Crime Groups**  
*Simon Baechler, PhD\**

3:20 p.m. - 3:40 p.m. **J13** **An Analysis of Polymers in False Identity Documents: A New Contribution to Forensic Intelligence**  
*Caroline Mireault, MA\*; Simon Baechler, PhD; Frank Crispino, PhD*

3:40 p.m. - 4:10 p.m. **J14** **Imitation Typewriter Digital Fonts — A Project to Establish a Reference Collection**  
*Michelle Novotny, BS; Claire Graydon, BS; Peter V. Tytell, BA\**

4:10 p.m. - 4:25 p.m. **Questions & Answers**





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# QUESTIONED DOCUMENTS

*Friday*

## Questioned Documents 3

*Moderator: Jeanne M. Dietrich, BS  
IRS National Forensic Lab  
Chicago, IL*

8:45 a.m.	-	9:00 a.m.	<b>Introduction</b> <i>Jeanne M. Dietrich, BS</i>
9:00 a.m.	-	9:20 a.m.	<b>J15 Quantifying Handwriting Variation</b> <i>Marc Gaudreau, BSc*; Samiah Ibrahim, BSc</i>
9:20 a.m.	-	9:35 a.m.	<b>J16 A Forensic Examination of Simulations of Illegible Signatures</b> <i>Komal Saini, PhD; Shabnam Preet Kaur, MSc*</i>
9:35 a.m.	-	9:55 a.m.	<b>J17 The Dynamics of Guided-Hand Signatures</b> <i>Samiah Ibrahim, BSc*</i>
9:55 a.m.	-	10:10 a.m.	<b>Break</b>
10:10 a.m.	-	10:30 a.m.	<b>J18 The Development of the Copybook System in the West Bank/Palestine</b> <i>Nazih M.A. Jaradat, BSc*; Donya Ataynah, BSc*; Samiah Ibrahim, BSc</i>
10:30 a.m.	-	10:50 a.m.	<b>J19 Features of Elderly Writing in Arabic</b> <i>Bayan Ramadan, BSc*; Ayman Ghazawi, BA*; Samiah Ibrahim, BSc</i>
10:50 a.m.	-	11:10 a.m.	<b>J20 Mixed-Script Signatures: A Modern Paradigm for an Age-Old Identifier</b> <i>Hussam Jalamneh, BA*; Mahmoud M. Abu Khairan, BS*; Samiah Ibrahim, BSc</i>
11:10 a.m.	-	11:30 a.m.	<b>J21 Analysis and Recognition of Urdu Handwriting</b> <i>Zumrad U. Bhutta, MS*; Syed Kaleem Imam, PhD*</i>
11:30 a.m.	-	1:00 p.m.	<b>Lunch</b>

## Poster Session

11:30 a.m.	-	1:00 p.m.	<b>J22 The Admissibility of Forensic Expert Testimony: 25 Years of Milestones and Impacts</b> <i>La'Quida Smith, MA*; Mara L. Merlino, PhD</i>
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# QUESTIONED DOCUMENTS



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## Multidisciplinary Session: Jurisprudence Session II/Questioned Documents

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Moderator: *Linton Mohammed, PhD*  
*Forensic Science Consultants, Inc*  
*Burlingame, CA*

Co-Moderator: *Christine Haskell, JD*  
*Rensselaer, IN*

- 1:00 p.m. - 2:00 p.m.    **J23**    **A Review of the *Almezciga et al. v. Center for Investigative Reporting, Inc. et al. Decision***  
*Jan Seaman Kelly, BA\**; *Stephanie Domitrovich, JD, PhD\**; *Linton Mohammed, PhD\**
- 2:00 p.m. - 2:40 p.m.    **J24**    **The Background, Training, and Experience of Questioned Document Examiners: Present Practice and Future Directions**  
*Mara L. Merlino, PhD\**; *Tierra M. Freeman, PhD\**; *La'Quida Smith, MA\**; *Ivan Duvall\**
- 2:40 p.m. - 2:55 p.m.    **Break**
- 2:55 p.m. - 3:35 p.m.    **F46**    **Is Your Handwriting Expert's Testimony Admissible? Navigating *Daubert / Kumho* Challenges to Enhance the Likelihood That Gatekeepers Will Find Handwriting Comparison Evidence Sufficiently Reliable to Be Admissible Under Federal Rule of Evidence 702 (Fed. Rule 702)**  
*Andrew Sulner, MSFS, JD\**
- 3:35 p.m. - 4:15 p.m.    **J25**    **Minimizing Cognitive Bias in Forensic Document Examination**  
*Jane A. Lewis, MFS\**
- 4:15 p.m. - 4:55 p.m.    **J26**    **Forensic Document Examination in International Humanitarian and Human Rights Cases**  
*Tobin A. Tanaka, BS\**



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# TOXICOLOGY

*Wednesday*

## Toxicology Section Awardees Recognition (by invitation only)

6:30 p.m. - 7:30 p.m.

Supported by: *Aegis Sciences Corporation*  
*Agilent Technologies, Inc.*

## Poster Session

*Moderator: Michael Wagner, MS, PA*  
*Broward County Medical Examiner's Office*  
*Fort Lauderdale, FL*

*Co-Moderator: Madeleine J. Swortwood, PhD*  
*Sam Houston State University*  
*Huntsville, TX*

- 7:30 p.m. - 9:00 p.m.    **K1**    **Alcohol and Psychotropic Drugs in Traffic Accident Fatalities in Calabria, Italy, From 2006 to 2015**  
*Debora De Bartolo, MD\**; *Emanuela Vitale*; *Francesco Ausania, MD*;  
*Claudio Chirico, MD*; *Santo Gratteri, MD*; *Pietrantonio Ricci*
- 7:30 p.m. - 9:00 p.m.    **K2**    **An Analysis of Cannabinoids in Whole Blood**  
*Adrian M. Taylor, PhD\**
- 7:30 p.m. - 9:00 p.m.    **K3**    **The Distribution of 11-Nor-9-Carboxy-Tetrahydrocannabinol (THC-COOH) in Korean Drug Abusers' Hair**  
*Eunmi Kim, PhD\**; *Juhyun Sim, PhD*; *Meejung Park*; *Sangwhan In, PhD*
- 7:30 p.m. - 9:00 p.m.    **K4**    **A Study of an Active-State CB1 Receptor Model and Synthetic Cannabinoid Interactions**  
*Caroline Spencer, BS\**; *Kelsey L. Pettus, BSc*; *Pankaj Pandey, PhD*;  
*Robert J. Doerksen, PhD*; *Murrell Godfrey, PhD*
- 7:30 p.m. - 9:00 p.m.    **K5**    **An Evaluation of Cannabinoid 2 Receptor and Endogenous Cannabinoid 2-Arachidonylglycerol in the Central Nervous System**  
*Dakota Jackson, PhD\**; *Shere Paris, PhD*; *Dong Liang, PhD*; *Wael Fathy, PhD*;  
*Ashraf Mozayani, PharmD, PhD*
- 7:30 p.m. - 9:00 p.m.    **K6**    **The Results of Analysis of 6-Monoacetyl Morphine (6-MAM) in Operating Under the Influence (OUI) Drug and Driving Cases and Drug-Facilitated Crimes (DFC) in the Commonwealth of Massachusetts During a Five-Year Period**  
*Jeffery Hackett, PhD\**; *Albert A. Elian, MS\**
- 7:30 p.m. - 9:00 p.m.    **K7**    **The Identification of the Pyrolytic Products of Two Drugs of Abuse: Heroin and Fentanyl**  
*Stephen A. Raso, MS*; *Derik McCarthy\**; *Suzanne Bell, PhD*



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# TOXICOLOGY

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- 7:30 p.m. - 9:00 p.m. **K8** **Occupational Lethal Asphyxiation by Toxic Gas in Unconfined Spaces: Hydrogen Sulphide (H<sub>2</sub>S) Poisoning**  
*Roberto Gagliano Candela, PhD\**; *Fabrizia Favalli*; *Lucia Aventaggiato*;  
*Anna Pia Colucci, PhD*; *Giuseppe Strisciullo, BES*
- 7:30 p.m. - 9:00 p.m. **K9** **Arsenic-Fed Piglets: Assessing Heavy Metal Levels in Decomposing Pig Tissues and Soil Samples**  
*Robert R. Paine, PhD*; *David Klein, PhD*; *Courtney L. Brown\**
- 7:30 p.m. - 9:00 p.m. **K10** **Postmortem Identification and Quantitation of Loperamide in the Human Brain**  
*Sandra C. Bishop-Freeman, PhD*; *Erin Hensel, MSFS\**; *Robert Hargrove, BS*;  
*Susan E. Venuti, MD*; *Ruth E. Winecker, PhD*
- 7:30 p.m. - 9:00 p.m. **K11** **Suicide After 25C-N-Methoxybenzyl (25C-NBOMe) and 25H-N-Methoxybenzyl (25H-NBOMe) Consumption**  
*Luca Morini*; *Marzia Bernini*; *Sara Vezzoli*; *Mario Restori*; *Francesco Randazzo*;  
*Massimiliano Salvatore Scida, MD*; *Alessandro De Gaetano, MD*;  
*Matteo Moretti, MD*; *Stefano Crenna, MD\**; *Pietro Papa*; *Antonio M.M. Osculati, MD*;  
*Claudia Vignali*; *Angelo Groppi*
- 7:30 p.m. - 9:00 p.m. **K12** **An Analysis of Illicit Substances From Postmortem Samples Using Biocompatible Solid-Phase Microextraction (BioSPME)**  
*Chandler M. Grant, BS\**; *Thomas A. Brettell, PhD*
- 7:30 p.m. - 9:00 p.m. **K13** **The Detection and Quantitation of Insulin Analogs by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) in Postmortem Vitreous Humor**  
*Kevin M. Legg, PhD\**; *Laura M. Labay, PhD*; *Barry K. Logan, PhD*
- 7:30 p.m. - 9:00 p.m. **K14** **An Analysis of Stimulants and Metabolites From Dried Blood Spots (DBS) Using Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)**  
*Emily A. Williamson, BS\**; *Thomas A. Brettell, PhD*
- 7:30 p.m. - 9:00 p.m. **K15** **Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) -Based Analysis of *In Vitro* Covalent Modifications of Glutathione (GSH) and Peptide Thiols by Drugs of Abuse**  
*Richard A. Gilliland, BA\**; *Carolina Moller, PhD*; *Anthony P. DeCaprio, PhD*
- 7:30 p.m. - 9:00 p.m. **K16** **The Development and Validation of a Method for Cocaine/Crack Cocaine Biomarkers in Human Oral Fluid, Urine, and Plasma by Liquid Chromatography/Mass Spectrometry (LC/MS) and Its Application in Drug Users**  
*Tais Regina Fiorentin, BS\**; *Felipe Bianchini D'Avila, PhD*; *Eloisa Comiran, PhD*;  
*Amanda Zamboni*; *Renata P. Limberger, PhD*
- 7:30 p.m. - 9:00 p.m. **K17** **The Separation of Chemically Similar and Isobaric Novel Psychoactive Substances (NPS) Using 2D-Liquid Chromatography (2D-LC)**  
*Melanie Eckberg, BS\**; *Luis E. Arroyo, PhD*; *Dwight R. Stoll, PhD*;  
*Anthony P. DeCaprio, PhD*



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- 7:30 p.m. - 9:00 p.m. **K18** **The Evaluation of Mono-, Di-, and Trivalent Cations for the Optimized Surface-Enhanced Raman Spectroscopy (SERS) Enhancement to Detect Synthetic Cannabinoids in Biological Samples**  
*Thaddeus Mostowtt, MFS\**; *Chiara Deriu, MS*; *Jonathan Munoz*;  
*Bruce R. McCord, PhD*
- 7:30 p.m. - 9:00 p.m. **K19** **A Comparison of Two High-Resolution Mass Spectrometry Data Acquisition Methods for the Screening, Quantitation, and Confirmation of Compounds in Postmortem Blood**  
*Kristine Van Natta\**; *Marta Kozak, MS*
- 7:30 p.m. - 9:00 p.m. **K20** **Screening, Confirmation, and Quantitation of Synthetic Cathinones and Cannabinoids in Urine by High-Resolution Accurate-Mass Mass Spectrometry**  
*Marta Kozak, MS*; *Kristine Van Natta\**
- 7:30 p.m. - 9:00 p.m. **K21** **A Biochip Array Screening of Blood and Urine Samples for the Recommended Drugs Associated With Driving Under the Influence of Drugs (DUID)**  
*Lindsay McCrudden*; *Pankaj Sinha\**; *Joanne Darragh, PhD*; *R. Ivan McConnell, BSc*;  
*S. Peter Fitzgerald, PhD*
- 7:30 p.m. - 9:00 p.m. **K22** **An Assessment of the Stability and Degradation of Mephedrone in Solvents and Biological Matrices**  
*Heather Ciallrella, BS\**; *Lorna A. Nisbet, PhD*; *Simeon O. Kotchoni, PhD*;  
*Alex J. Krotulski, MS*; *Karen S. Scott, PhD*
- 7:30 p.m. - 9:00 p.m. **K23** **SWATH™ Acquisition vs. Information-Dependent Data Acquisition (IDA) With Application to Broad-Based Drug Screening**  
*Alex J. Krotulski, MS\**; *Amanda L.A. Mohr, MSFS*; *Melissa Friscia, MSFS*;  
*Barry K. Logan, PhD*
- 7:30 p.m. - 9:00 p.m. **K24** **A Rapid Quantitative Analysis of Stimulants by Ultra High-Pressure Liquid Chromatography/Mass Spectrometry (UHPLC/MS)**  
*Kathleen Toomey, BS\**; *Christopher Marcum, PhD*; *Stephen Davis, PhD*;  
*Megan S. Carrison, MS*; *Christina Rainey, PhD*
- 7:30 p.m. - 9:00 p.m. **K25** **WITHDRAWN**
- 7:30 p.m. - 9:00 p.m. **K26** **Screening for Fentanyl and Its Analogues in Postmortem Specimens Using the OraSure Fentanyl Enzyme-Linked Immuno-Sorbent Assay (ELISA) Direct Kit Assay**  
*Evelyn Reyes, BS\**; *YuYuan Ye, BS*; *Imran E. Khan, BS*; *Reinaldo Fonseca, BS*;  
*Gail Audrey Ann Cooper, PhD*
- 7:30 p.m. - 9:00 p.m. **K27** **A Rapid Analysis of Pharmaceuticals in Human Tissues by 2D-Liquid Chromatography/Tandem Mass Spectrometry (2D-LC/MS/MS) Technology**  
*Malorie Mella, BA*; *Claude Mallet, PhD\**; *Sabra R. Botch-Jones, MS, MA*;  
*Brendan N. Schweitzer, BS*; *Dennis V. Canfield, PhD*; *Philip M. Kemp, PhD*;  
*Kacey Cliburn, MS*



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- 7:30 p.m. - 9:00 p.m. **K28** **Techniques for Screening and Confirmation of U-47700 and Flubromazepam in Two Non-Fatal Cases**  
*Jeffrey D. Chmiel, MS\**; *Erin L. Karschner, PhD*; *John J. Kristofic, BS*;  
*Jessica L. Knittel, BS*; *George F. Jackson, PhD*; *Sarah A. Shoemaker, MS*;  
*Eric T. Shimomura, PhD*; *Jeff Walterscheid, PhD*
- 7:30 p.m. - 9:00 p.m. **K29** **A Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Quantitative Analysis of Cocaine and Its Metabolites in Urine, Oral Fluids, and Blood for Forensic Toxicology**  
*Rory M. Doyle, PhD\**
- 7:30 p.m. - 9:00 p.m. **K30** **A Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Quantitative Analysis of Hallucinogenic Drugs in Urine, Oral Fluids, and Blood for Forensic Toxicology**  
*Rory M. Doyle, PhD\**
- Supported by: Immunalysis Corporation*

## Thursday

### Annual Lectureship in Toxicology

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*Moderator: Dan T. Anderson, MS*  
*Colorado Bureau of Investigation*  
*Arvada, CO*

*Co-Moderator: Marilyn A. Huestis, PhD*  
*Huestis & Smith Toxicology, LLC*  
*Severna Park, MD*

8:30 a.m. - 9:30 a.m. **The Healing Properties of Navajo Ceremonies**  
*Lori Arviso Alvord, MD*

9:30 a.m. - 9:45 a.m. **Break**

### Novel Psychoactive Substances

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*Moderator: Marc A. LeBeau, PhD*  
*FBI Laboratory*  
*Quantico, VA*

*Co-Moderator: Amanda L.A. Mohr, MSFS*  
*Center for Forensic Science*  
*Research & Education*  
*Willow Grove, PA*

9:45 a.m. - 10:00 a.m. **K31** **The Chinese Influence on the Novel Psychoactive Substances (NPS) Movement in the United States**  
*Donna M. Papsun, MS\**; *Sherri L. Kacinko, PhD*; *Amanda L.A. Mohr, MSFS*;  
*Barry K. Logan, PhD*



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- 10:00 a.m. - 10:15 a.m.    **K32**    **The Prevalence of New Psychoactive Substances (NPS) in Northeast Asia From 2007 to 2015**  
*Hee-Sun Chung, PhD\**; *Junhui Lee, BA*; *Yujin Kang, BA*; *Songhee Yang, BA*;  
*Jih-heng Li*; *Ling-yi Feng, MA*
- 10:15 a.m. - 10:30 a.m.    **K33**    **The Evaluation of Temporal Changes of Novel Psychoactive Substances (NPS) Use Within an Electronic Dance Music (EDM) Population Over a Three-Year Period**  
*Melissa Friscia, MSFS\**; *Amanda L.A. Mohr, MSFS*; *Jillian K. Yeakel, MS*;  
*Alex J. Krotulski, MS*; *Barry K. Logan, PhD*
- 10:30 a.m. - 10:45 a.m.    **K34**    **A Death Due to the Use of the Novel Psychoactive Substances (NPS) (2-Aminopropyl) Benzofuran (APB) and N-Methyl Derivative (MAPB)**  
*Alan P. Martinez\**; *Diane C. Peterson, MD*; *Uttam Garg, PhD*;  
*C. Clinton Frazee III, MBA*; *Aida Richardson, MD*
- 10:45 a.m. - 11:00 a.m.    **Break**  
*Supported by: Aegis Sciences Corporation*

## Novel Psychoactive Substances (continued)

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*Moderator: Ashraf Mozayani, PharmD, PhD*  
*Texas Southern University*  
*Houston, TX*

*Co-Moderator: Laureen Marinetti, PhD*  
*Redwood Toxicology Laboratory, Inc.*  
*Santa Rosa, CA*

- 11:00 a.m. - 11:15 a.m.    **K35**    **Demonstrating the Need for Complete Testing Methods When Screening for Novel Psychoactive Substances (NPS)**  
*Jeffrey D. Chmiel, MS*; *John J. Kristofic, BS\**; *Joseph W. Addison, MS*;  
*Jeff Walterscheid, PhD*
- 11:15 a.m. - 11:30 a.m.    **K36**    **Clinical Manifestations of U-47700 and Flubromazepam Intoxication**  
*Erin L. Karschner, PhD\**; *Jeffrey D. Chmiel, MS*; *John J. Kristofic, BS*;  
*George F. Jackson, PhD*; *Jessica L. Knittel, BS*; *Sarah A. Shoemaker, MS*;  
*Eric T. Shimomura, PhD*; *Jeff Walterscheid, PhD*
- 11:30 a.m. - 11:45 a.m.    **K37**    **Synthetic Cathinone Stability in Blood Using Liquid Chromatography/Quadrupole Time-Of-Flight/Mass Spectrometry (LC/qTOF/MS)**  
*Lindsay Glicksberg, BS\**; *Sarah Kerrigan, PhD*
- 11:45 a.m. - 12:00 p.m.    **K38**    **Method Validation Using Multiple Compound Mixtures for Screening/Confirmation of 800+ Novel Psychoactive Substances (NPS) by Liquid Chromatography/Triple Quadrupole/Mass Spectrometry (LC/QqQ/MS)**  
*Ashley N. Kimble, BS\**; *Luis E. Arroyo, PhD*; *Anthony P. DeCaprio, PhD*
- 12:00 p.m. - 1:00 p.m.    **Lunch**

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## Drugs and Driving

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*Moderator: Michael L. Smith, PhD  
Huestis & Smith Toxicology, LLC  
Severna Park, MD*

*Co-Moderator: Denice M. Teem, BS  
NMS Labs  
Willow Grove, PA*

- 1:00 p.m. - 1:15 p.m.    **K39**    **Characteristics of Drug Use Among Drivers in Houston, Texas**  
*Andrew S. Greenwood, BS\*<sup>\*</sup>; Dayong Lee, PhD*
- 1:15 p.m. - 1:30 p.m.    **K40**    **Driving Under the Influence (DUI) of Methamphetamine/Amphetamine (mAMP/AMP) and Cannabinoids in the City and County of San Francisco**  
*Eric A. Ingle, BA\*<sup>\*</sup>; Mariya Mayevskaya, BA; Nikolas P. Lemos, PhD*
- 1:30 p.m. - 1:45 p.m.    **K41**    **Driving Under the Influence of Drugs (DUID) “Per Se” Laws: Practical Application and the Inclusion of Inactive Metabolites**  
*Michael P. Stypa, MS\*<sup>\*</sup>; Jennifer O. Rattanaprasit, MS; Nicole L. Van Aken, BS; Stacy A. Wilkinson; Theresa A. Suffecool, BS; Brian S. Rutledge, JD; Bruce W. Nelson, JD*
- 1:45 p.m. - 2:00 p.m.    **K42**    **The Incidence of Drugs and Alcohol in More Than 18,000 Drivers Using the Recommendations of a 2013 Consensus Study**  
*Daniel S. Isenschmid, PhD\*<sup>\*</sup>; Barry K. Logan, PhD*
- 2:00 p.m. - 2:15 p.m.    **K43**    **The Results of the National Safety Council’s Alcohol, Drugs and Impairment Division (NSC ADID) Survey of Drug Testing in Driving Under the Influence of Drugs (DUID) and Traffic Fatality Investigations**  
*Amanda D’Orazio\*<sup>\*</sup>; Amanda L.A. Mohr, MSFS; Karen S. Scott, PhD; Jennifer F. Limoges, MS; Amy Miles, BS; Marilyn A. Huestis, PhD; Laura J. Liddicoat, BS; Sarah Kerrigan, PhD; Barry K. Logan, PhD*
- 2:15 p.m. - 2:30 p.m.    **K44**    **Alere™ DDS®2 Mobile Test System Screening for Delta-9-Tetrahydrocannabinol (THC) With Oral Fluid Confirmation by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)**  
*Alex J. Krotulski, MS\*<sup>\*</sup>; Amanda L.A. Mohr, MSFS; Melissa Friscia, MSFS; Barry K. Logan, PhD*
- 2:30 p.m. - 2:45 p.m.    **K45**    **Detecting Drugged Driving in Wisconsin: A Comparison of Whole Blood and Roadside Oral Fluid Specimens**  
*Lorraine D. Edwards, MS\*<sup>\*</sup>*
- 2:45 p.m. - 3:00 p.m.    **K46**    **Blood and Oral Fluid Cannabinoids’ Pharmacokinetics and the Evaluation of Two On-Site Oral Fluid (OF) Screening Devices for the Prediction of Δ<sup>9</sup>-Tetrahydrocannabinol (THC) in Oral Fluid and Blood Following Edible Cannabis Administration**  
*Matthew N. Newmeyer, BS; Madeleine J. Swortwood, PhD; Osama A. Abulseoud, MD; Karl B. Scheidweiler, PhD; Marilyn A. Huestis, PhD\*<sup>\*</sup>*





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# TOXICOLOGY

3:00 p.m. - 3:15 p.m.

## Break

Supported by: *UTAK Laboratories*  
*Waters Corporation*

## Analytical Methods in Toxicology

Moderator: *Fiona J. Couper, PhD*  
*Washington State Patrol*  
*Seattle, WA*

Co-Moderator: *Eric A. Ingle, BA*  
*Pleasant Hill, CA*

- 3:15 p.m. - 3:30 p.m. **K47** **Direct Tissue Sampling of Diazepam and Amitriptyline Using Mixed-Mode Solid-Phase Microextraction (SPME) Fibers: A Feasibility Study**  
*Hester Peltenburg, PhD; Martien Graumans, BSc; Steven Droge, PhD;*  
*Joop Hermens, PhD; Ingrid Bosman, PhD\**
- 3:30 p.m. - 3:45 p.m. **K48** **The Quantification of Loperamide by Gas Chromatography/Mass Spectrometry (GC/MS)**  
*Rachel C. Beck, PhD\*; C. Andrew Robinson, Jr., PhD; Susan Kloda; Daniel W. Dye, MD*
- 3:45 p.m. - 4:00 p.m. **K49** **The Quantitation of Mitragynine in Human Whole Blood by Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS) and Its Application to the Analysis of Toxicological Samples**  
*Kris Graf, BS\*; Donna M. Papsun, MS; Joseph Homan, MS;*  
*Heather E. McKiernan, MSFS; Barry K. Logan, PhD*
- 4:00 p.m. - 4:15 p.m. **K50** **The Detection of Cocaine and Its Major Metabolites in Rodent Bone Following Outdoor Decomposition After Chronic Cocaine Administration Using 2D-Liquid Chromatography/Tandem Mass Spectrometry (2D-LC/MS/MS)**  
*Malorie Mella, BA\*; Claude Mallet, PhD; Sabra R. Botch-Jones, MS, MA;*  
*Tara L. Moore, PhD*
- 4:15 p.m. - 4:30 p.m. **K51** **Capsule Phase Microextraction (CPME): A Powerful New Arsenal in Analytical and Forensic Sample Preparation**  
*Abuzar Kabir, PhD\**
- 4:30 p.m. - 4:45 p.m. **K52** **The Screening of Biofluids for the Detection of Traditional Illicit Drugs, New Psychoactive Substances (NPS), and Pharmaceuticals by Automated Online Extraction Using Turbulent Flow Chromatography and High Resolution Accurate Mass-Hybrid Quadrupole-Orbitrap-Mass Spectrometry (HRAM/Q-OT/MS)**  
*Flavio Zancanaro, PhD; Gianpaola Tedeschi, PhD; Samuela Frasson;*  
*Luca Zamengo, PhD; Giampietro Frison\**
- 4:45 p.m. - 5:00 p.m. **K53** **The Direct Detection and Ultrafast Quantification of Drugs of Abuse in Serum by Probe Electrospray Ionization/Tandem Mass Spectrometry (PESI/MS/MS)**  
*Maiko Kusano, PhD\*; Kei Zaitso, PhD; Yumi Hayashi, PhD; Tasuku Murata, MS;*  
*Hiroki Nakajima, PhD; Saki Noda, BS; Hitoshi Tsuchihashi, PhD; Akira Ishii, MD*

# TOXICOLOGY



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## Toxicology Open Forum

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*Moderator: H. Chip Walls, BS  
Forensic, Analytical & Clinical  
Toxicology Lab  
Miami, FL*

*Co-Moderator: Nikolas P. Lemos, PhD  
University of California, San Francisco  
Department of Lab Medicine  
San Francisco, CA*

7:00 p.m. - 9:00 p.m.

**Toxicology Open Forum**  
*Supported by: Aegis Sciences Corporation  
Millipore Sigma*

## Friday

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### Multidisciplinary Session: Pathology/Biology Session II/Toxicology — Postmortem Forensic Toxicology

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*Moderator: Timothy P. Rohrig, PhD  
Regional Forensic Science Center  
Wichita, KS*

*Co-Moderator: Giancarlo Di Vella, MD, PhD  
University of Torino  
Dept of Public Health Sciences  
Torino, ITALY*

- 8:30 a.m. - 8:45 a.m.    **H133**    **Evaluation of Acute Alcohol Intoxication as the Primary Cause of Death: A Diagnostic Challenge for Forensic Pathologists**  
*Rong Li, MD; Feng Chen, MD\*; Jianwen Wang, MD; Xiang Zhang, MD\*; Rebecca Jufer Phipps, PhD; Eleanor Thomas; David R. Fowler, MD; Ling Li, MD\**
- 8:45 a.m. - 9:00 a.m.    **K54**    **False Positive Enzymatic Alcohol Results: Two Cases From 2014**  
*Sandra C. Bishop-Freeman, PhD\*; Robert H. Powers, PhD; Lisa Mayhew, BS; Ruth E. Winecker, PhD*
- 9:00 a.m. - 9:15 a.m.    **H134**    **Deaths From Combined Methamphetamine and Heroin Use in Denver: 2005-2016**  
*Andrew Hanosh, MD\*; Meredith A. Frank, MD; Krista L. Timm, MD; James Louis Caruso, MD*
- 9:15 a.m. - 9:30 a.m.    **K55**    **The Increased Prevalence of Illicit Synthetic Opioids in Postmortem Casework at the New York City Office of Chief Medical Examiner (NYC OCME) From January to June, 2016**  
*Gail Audrey Ann Cooper, PhD\**
- 9:30 a.m. - 9:45 a.m.    **K56**    **The Use of Liquid Chromatography/Time-Of-Flight (LC/TOF) Data-Mining Techniques to Evaluate Evidence of Use of Dipyrone and Levamisole in Conjunction With Fentanyl and Other Illicit Recreational Drugs**  
*Brian Holsey, BS\*; Sherri L. Kacinko, PhD; Barry K. Logan, PhD*



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# TOXICOLOGY

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9:45 a.m. - 10:00 a.m. **H135 Forensic Applications of Postmortem Pharmacogenomics**  
*Jeffrey M. Jentzen, MD\**

10:00 a.m. - 10:15 a.m. **Break**  
*Supported by: Lipomed, Inc.*  
*United Chemical Technologies, Inc. (UCT, Inc.)*

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## Multidisciplinary Session: Pathology/Biology Session II/Toxicology — Postmortem Forensic Toxicology (continued)

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*Moderator: Giancarlo Di Vella, MD, PhD*  
*University of Torino*  
*Department of Public Health Sciences*  
*Torino, ITALY*

*Co-Moderator: William R. Johnson, BA*  
*Wisconsin State Lab of Hygiene*  
*Toxicology Section*  
*Madison, WI*

10:15 a.m. - 10:30 a.m. **K57 The Use of a Forensic Case Management System to Deliver Evidence-Based Science and Research**  
*Dimitri Gerostamoulos\*;* *Jennifer L. Pilgrim*

10:30 a.m. - 10:45 a.m. **K58 Fluoxetine Toxicity — Pharmacogenomics, Drug Interactions, and Dosage Converge to Create the Perfect Storm: A Case Report**  
*Thomas C. Kupiec, PhD\*;* *Min Wei, PhD;* *Zeil Rosenberg, MD;* *Debra L. Lyon, JD*

10:45 a.m. - 11:00 a.m. **H136 Multi-Site Aspects of Postmortem Redistribution (PMR) and Their Combination With Pathological Findings to Determine Cause of Death (COD) in Suspected Diazepam, Methadone, and Morphine Drug-Related Cases**  
*Eric Lemaire, MD, PhD\*;* *Carl J. Schmidt, MD*

11:00 a.m. - 11:15 a.m. **H137 Postmortem Detection of Despropionyl Fentanyl (DPF) in Drug-Related Deaths**  
*Peter Mazari, MD\*;* *Rebecca Jufer Phipps, PhD;* *Mary G. Ripple, MD;*  
*David R. Fowler, MD*

11:15 a.m. - 11:30 a.m. **H138 Drop Dead Again: Surge of Deaths Attributed to Fentanyl Analogues in Cook County, Illinois**  
*Kimberly M. Golden, MD\*;* *Peter J. Koin, PhD;* *Ponni Arunkumar, MD;*  
*Adrienne Segovia, MD*

11:30 a.m. - 11:45 a.m. **K59 The First Case of Loperamide Toxicity in Jefferson County, Alabama**  
*Daniel Atherton\*;* *Daniel W. Dye, MD;* *Brandi C. McCleskey, MD;* *Rachel C. Beck, PhD*

11:45 a.m. - 12:00 p.m. **K60 Postmortem Tissue Distribution of U-47700 Following Lethal Intoxication and Novel Scheduling in the State of Ohio**  
*Eric S. Lavins, BS\*;* *Cassandra L. Clyde, MFS;* *Douglas E. Rohde, MS;*  
*Kevin G. Shanks, MS;* *Chetan H. Soni, MS;* *Ian T. Brooker, BS;* *Erin C. Reed, JD;*  
*John J. Kucmanic, BS;* *Erin M. Worrell, BSc;* *Leslie E. Lemmerbrock, BS;*  
*Megan E. Fowler, BS;* *Joseph A. Felo, DO;* *Andrea McCollum, MD;*  
*David A. Engelhart, PhD;* *Harold E. Schueler, PhD;* *Thomas P. Gilson, MD*

12:00 p.m. - 1:00 p.m. **Lunch**



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# TOXICOLOGY

## General Forensic Toxicology

*Moderator: Robert Kronstrand, PhD  
National Board of Forensic Medicine  
Department of Forensic Toxicology  
Linköping, SWEDEN*

*Co-Moderator: Chinyere M. Williams, MS  
Berkeley, CA*

- 1:00 p.m. - 1:15 p.m.    **K61**    **On the Statistical Distribution of  $V_{\max}$  for Ethanol Pharmacokinetics**  
*Robert J. Belloto, Jr., PhD\*; Alfred E. Staubus, PharmD, PhD*
- 1:15 p.m. - 1:30 p.m.    **K62**    **The Benefits and Challenges of Implementing Blind Proficiency Testing in Blood Alcohol Analysis**  
*Paula Evans, BS; Aimee R. Grimaldi, MS\*; Callan Hundl, BS; Jackeline Moral, MS; Lori Wilson, BS*
- 1:30 p.m. - 1:45 p.m.    **K63**    **The Simultaneous Determination of Gamma-Hydroxybutyric Acid (GHB) and GHB-Glucuronide (GHB-Gluc) in Urine Using Hydrophilic Interaction Liquid Chromatography-Tandem Mass Spectrometry (HILIC-MS/MS)**  
*Jozlyn C. Gibbs, BS\*; Marianne E. Staretz, PhD; Thomas A. Brettell, PhD*
- 1:45 p.m. - 2:00 p.m.    **K64**    **Forensic Toxicology Findings in 101 Cases of Drug-Facilitated Sexual Assault (DFSA) in the United States**  
*Tais R. Fiorentin, BS\*; Barry K. Logan, PhD*
- 2:00 p.m. - 2:15 p.m.    **K65**    **Buprenorphine and Metabolites in Paired Breast Milk and Maternal and Infant Plasma Specimens**  
*Madeleine J. Swortwood, PhD\*; Allan J. Barnes, BS; Karl B. Scheidweiler, PhD; Lauren M. Jansson, MD; Marilyn A. Huestis, PhD*
- 2:15 p.m. - 2:30 p.m.    **Break**  
*Supported by: Aegis Sciences Corporation*

## Pediatric Postmortem Toxicology

*Moderator: Robert A. Middleberg, PhD  
NMS Labs  
Willow Grove, PA*

*Co-Moderator: Nikolas P. Lemos, PhD  
University of California, San Francisco  
Department of Lab Medicine  
San Francisco, CA*

- 2:30 p.m. - 5:00 p.m.    **K66**    **Postmortem Pediatric Toxicology**  
*Robert A. Middleberg, PhD; Nikolas P. Lemos, PhD; Karen F. Ross, MD\*; Erik D. Christensen, MD\*; Gregory A. Schmunk, MD\*; Laura M. Labay, PhD\**



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# LAST WORD SOCIETY

## Thursday

*Moderator* Kenneth E. Melson, JD  
GWU Law School  
Montclair, VA

*Co-Moderator:* James E. Starrs, LL.M.  
Springfield, VA

- 8:00 p.m. - 8:15 p.m.    **LW1**    **Were Moses and Aaron the First Bioterrorists?**  
*John David Bullock, MD, MPH, MSc\**
- 8:15 p.m. - 8:30 p.m.    **LW2**    **Joyeux Anniversaire, Commissaire! An (Im)Possible Interview With Jules Maigret — The “Mender of Destinies”**  
*Annarita Franza, PhD\*; Vincenzo Lusa, JD\**
- 8:30 p.m. - 8:45 p.m.    **LW3**    **O.J.: If the Case Were Tried Today, What the Science Would Say**  
*Adam Itzkowitz, JD\**
- 8:45 p.m. - 9:00 p.m.    **LW4**    **Investigating Death or Raising the Dead? The Saga of William Wynn Westcott: A 19<sup>th</sup>-Century London Coroner**  
*Alexander Robert Forrest, LL.M.\**
- 9:00 p.m. - 9:15 p.m.    **LW5**    **Double-Induced Suicide of a Father and Adult Daughter: A Case Report**  
*Nemanja Radojevic, MSc\*; Jelena Vucinic, MD; Dragana Cukic, PhD*
- 9:15 p.m. - 9:30 p.m.    **LW6**    **The Mysterious Case of Lori Ruff — Solved!**  
*Colleen M. Fitzpatrick, PhD\*; Reg Brown, BS*
- 9:30 p.m. - 9:45 p.m.    **LW7**    **Do You Do Voodoo? Zombies, Ritual Crime, and Forensic Investigations**  
*Matteo Borrini, PhD\**
- 9:45 p.m. - 10:00 p.m.    **LW8**    **The Tamam Shud Mystery — Old Case, Modern Forensics**  
*Colleen M. Fitzpatrick, PhD\*; Reg Brown, BS; Derek Abbott, 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 2017 AAFS Annual Meeting in New Orleans, LA.

- To present at BYOS.ppt presentations must be in PowerPoint format. 35mm slides are not accepted.
- Proposals must be submitted on this form and accompanied by a “6-slides per page” printout of the presentation and an electronic copy on CD or “flash” drive.
- BYOS is not intended as a forum to present scientific papers. It is designed as a means to present interesting information and/or unusual case(s) that may be educational and blended with humor.
- Speakers should plan on no more than ten minutes in which to present their material. Presentation time (duration) is determined on case-by-case basis.
- 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-slide per page” printout, and the electronic presentation copy should be delivered to the on-site AAFS Staff Office by 4:00 p.m. on Wednesday, February 15, 2017. 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. A BYOS.ppt Program Form also will be placed in each registrant’s meeting packet.

### BYOS PROGRAM FORM

Name and Degree(s): \_\_\_\_\_

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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 educational purposes
- Entertainment

Presentation is:

- A single case
- A series of cases with a common topic
- Multiple cases with unrelated topics
- Other (please specify): \_\_\_\_\_

Briefly describe the material to be presented: \_\_\_\_\_  
\_\_\_\_\_

What are the major points to be emphasized?: \_\_\_\_\_  
\_\_\_\_\_

How will the attendees benefit from this presentation?: \_\_\_\_\_  
\_\_\_\_\_

Is there commercial interest in the material being discussed?:  No  Yes (If yes, please describe): \_\_\_\_\_  
\_\_\_\_\_

How much presentation time is required?: \_\_\_\_\_ minutes      How many PowerPoint slides will be shown?: \_\_\_\_\_

Presenter’s local hotel: \_\_\_\_\_ Room #: \_\_\_\_\_ Phone #: \_\_\_\_\_

**U.S. Cell Phone:** \_\_\_\_\_ **Email you can access while at the meeting:** \_\_\_\_\_

The BYOS agenda and scheduled presentation times will be posted near the BYOS meeting room. If you have any questions, contact Sonya Bynoe at (719) 636-1100, or at the on-site AAFS Staff Office.

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AAFS STAFF USE ONLY: Date Received: \_\_\_\_\_ Time: \_\_\_\_\_





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- A4, A5

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- Eric J. Bartelink, PhD - W16  
Discloses no financial relationships with commercial entities.
- Tanner Bartholow, MD - H89  
Discloses no financial relationships with commercial entities.
- D.J. Barton, MCJ - I4  
Discloses no financial relationships with commercial entities.
- Martha Bashford, JD - B191, F14  
Discloses no financial relationships with commercial entities.
- Anece Baxter-White, JD - F23  
Discloses no financial relationships with commercial entities.
- Lindsey A. Bayer, MS - E26  
Discloses no financial relationships with commercial entities.
- Rachel C. Beck, PhD  
Discloses no financial relationships with commercial entities.  
- K48  
University of Alabama at Birmingham, Department of  
Pathology (Employee). - K48  
IonSense, Inc, Waters Corporation (Discussion of  
Commercial Products or Services and Paid Consultant). - B60
- Peter J. Belcastro, Jr., MA - W23  
Discloses no financial relationships with commercial entities.
- Robert J. Belloto, Jr., PhD - K61  
Discloses no financial relationships with commercial entities.
- M. Eric Benbow, PhD - H130, W22  
National Institute of Justice (Grant Support).
- Ahmed Mamdouh Bendary, PhD - E16  
Discloses no financial relationships with commercial entities.
- Mark Benecke, PhD - B171  
Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

- Dyer Bennett, BS - W21  
Sirchie (Discussion of Commercial Products or Services, Employee).  
Nikon, Inc (Discussion of Unlabeled/Investigational Use of Product/Device).
- Lindsay D. Bennett, PhD - B189  
Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).  
The George Washington University (Other Financial/Material Support).
- Michèle Bentz - H88  
Rättsmedicinalverket, Sweden (Employee).
- Jacqueline M. Berger - A59  
Discloses no financial relationships with commercial entities.
- Jason Berger, MS - B40  
New York City Police Department (Employee).
- Brianna B. Bermudez, BS  
Alconox, Inc, Applied Biosystems, Bio-Rad Laboratories, Inc, EMD Millipore (Discussion of Commercial Products or Services). - B181  
National Institute of Justice (Grant Support). - B181  
Discloses no financial relationships with commercial entities. - S2
- Giuseppe Bertozzi, MD - E108  
Discloses no financial relationships with commercial entities.
- Jonathan D. Bethard, PhD - A53  
Discloses no financial relationships with commercial entities.
- Brittany N. Beyer, MS - S2  
Discloses no financial relationships with commercial entities.
- Prashantha Bhagavath, MD - H145  
Discloses no financial relationships with commercial entities.
- Zumrad U. Bhutta, MS - J21  
Discloses no financial relationships with commercial entities.
- Hannah Elysse Bielamowicz, MD - H37  
Discloses no financial relationships with commercial entities.
- Farshaad Bilimoria, MD - H120  
Discloses no financial relationships with commercial entities.
- Brittania J. Bintz, MSc - B49  
Bio-Rad Laboratories, Inc, Illumina, Inc (Discussion of Commercial Products or Services).  
National Institute of Justice, Western Carolina University (Grant Support).
- Cate E. Bird, PhD - A114  
Discloses no financial relationships with commercial entities.
- Sandra C. Bishop-Freeman, PhD - K54  
Discloses no financial relationships with commercial entities.
- Martina Bison-Huckaby - B199  
Discloses no financial relationships with commercial entities.
- Julie L. Bitter, PhD - B159, B160  
National Institute of Standards and Technology (Employee).
- Casey P. Bitting, DO - H8  
Discloses no financial relationships with commercial entities.
- Brooke Blake, MD - H21  
Discloses no financial relationships with commercial entities.
- Melissa M. Blessing, DO - H79  
Discloses no financial relationships with commercial entities.
- Trevor Bobka, BS - C2  
AccessData, Canon, Inc, Open Source Digital Forensics, Postrigan, D., Western Digital Corporation (Discussion of Commercial Products or Services).
- Silvia Boca - H68  
Discloses no financial relationships with commercial entities.
- Richard Boguslaw, DMD - G12  
Discloses no financial relationships with commercial entities.
- Thomas Boise - B28  
Apple Inc, Raspberry Pi Foundation, Samsung (Discussion of Commercial Products or Services and Unlabeled/Investigational Use of Product/Device).  
FCSM, TOUR, Towson University (Grant Support).
- Katelyn L. Bolhofner, MA - A3  
Discloses no financial relationships with commercial entities.
- Alice B. Boone, BSc - B147  
Office of Naval Research (Grant Support).
- Noriko B. Boorberg, DMD - G13  
Discloses no financial relationships with commercial entities.
- Andrea M. Borchardt, MS - B179  
Discloses no financial relationships with commercial entities.
- Matteo Borrini, PhD  
Liverpool John Moores University (Employee). - A12  
Discloses no financial relationships with commercial entities. - A13, A50, E56, I19, LW7
- Nikhil Bose, BS - B198  
Discloses no financial relationships with commercial entities.
- Ingrid Bosman, PhD - K47  
Discloses no financial relationships with commercial entities.
- Sabra R. Botch-Jones, MS, MA - B113, F8  
Discloses no financial relationships with commercial entities.
- Diana Botluk, JD - W22  
Discloses no financial relationships with commercial entities.
- Donna C. Boyd, PhD - A107  
Discloses no financial relationships with commercial entities.
- Nikolai A. Braun, PhD - B110  
Army Small Business Technology Transfer Program (Grant Support).
- Robert J. Bready, MS - E93  
Discloses no financial relationships with commercial entities.
- Jeremy C. Brehmer, JD - F6, F7, F45  
Discloses no financial relationships with commercial entities.
- Eva Brencicova, MD - B174  
Discloses no financial relationships with commercial entities.
- Charles H. Brenner, PhD  
Brenner, C., Cybergenetics, Institute of Environmental Science and Research (Discussion of Commercial Products or Services). - B188  
Discloses no financial relationships with commercial entities. - F18
- Shanley Brezen, BS - E76  
Department of Homeland Security (Employee).
- Alice Briones, DO - H55  
Discloses no financial relationships with commercial entities.
- Eddy B. Brixen, BA - C9  
Discloses no financial relationships with commercial entities.





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## FINANCIAL DISCLOSURE

Ryan P. Brokaw, MFS - W11

Discloses no financial relationships with commercial entities.

Bobbi-Jean Brooks, BSc - A108

Discloses no financial relationships with commercial entities.

Sydney Brooks, BS - B71

National Institute of Justice (Grant Support).

Helmut G. Brosz, BAsC, PEng - D17, D31

Discloses no financial relationships with commercial entities.

Carrie A. Brown, PhD - A117

Joint POW/MIA Accounting Command, Oak Ridge Institute for Science and Education (Employee).

Courtney L. Brown - K9

Discloses no financial relationships with commercial entities.

Richard S. Brown, MS - D38

Takata Corporation (Discussion of Commercial Products or Services).

MVA Scientific Consultants (Employee).

Ann M. Bruhn, MS - G37

Discloses no financial relationships with commercial entities.

Adrienne L. Brundage, PhD - E71

Discloses no financial relationships with commercial entities.

Erica K. Brunelle, BSc - E8, E9, E55, E95

University at Albany, State University of New York (Employee).

Ronald Brunelli - BS1, E24

Discloses no financial relationships with commercial entities.

Thomas J. Bruno, PhD - B19

Discloses no financial relationships with commercial entities.

Cynthia Brzozowski, DMD - W6

Discloses no financial relationships with commercial entities.

Helio Buchmuller, PhD - F32

Discloses no financial relationships with commercial entities.

Bruce Budowle, PhD - B210

Copan Diagnostics, Inc (Discussion of Commercial Products or Services and Unlabeled/Investigational Use of Product/Device).

University of North Texas Health Science Center (Employee).

Kristi Bugajski, PhD - F41, H90

Discloses no financial relationships with commercial entities.

John David Bullock, MD, MPH, MSc - LW1

Discloses no financial relationships with commercial entities.

Zachary M. Burcham, BS - H96

National Institute of Justice (Grant Support).

Ted M. Burkes, BS - J2

Discloses no financial relationships with commercial entities.

Bryan R. Burnett, MS - B175, E74

Discloses no financial relationships with commercial entities.

JoAnn Buscaglia, PhD - B165, B166

Federal Bureau of Investigation (Employee).

Marissa Bussard - E11

Applied Biosystems (Discussion of Commercial Products or Services).

Marshall University (Other Financial/Material Support).

Amelia A. Bussell, MSFS - H95

Illumina, Inc, Schloss, P. (Discussion of Commercial Products or Services).

Blaine Butler, BS - B110

Army Small Business Technology Transfer Program (Grant Support).

John M. Butler, PhD - B202

National Institute of Standards and Technology (Employee). - B202

Discloses no financial relationships with commercial entities. - S2

Jason H. Byrd, PhD - S2, W15

Discloses no financial relationships with commercial entities.

John E. Byrd, PhD - A63

Discloses no financial relationships with commercial entities.

Joan A. Bytheway, PhD

National Institute of Justice (Grant Support). - A124

Discloses no financial relationships with commercial entities. - S2

### C

Sara C. Zapico, PhD - H81

Discloses no financial relationships with commercial entities.

Mary E. Cablk, PhD - E21

Desert Research Institute (Employee).

Michael Cain, Jr. - B58

Kevley Technologies, PIKE Technologies (Discussion of Commercial Products or Services).

National Institute of Justice, Office of Justice Programs, U.S. Department of Justice (Grant Support).

Roberto Cameriere - G23

Discloses no financial relationships with commercial entities.

Jonathan A. Cammack, PhD - W22

Discloses no financial relationships with commercial entities.

Sarah E. Canty, BSc - A50

Discloses no financial relationships with commercial entities.

Fiorella Caputo, MD - H113, H114

Discloses no financial relationships with commercial entities.

Felice F. Carabellese, MD - I17, I38

Discloses no financial relationships with commercial entities.

William Cardasis, MD - I34

Discloses no financial relationships with commercial entities.

Anthony R. Cardoza, DDS - G39, W6

Discloses no financial relationships with commercial entities.

Delida I. Caridi, PhD - A111

The National Scientific and Technical Research Council (Grant Support).

John J. Carney, JD - F10

Discloses no financial relationships with commercial entities.

Kelsey A. Carpenter, MS - A82

Discloses no financial relationships with commercial entities.

Marla E. Carroll, BS - S1

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

Claire M. Cartozzo, MS

Applied Biosystems, Craftsman®, Onset Computer Corporation, QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services). - B131  
Applied Biosystems, Beckman Coulter, Inc, Craftsman®, Illumina, Inc, Onset Computer Corporation, Promega Corporation, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services). - H10

Mary E.S. Case, MD - W10

Discloses no financial relationships with commercial entities.

Matthew Case, PhD - C15

Discloses no financial relationships with commercial entities.

Eoghan Casey, PhD

Discloses no financial relationships with commercial entities.  
- C17, C30, C33

University of Lausanne (Employee). - H10

Anna Cassano, PsyD - I2

Discloses no financial relationships with commercial entities.

Pierre G. Cassigneul, MA - W18

Discloses no financial relationships with commercial entities.

Claudia Castiglioni - H139

Discloses no financial relationships with commercial entities.

Anna Y. Castillo - W11

Discloses no financial relationships with commercial entities.

Philippe Cathala, MD - H140

Discloses no financial relationships with commercial entities.

William D. Cawley, BA - A56

Discloses no financial relationships with commercial entities.

Minho Cha, MS - A48

Discloses no financial relationships with commercial entities.

Elise Champeil, PhD - B163

Discloses no financial relationships with commercial entities.

Arthur S. Chancellor, MA - W9

Discloses no financial relationships with commercial entities.

Christopher P. Chany, MS - B155

Discloses no financial relationships with commercial entities.

Carole E. Chaski, PhD - D21, W17

Discloses no financial relationships with commercial entities.

Lindsay Cheeseman - B30

Agilent Technologies (Discussion of Commercial Products or Services).

Agilent Technologies, RTI International (Other Financial/Material Support).

National Institute of Justice, Forensic Technology Center of Excellence (Grant Support).

Feng Chen, MD - H133

Jiangsu University of Science and Technology, National Natural Science Foundation of China (Grant Support).

Heather I. Chen, BA - H112

Discloses no financial relationships with commercial entities.

Waldon Chen, BSc - B12

Discloses no financial relationships with commercial entities.

Elizabeth Chesna, BS - I18

QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

Sam Houston State University (Other Financial/Material Support).

Sara Chierici - H27, I30

Discloses no financial relationships with commercial entities.

Jeffrey D. Chmiel, MS - K28

Discloses no financial relationships with commercial entities.

Hae Joung Cho - A48

Discloses no financial relationships with commercial entities.

Shelley Choudhury, BS - H111

University of Tennessee Health Science Center (Grant Support).

Alexander F. Christensen, PhD - A112

United States Department of Defense (Employee).

Angi M. Christensen, PhD - A103

Discloses no financial relationships with commercial entities.

Erik D. Christensen, MD - K66

Discloses no financial relationships with commercial entities.

Hee-Sun Chung, PhD - K32

Korea Research Foundation (Grant Support).

Jennifer D. Churchill, PhD - B195

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

University of North Texas Health Science Center (Employee).

Heather Ciallella, BS - K22

Arcadia University (Other Financial/Material Support).

Matthew Ciano - B64

University of New Haven Forensic Science Department (Other Financial/Material Support).

Mauro A. Ciavarella - H108

Discloses no financial relationships with commercial entities.

Stephen J. Cina, MD - H87

Discloses no financial relationships with commercial entities.

Maria Susana Ciruzzi, PhD - F34

Discloses no financial relationships with commercial entities.

Chaunesty Clemmons, BA - A92

Discloses no financial relationships with commercial entities.

Morgan M. Clothier, BS - B123

Discloses no financial relationships with commercial entities.

Samantha W. Coberly, MS - A55

Discloses no financial relationships with commercial entities.

Michael D. Coble, PhD

Discloses no financial relationships with commercial entities.

- B102

ESRABI (Discussion of Commercial Products or Services).

- B185

National Institute of Standards and Technology (Employee).

- B185

Ashley Cochran, BS - B152

Discloses no financial relationships with commercial entities.

Kelly L. Coffman, MD - I25

Discloses no financial relationships with commercial entities.

Marc A. Cohen, MD - I21

Discloses no financial relationships with commercial entities.





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## FINANCIAL DISCLOSURE

Caitlynn Cole - A35

Discloses no financial relationships with commercial entities.

Mary E. Cole, MA - A86

Discloses no financial relationships with commercial entities.

Stephanie J. Cole, BA - A44

National Institute of Justice (Grant Support).

Carmen Coles, MD - H59

Discloses no financial relationships with commercial entities.

Edgar A. Collins VI, MFS - W11

Discloses no financial relationships with commercial entities.

Derek Congram, PhD - A30

Discloses no financial relationships with commercial entities.

Aime Conigliaro, MSc - G47

Discloses no financial relationships with commercial entities.

Melissa A. Connor, PhD - E111

National Institute of Justice (Grant Support).

Autumn C. Cooper, BS - E104

University of Cape Town (Discussion of Commercial Products or Services).

National Institute of Drug Abuse, National Institutes of Health (Grant Support).

Gail Audrey Ann Cooper, PhD

NYC Office of Chief Medical Examiner (Employee). - K55

Discloses no financial relationships with commercial entities. - W8

Glinda S. Cooper, PhD - F30

Innocence Project (Employee).

Michelle Corbally, MS - B11

University of California, Davis Forensic Science Program, Bureau of Alcohol, Tobacco, Firearms, and Explosives (Other Financial/Material Support).

Tracey S. Corey, MD - H87, W10

Discloses no financial relationships with commercial entities.

Anna Cornacchio - E108

Discloses no financial relationships with commercial entities.

Kari Coronado, MFS - E10

Discloses no financial relationships with commercial entities.

Gustavo Costa, MS - F2

Discloses no financial relationships with commercial entities.

Carrie Costello, BA - L1

Discloses no financial relationships with commercial entities.

Sulekha Coticone, PhD - B134

Life Technologies Corporation (Discussion of Commercial Products or Services).

Florida Gulf Coast University (Employee).

Robin W. Cotton, PhD - B179

Discloses no financial relationships with commercial entities.

Jordan Cox, MS - B98

Applied Biosystems, Clontech Laboratories, Inc, TaKaRa Bio Inc (Discussion of Commercial Products or Services).

FSF Lucas Grant, VCU Quest (Grant Support).

Stefano Crenna, MD - K11

Discloses no financial relationships with commercial entities.

Frank Crispino, PhD - E107

Discloses no financial relationships with commercial entities.

Thomas A. Crist, PhD - E51

Discloses no financial relationships with commercial entities.

Rosa L. Cromartie, BS - B7

Florida International University (Grant Support).

Shannon Crook, MD - H104

Discloses no financial relationships with commercial entities.

Christian Crowder, PhD - A119

Harris County Institute of Forensic Sciences (Employee).

Carol Crowe, BS - B154

CBI employee salary (Employee).

Kendall V. Crowns, MD - D28

Discloses no financial relationships with commercial entities.

Jeff S. Crusier, BA - E83

Houston Forensic Science Center (Employee).

Lorraine E. Cuadra, PhD - I39

Discloses no financial relationships with commercial entities.

Maria Cucci, MD - H113, H114

Discloses no financial relationships with commercial entities.

Maria Cuellar, MS - W14

Discloses no financial relationships with commercial entities.

Eugenia Cunha, PhD - A104, S2

Discloses no financial relationships with commercial entities.

David Cunningham, PhD - B16

IonSense (Discussion of Commercial Products or Services and Unlabeled/Investigation Use of Product/Device).

Eastern Kentucky University (Employee).

Phillip M. Curran, MFS - W11

Discloses no financial relationships with commercial entities.

Serena Maria Curti, MD - C28, I1

Discloses no financial relationships with commercial entities.

A. Joanne Curtin, PhD - A95

Discloses no financial relationships with commercial entities.

## D

Monica D'Amato, MD - H45

Discloses no financial relationships with commercial entities.

Corinne D'Anjou, DMD - G40, G41

Discloses no financial relationships with commercial entities.

Amanda D'Orazio - K43

National Highway Traffic Safety Administration (Grant Support).

Ashley C. Dafoe - A36

Smithsonian Women's Committee, National Science Foundation, Research Experiences for Undergraduates (Grant Support).

Deanna-Kaye D. Daley - B122

McNair Scholar Grant from Xavier University of Louisiana (Grant Support).

Franklin E. Damann, PhD - A60

United States Department of Defense (Employee).

William C. Darby, MD - I37

Discloses no financial relationships with commercial entities.

Andrea A. Darvas, JD - F26

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

Carole A.L. Davenport, BSc - A42, E94

Discloses no financial relationships with commercial entities.

Jay T. Davidson, BS - B26

Agilent Technologies (Discussion of Commercial Products or Services).

Lucy A. Davis, BHS - W18

Discloses no financial relationships with commercial entities.

Donald M. Dawes, MD - E46

TASER International (Discussion of Commercial Products or Services and Paid Consultant).

Josep De Alcaraz-Fossoul, PhD - E57

Discloses no financial relationships with commercial entities.

Debora De Bartolo, MD - E13, E89, H110, I31, K1

Discloses no financial relationships with commercial entities.

Dean Michael De Crisce, MD - S2

Discloses no financial relationships with commercial entities.

Peter R. De Forest, DCrim - B34

Discloses no financial relationships with commercial entities.

Yanel M. De los Santos, BS - H53

Discloses no financial relationships with commercial entities.

Ester de Luca, MD - E13, H110, I31

Discloses no financial relationships with commercial entities.

Jannick De Tobel, MD - G7

Discloses no financial relationships with commercial entities.

Veronique F. Delattre, DDS - G44

3M, BruxZir, GC, NobelProcera, Kerr, (Discussion of Commercial Products or Services).

University of Texas School of Dentistry's 2016 Summer Research Program (Other Financial/Material Support).

Olivier Delémont, PhD - B78, B88, B145

Discloses no financial relationships with commercial entities.

Sharon M. Derrick, PhD - H142

Discloses no financial relationships with commercial entities.

Vincent J. Desiderio, Jr., MS - B206

United States Postal Inspection Service (Employee).

Sylvain Desranleau, DMD - G31

Vuidel, G., (Discussion of Commercial Products or Services).

Anna N. Dhody, MFS - W13

Facebook Inc, Hootsuite Media Inc, Snap Inc, Twitter Inc, YouTube, LLC (Discussion of Commercial Products or Services).

College of Physicians of Philadelphia (Employee).

Alessandro Di Luca, MD - H74

Discloses no financial relationships with commercial entities.

Ciro Di Nunzio, MFS, PhD - E86, H30, H70, H71

Discloses no financial relationships with commercial entities.

Giancarlo Di Vella, MD, PhD - B127, H54

Discloses no financial relationships with commercial entities.

Peter J. Diaczuk - B39, W3

Discloses no financial relationships with commercial entities.

Mark S. Dias, MD - W10

Discloses no financial relationships with commercial entities.

Hannah Dibner, BA - H6

Reconyx (Discussion of Commercial Products or Services).

Jason Dickmeyer - B29

Discloses no financial relationships with commercial entities.

Khalifa Dieng, DDS - G46

Discloses no financial relationships with commercial entities.

Clare M. Diester, BS - B197

Affymetrix, Oxford Nanopore Technology (Discussion of Commercial Products or Services).

Park E. Dietz, MD, PhD - I21

Discloses no financial relationships with commercial entities.

Elizabeth A. DiGangi, PhD - A53

Discloses no financial relationships with commercial entities.

Dennis C. Dirkmaat, PhD - E113

Discloses no financial relationships with commercial entities.

Daniela Djidrovaska - J6

INTERPOL (Employee).

Jeannie Do, BS - B213

Discloses no financial relationships with commercial entities.

Stephanie Domitrovich, JD, PhD - F21, F22, F33, J23, S1, W22

Discloses no financial relationships with commercial entities.

Laura Donato - A39

Discloses no financial relationships with commercial entities.

Joseph Donfack, PhD - B132

Federal Bureau of Investigation Laboratory (Employee).

Hongmei Dong - H125

Discloses no financial relationships with commercial entities.

Kyle C. Doty, BS - B90

National Institute of Justice, Office of Justice Programs, United States Department of Justice (Grant Support).

Elizabeth A. Douglas, MD - H62

Discloses no financial relationships with commercial entities.

Lotte Downey, MSc - B9

Promega Corporation (Discussion of Commercial Products or Services and Employee).

Rachel E. Downey - B148

Penn State University (Other Financial/Material Support).

Steven L. Downs, MFS - W21

Methodist University (Discussion of Commercial Products or Services), Methodist University (Employee).

Rory M. Doyle, PhD - K29, K30

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services and Employee).

Derek M. Draft, DDS - G5

Microsoft Corporation (Discussion of Commercial Products or Services).

Jasmine M. Drake, PhD - B149

Texas Southern University (Other Financial/Material Support).

Sam Houston State University (Employee).

Gwenola Drogou, DDS - G45

Discloses no financial relationships with commercial entities.

Diana Blair Drvostep, DDS - G4

Discloses no financial relationships with commercial entities.

Beatrix Dudzik, PhD - A24

Discloses no financial relationships with commercial entities.

Ivan Duvall - J24

National Institute of Justice (Grant Support).

Lauren E. Dvorscak, MD - H47

Discloses no financial relationships with commercial entities.



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## FINANCIAL DISCLOSURE

R. Gregg Dwyer, MD, EdD - I4, I32  
Discloses no financial relationships with commercial entities.  
Lindsey N. Dyn, MFS - W23  
Discloses no financial relationships with commercial entities.

### E

William Charles Easttom II, MBA - C22  
Discloses no financial relationships with commercial entities.  
Melanie Eckberg, BS - K17  
National Institute of Justice, Agilent Technologies  
(Grant Support).  
Suni M. Edson, MS - B184  
Promega Corporation, QIAGEN, Inc, Thermo Fisher Scientific  
Inc (Discussion of Commercial Products or Services).  
American Registry of Pathology (Employee).  
Carl N. Edwards, JD, PhD - F33  
Discloses no financial relationships with commercial entities.  
Lorraine D. Edwards, MS - K45  
Wisconsin State Lab of Hygiene (Grant Support).  
Christen C. Eggers, MS - G28  
Discloses no financial relationships with commercial entities.  
Heidi Eldridge, MS - B170, B202, W1  
RTI International, National Institute of Justice (Employee).  
Albert A. Elian, MS - K6  
Discloses no financial relationships with commercial entities.  
Louis N. Eliopoulos, BA - W11  
Discloses no financial relationships with commercial entities.  
Kelly M. Elkins, PhD - B28  
Apple Inc, Raspberry Pi Foundation, Samsung (Discussion of  
Commercial Products or Services and  
Unlabeled/Investigational Use of Product/Device).  
Towson University School of Emerging Technologies,  
Maryland Technology Development Corporation (Employee).  
Sarah Ellingham, PhD - A16  
Discloses no financial relationships with commercial entities.  
Christina M. Elliott, BA - E84  
Discloses no financial relationships with commercial entities.  
Kyleen Elizabeth Elwick, BA - B46s  
Applied Biosystems, Thermo Fisher Scientific Inc (Discussion  
of Commercial Products or Services).  
National Institute of Justice Sam Houston State University  
(Grant Support).  
Paul D. Emanovsky, PhD - A77  
Discloses no financial relationships with commercial entities.  
Alexandra L. Emmons, MA - A37  
Discloses no financial relationships with commercial entities.  
Roxana Enriquez, MA - W16  
Discloses no financial relationships with commercial entities.  
Sandra R. Enslow, BA - E81  
Discloses no financial relationships with commercial entities.  
Trevor R. Equitz, MA - B140  
Discloses no financial relationships with commercial entities.

Anders Eriksson, MD, PhD - H44  
Discloses no financial relationships with commercial entities.  
David D. Evanoff, Jr., PhD - B91  
Copan Italia, HORIBA Ltd (Discussion of Commercial  
Products or Services).  
National Institute of Justice, National Science Foundation,  
Western Carolina University (Grant Support).

### F

Maxwell Christopher Fabricant, JD - W6  
Discloses no financial relationships with commercial entities.  
Stella Fahrni - D33  
Discloses no financial relationships with commercial entities.  
Gerencio C. Fajardo, MD - E62  
Discloses no financial relationships with commercial entities.  
Barbara L. Fallon, MS - B157  
Oak Ridge Institute for Science and Education (Other  
Financial Material Support).  
Kim Fallon, BS - E67  
Discloses no financial relationships with commercial entities.  
Anthony B. Falsetti, PhD - W7  
Discloses no financial relationships with commercial entities.  
James P. Fancher, DDS, PhD - G43  
Discloses no financial relationships with commercial entities.  
Ashleigh M. Faris, MA - H91  
Discloses no financial relationships with commercial entities.  
J. Paul Fedoroff, MD - I4, I32  
Discloses no financial relationships with commercial entities.  
William Feeney, BS - B153  
National Institute of Justice (Grant Support).  
Alan R. Felthous, MD - I40  
Discloses no financial relationships with commercial entities.  
Todd W. Fenton, PhD - A69  
Discloses no financial relationships with commercial entities.  
Lyndsie N. Ferrara, MS - E98  
Discloses no financial relationships with commercial entities.  
Stephen J. Ferrazzano II, JD - I32  
Discloses no financial relationships with commercial entities.  
Jillian C. Fesolovich, MSFS - B93  
Integrated DNA Technologies, Kapa Biosystems (Discussion  
of Commercial Products or Services).  
Arcadia University, The Center for Forensic Science  
Research and Education (Other Financial/Material Support).  
Alejandra Figueroa, BSc - B130  
Illumina, Inc, Thermo Fisher Scientific Inc (Discussion of  
Commercial Products or Services).  
FONDECYT - The National Fund for Scientific and  
Technological Development (Grant Support).



# FINANCIAL DISCLOSURE

Cristina Figueroa-Soto, MA - W2

France Casting, NextEngine (Discussion of Commercial Products or Services).

National Institute of Justice, Slice and Algee-Hewitt (Grant Support).

The University of Tennessee - Thomas Fellowship (Other Financial/Material Support). - A46

Thomas Michael Fink, MA - A64

Discloses no financial relationships with commercial entities.

Sheree J. Finley, MS - H146

Discloses no financial relationships with commercial entities.

Tais R. Fiorentin, BS

CAPES (Grant Support). - K16

Discloses no financial relationships with commercial entities. - B144, K64

Barry A.J. Fisher, MS, MBA - B199, F19

Discloses no financial relationships with commercial entities.

David R. Fisher, MS - B104

MicroLab (Discussion of Commercial Products or Services and Other Financial/Material Support).

Colleen M. Fitzpatrick, PhD - LW6, LW8

Discloses no financial relationships with commercial entities.

Richard H. Fixott, DDS - G17

Discloses no financial relationships with commercial entities.

Julie M. Fleischman, MS - W16

Discloses no financial relationships with commercial entities.

Nora Fawzy Fnon, MSc - H80

Discloses no financial relationships with commercial entities.

Patricia A. Foley-Melton, PhD - W24

RTI International Center for Forensic Science (Employee).

Luis Fondebrider, PhD - W16

Discloses no financial relationships with commercial entities.

David R. Foran, PhD - E54

National Institute of Justice (Grant Support).

Alexander Robert Forrest, LLM - LW4

Discloses no financial relationships with commercial entities.

Palmira Fortarezza, MS - E108

Discloses no financial relationships with commercial entities.

Francesca Fossati, MD - H113, H114

Discloses no financial relationships with commercial entities.

Sherry C. Fox, PhD - A70

Discloses no financial relationships with commercial entities.

Lara Frame-Newell, MA - E59

Office of the Chief Medical Examiner-Virginia (Employee).

Diane L. France - W2

France Casting, NextEngine, Inc. (Discussion of Commercial Products or Services). - W2

Sabine Franckenberg, MD - E44

Bayer Pharma AG (Discussion of Commercial Products or Services).

Annarita Franza, PhD - LW2

Discloses no financial relationships with commercial entities.

Giulio Fraternali Orcioni, MD - H113, H114

Discloses no financial relationships with commercial entities.

Tierra M. Freeman, PhD - J24

National Institute of Justice (Grant Support).

Clare M. Fried, BS - B55

Albrayco Technologies, Inc (Discussion of Commercial Products or Services).

Jacqui Friedling, PhD - A38

National Research Foundation (Grant Support).

Amanda N. Friend, MA - A94

Discloses no financial relationships with commercial entities.

Richard C. Fries, DO - H148

Discloses no financial relationships with commercial entities.

Katya Frischer, MD - I10

Discloses no financial relationships with commercial entities.

Melissa Friscia, MSFS

Centre for Forensic Science Research and Education (Employee). - K33, W5

National Institute of Justice (Grant Support) - K33

Giampietro Frison - K52

Discloses no financial relationships with commercial entities.

Laura C. Fulginiti, PhD

Discloses no financial relationships with commercial entities. - A3

Maricopa County Office of the Medical Examiner (Employee). - A71, G36

Christine Funk, JD - B179

Discloses no financial relationships with commercial entities.

Winnie Furnari, MS - G21

Discloses no financial relationships with commercial entities.

Angeliki Fydanaki, MFS - C14

Google Inc, Open Source Products (Discussion of Commercial Products or Services).

Netherlands Forensic Institute (Employee).

## G

Roberto Gagliano Candela, PhD - K8

Discloses no financial relationships with commercial entities.

Aisling Galligan, MSc - H39

Discloses no financial relationships with commercial entities.

Jamie Gallimore, BS - E102

Discloses no financial relationships with commercial entities.

Alison Galloway, PhD - A67

Discloses no financial relationships with commercial entities.

Lauren Gandy - E2

University of Central Florida, Office of Undergraduate Research (Grant Support).

Jan C. Garavaglia, MD - ES1

Discloses no financial relationships with commercial entities.

Lynn Garcia, JD - W6

Discloses no financial relationships with commercial entities.

M. Julia Garcia de Leon Valenzuela, MSc - A7

Discloses no financial relationships with commercial entities.

Taylor L. Gardner, BfSc - A131, G22

Discloses no financial relationships with commercial entities.

Luciano Garofano, PhD - F17, I19

Discloses no financial relationships with commercial entities.



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2017

## FINANCIAL DISCLOSURE

- Shelby Garza - A102  
National Institute of Justice (Grant Support).
- Monika Gashi, MD - I10  
Discloses no financial relationships with commercial entities.
- Marc Gaudreau, BSc - J15  
Discloses no financial relationships with commercial entities.
- Vernon J. Geberth, MS, MPS - W4  
Discloses no financial relationships with commercial entities.
- Irina Geiman, MS - BS2  
United States Secret Service (Employee).
- Steven Geniuk, MS - W11  
Discloses no financial relationships with commercial entities.
- Charles E. Georget, PhD - G27  
Discloses no financial relationships with commercial entities.
- Zeno J. Geradts, PhD  
Google Inc, Open Source Products (Discussion of Commercial Products or Services). - C14  
Netherlands Forensic Institute (Employee). - C14, C21, W18  
Align and Yuneec, Dà-Jiāng Innovations Science and Technology Co., Ltd, 3D Robotics (Discussion of Commercial Products or Services). - C21
- Dimitri Gerostamoulos - K57  
Dept of Justice, Victoria, Australia (Employee).
- Katherine B. Gettings, PhD - B192  
Illumina, Inc (Discussion of Commercial Products or Services).  
National Institute of Standards and Technology, Federal Bureau of Investigation (Employee).
- Sara M. Getz, MS - A89  
National Science Foundation Doctoral Dissertation Research Improvement (Grant Support).
- Ayman Ghazawi, BA - J19  
United Nations Office on Drugs and Crime (Grant Support).
- Paola Giannetakis, PhD - C29  
Discloses no financial relationships with commercial entities.
- Jozlyn C. Gibbs, BS - K63  
MACHERY-NAGEL GmbH & Co. (Discussion of Commercial Products or Services).
- Georgiana C. Gibson-Daw, MS - B99  
Streck, Inc, Thermal Gradient (Discussion of Commercial Products or Services).  
National Institute of Justice (Grant Support).
- James R. Gill, MD - W10  
Discloses no financial relationships with commercial entities.
- Richard A. Gilliland, BA - K15  
National Institute of Justice (Grant Support).
- Joseph A. Giovannetti, JD - F44  
Discloses no financial relationships with commercial entities.
- Simone Gittelson, PhD - F31  
National Institute of Standards and Technology (Employee).
- Devora S. Gleiber, BA - A97  
Discloses no financial relationships with commercial entities.
- Lindsay Glicksberg, BS - K37  
Agilent Technologies, SPEware (Discussion of Commercial Products or Services).  
National Institute of Justice (Grant Support).
- Timothy P. Gocha, PhD - A81, A141  
Discloses no financial relationships with commercial entities.
- Zachary C. Goecker, BS - B43  
National Institute of Justice (Grant Support).
- Kimberly M. Golden, MD - H138  
Discloses no financial relationships with commercial entities.
- Francisco Valente Gonçalves, MSc - B168, I26  
Marie Skłodowska-Curie actions - Research Fellowship Programme (Grant Support).
- Fatih Gonen - H1  
Discloses no financial relationships with commercial entities.
- James F. Goodrich, BDS - G40, G41  
Discloses no financial relationships with commercial entities.
- Olivia D. Goodwin - B50  
Cybergenetics (Discussion of Commercial Products or Services).  
Cybergenetics, Duquesne University (Other Financial/Material Support).
- Gwyneth W. Gordon, PhD - E42  
Department of Justice (Grant Support).
- Stephen Goudge, LLB - S1  
Discloses no financial relationships with commercial entities.
- W. Neil Gowensmith, PhD - I40  
Discloses no financial relationships with commercial entities.
- Lynsey F. Gozna, PhD - I6, I15  
Discloses no financial relationships with commercial entities.
- Kristopher W. Graf, BS - K49  
NMS Labs (Employee).
- Grant D. Graham, Sr., MFS - W9  
Discloses no financial relationships with commercial entities.
- Abigail J. Grande, MPH - H63  
Discloses no financial relationships with commercial entities.
- Chandler M. Grant, BS - K12  
Applied Biosystems, Hewlett Packard Company, Lehigh County, Restek Corporation, Shimadzu Corporation, Sigma-Aldrich Co. LLC (Discussion of Commercial Products or Services).
- Danielle Green, BS - B32  
University of Central Florida (Grant Support).
- Andrew S. Greenwood, BS - K39  
Discloses no financial relationships with commercial entities.
- Catherine M. Grgicak, PhD - B214  
Life Technologies Corporation, Promega Corporation (Discussion of Commercial Products or Services).  
National Institute of Justice (Grant Support).
- Kiyomi M. Griffey, MFS - W11  
Discloses no financial relationships with commercial entities.
- Catalin Grigoras, PhD - C8  
University of Colorado Denver (Employee). - C8, W12  
Forensic Media Services, Ltd (Discussion of Commercial Products or Services). - W12
- Aimee R. Grimaldi, MS - B85, K62  
Houston Forensic Science Center (Employee).





# FINANCIAL DISCLOSURE

Megan E. Grimes, MFS

Discloses no financial relationships with commercial entities.  
- S2

Applied Biosystems, QIAGEN, Inc (Discussion of  
Commercial Products or Services). - B211

Oak Ridge Institute for Science and Education, Oak Ridge  
Associated Universities - Graduate Fellowship (Other  
Financial/Material Support). - B211

Kelly Grisedale, PhD - B180

Eppendorf AG, F. Hoffmann La Roche Ltd, Illumina, Inc,  
QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of  
Commercial Products or Services).

Western Carolina University (Employee).

Lindsey Anne Grisham, BS - H52

Discloses no financial relationships with commercial entities.

Justin Grover, MS - C20

Samsung (Discussion of Commercial Products or Services).

Kathy L. Gruspier, JD, PhD - A127, A133, G22

Discloses no financial relationships with commercial entities.

Wen Gu, PhD - I14

Discloses no financial relationships with commercial entities.

Mark D. Guido, MS - C20

Samsung (Discussion of Commercial Products or Services).

Kaitlyn Gurule, BS - C11

Discloses no financial relationships with commercial entities.

Torfinn Gustafsson, BM - H64

Discloses no financial relationships with commercial entities.

Ankin Güvencel, MD - H115

Discloses no financial relationships with commercial entities.

## H

Jeffery Hackett, PhD - K6

Discloses no financial relationships with commercial entities.

Sarah V. Hainsworth, PhD - D6, D35

University of Leicester (Employee).

Jan Halánek, PhD - E8, E9, E55, E95

State University of New York, University at  
Albany (Employee).

Amanda R. Hale, MA

National Institute of Justice (Grant Support). - A41

Discloses no financial relationships with commercial entities.  
- S2

Ashley Hall, PhD - B135

Discloses no financial relationships with commercial entities.

Leslie A. Haller, DMD - H32

Discloses no financial relationships with commercial entities.

Christine L. Halling, MS - A116

Discloses no financial relationships with commercial entities.

D'Nisha D. Hamblin, MSFS - B139

Florida International University, National Institute of  
Standards and Technology (Grant Support).

Marianne Hamel, MD, PhD - W13

Figure 1, Instagram, Twitter, Inc (Discussion of  
Commercial Products or Services).

Andrew Hanosh, MD - H134

City and County of Denver (Employee).

Eriek S. Hansen, PhD

RJL Systems (Discussion of Commercial Products  
or Services). - E32, E110

National Institute of Justice (Grant Support). - E110

Bethany Hanson, PhD - E7

Discloses no financial relationships with commercial entities.

Randy L. Hanzlick, MD - H87

Discloses no financial relationships with commercial entities.

Brett E. Harding, MBA - E61

Discloses no financial relationships with commercial entities.

Serena Hare, BS - W21

Methodist University (Employee).

Katherine Hargett, BS - B4

Discloses no financial relationships with commercial entities.

LeAnn M. Harrel, BS - B133

Applied Biosystems, QIAGEN, Inc (Discussion of  
Commercial Products or Services).

Bailey Harrington, MSc - H13

Discloses no financial relationships with commercial entities.

Victoria N. Harrington, MSc - A57

NextEngine, Inc (Discussion of Commercial Products  
or Services).

Stephanie R. Harrold, BS - B20

The Pennsylvania State University (Other  
Financial/Material Support).

Gabrielle A. Hartley - B6

Bluestar Forensics, Sirchie (Discussion of Commercial  
Products or Services).

University of New Haven (Grant Support).

Keith Harward - W6

Discloses no financial relationships with commercial entities.

Neal H. Haskell, PhD - F37, S1

Discloses no financial relationships with commercial entities.

Lauren Havrilla, DO - H16

Discloses no financial relationships with commercial entities.

Michelle M. Hawkins, BSc - A85

University of Central Florida, Department of Anthropology  
(Employee).

Jonathan Hayes, MD - H87

Discloses no financial relationships with commercial entities.

Robert F. Hedges, JD - F15

Cybergenetics, Institute of Environmental Science and Research  
(ESR) (Discussion of Commercial Products or Services).

Joseph T. Hefner, PhD - A121

National Institute of Justice (Grant Support).

Kelly Heim, MA - A79

Discloses no financial relationships with commercial entities.



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## FINANCIAL DISCLOSURE

Emily R. Heinz, BS - B101

Applied Biosystems, Bio-Rad Laboratories, Inc, EMD Millipore, Promega Corporation (Discussion of Commercial Products or Services).

National Institute of Justice (Grant Support).

Ashley Henry, MA - E109

Houston Forensic Science Center (Employee).

Erin Hensel, MSFS - K10

Eli Lilly and Company, Johnson & Johnson Services, Inc, Pfizer, Inc (Discussion of Commercial Products or Services).

Walt Henson, BA - W11

Discloses no financial relationships with commercial entities.

Rodrigo D. Heringer, PhD - E39

Fundacao de Peritos Ilaraine Acacio Arce (Grant Support).

Charles M. Heurich, MFS - W24

Department of Justice, National Institute of Justice (Employee).

Elizabeth A. Hewitt, MFS - B179

Discloses no financial relationships with commercial entities.

R. Austin Hicklin, MS - B165, B166

Federal Bureau of Investigation (Paid Consultant).

Jen Hickok, BS - D19

Discloses no financial relationships with commercial entities.

Jack Hietpas, PhD - W3

Discloses no financial relationships with commercial entities.

Leon G. Higley, PhD - F43

Discloses no financial relationships with commercial entities.

Madeleine J. Hinkes, PhD - A66

Discloses no financial relationships with commercial entities.

Michelle R. Hoffman, MS - D25, D39

Discloses no financial relationships with commercial entities.

Brian Holsey, BS - K56

NMS Labs (Employee).

Allison Holt, PhD - H20

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services and Employee).

Haley E. Horbaly, BS - A20

University of Tennessee, Knoxville Department of Anthropology (Other Financial/Material Support).

Lauren Horsfall, Mrs - D40

University College London, Engineering and Physical Sciences Research Council (Grant Support).

Max M. Houck, PhD - F40

Discloses no financial relationships with commercial entities.

Rachel M. Houston, BS - B95

Applied Biosystems, Eppendorf AG, QIAGEN, Inc (Discussion of Commercial Products or Services).

National Institute of Justice (Grant Support).

Julie A. Howe, MBA - E25

Discloses no financial relationships with commercial entities.

Sarah Howshall, BSc - B151

The Pennsylvania State University Forensic Science Department (Other Financial/Material Support).

Lauren N. Huddle, MD - H144

Discloses no financial relationships with commercial entities.

Marilyn A. Huestis, PhD - K46

Alere, Inc, Drägerwerk AG & Co. KGaA, Immunalysis Corporation (Discussion of Commercial Products or Services). Huestis and Smith Toxicology, LLC (Employee).

Clinton Hughes, JD - F29

Discloses no financial relationships with commercial entities.

Cris E. Hughes, PhD - A5

Discloses no financial relationships with commercial entities.

Julie A. Hull, MD - H35

Discloses no financial relationships with commercial entities.

Cortney N. Hulse, BS - A1

Discloses no financial relationships with commercial entities.

Sarah Humez, MD - A83

Discloses no financial relationships with commercial entities.

Ted R. Hunt, JD - B179

Discloses no financial relationships with commercial entities.

Kenneth D. Hutchins, MD - H119

Discloses no financial relationships with commercial entities.

Crystal Huynh - E8, E9, E55, E95

State University of New York, University at Albany (Employee).

James B. Hyzer, PhD - D8

Discloses no financial relationships with commercial entities.

### I

Sara Iacopini, MD - H147

Discloses no financial relationships with commercial entities.

Samiah Ibrahim, BSc - J17

Discloses no financial relationships with commercial entities.

Nahyok Im, PhD - A48

Discloses no financial relationships with commercial entities.

Daisuke Imoto, MS - D1

Japan Society for the Promotion of Science - KEKENHI (Grant Support).

Eric A. Ingle, BA - K40

Discloses no financial relationships with commercial entities.

Jodi A. Irwin, PhD - B194

Discloses no financial relationships with commercial entities.

Mariyam I. Isa, BS - A136

National Science Foundation Graduate Research Fellowship (Grant Support).

Carolyn V. Isaac, PhD - A80

Discloses no financial relationships with commercial entities.

Daniel S. Isenschmid, PhD - K42

NMS Labs (Discussion of Commercial Products or Services and Employee).

Adam Itzkowitz, JD - LW3

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

## J

Dakota Jackson, PhD - K5

Discloses no financial relationships with commercial entities.

David S. Jackson, BS - B177

U.S. Food and Drug Administration, Forensic Chemistry Center (Employee).

Rebekah Jacques - A130

Discloses no financial relationships with commercial entities.

Hussam Jalamneh, BA - J20

United Nations Office on Drugs and Crime (Grant Support).

Kristen A. James - E45

Discloses no financial relationships with commercial entities.

Yu Ryang Jang, PhD - A48, A49

Discloses no financial relationships with commercial entities.

Brian L. Janysek, MFS - W11

Discloses no financial relationships with commercial entities.

Nazih M.A. Jaradat, BSc - J18

United Nations Office on Drugs and Crime (Grant Support).

Hannah C. Jarvis, MRCS - H122

Discloses no financial relationships with commercial entities.

Gulnaz T. Javan, PhD

National Science Foundation, Forensic Sciences Foundation Lucas Grant (Grant Support). - H94

Discloses no financial relationships with commercial entities. - S2

Roger Jefferys, BS - B38

Cognisys, Inc, FORident Software, Hodgdon, Missouri Bullet Company, Nikon, Inc, Sellier & Bellot, Sturm, Ruger & Co, Winchester, Zerene Stacker (Discussion of Commercial Products or Services).

West Virginia University Department of Forensic and Investigative Science (Other Financial/Material Support).

Kevin Jenkins, MD - H28

Discloses no financial relationships with commercial entities.

Carole Jenny, MD - W10

Discloses no financial relationships with commercial entities.

Robert A. Jensen, BS - W7

Kenyon (Employee).

Silke Jensen - B24

Marie Skłodowska-Curie actions - Research Fellowship Programme (Grant Support).

Jeffrey M. Jentzen, MD - BS3, F21, F22, H135

Discloses no financial relationships with commercial entities.

Yangseung Jeong, PhD - A93

Discloses no financial relationships with commercial entities.

Jennifer J. Jerome, DDS - G48

Discloses no financial relationships with commercial entities.

Sherry Jilinski, MD - H77

Discloses no financial relationships with commercial entities.

Jennie J. Jin, PhD - A110

Discloses no financial relationships with commercial entities.

Anna Jinghede, DDS - E36

Discloses no financial relationships with commercial entities.

Bryan Johnson, MSFS - E28

Discloses no financial relationships with commercial entities.

Jami Johnson, LLD - F18

Discloses no financial relationships with commercial entities.

Graham R. Jones, PhD - W5

Office of the Chief Medical Examiner, Alberta Canada (Employee).

Joseph Jones, MS - W8

Discloses no financial relationships with commercial entities.

John P. Jones II, MBA - B201

National Institute of Standards and Technology (Employee).

Deidra Jordan, BS - B124

Sigma-Aldrich Co. LLC (Discussion of Commercial Products or Services).

NSF Florida Georgia Lois Stokes Alliance for Minority Participation (FGLSAMP) (Other Financial/Material Support).

Heather R. Jordan, PhD - H131, W22

National Institute of Justice, Mississippi State University Startup Package (Grant Support).

Chelsey A. Juarez, PhD

North Carolina State University (Employee). - W19

Society of Forensic Anthropologists (Grant Support). - A75

Carmen Jurado, PhD - W8

Discloses no financial relationships with commercial entities.

## K

Abuzar Kabir, PhD - B31, K51

Discloses no financial relationships with commercial entities.

Joseph B. Kadane, PhD - F4

Colorado Surplus Asset Fund Trust (Grant Support).

Kristy Kadash, PhD - B102, B179

Discloses no financial relationships with commercial entities.

Syed Kaleem Imam, PhD - J21

Discloses no financial relationships with commercial entities.

Shreya Kamath, BS - E3

West Virginia University (Employee).

Kelly R. Kamnikar, MA - A14

National Institute of Justice (Grant Support).

Tatsuyuki Kanamori - B54

Japan Society for the Promotion of Science - KAKENHI (Grant Support).

Carolyn A. Kappen, MD - H122

Discloses no financial relationships with commercial entities.

Erin L. Karschner, PhD - K36

Discloses no financial relationships with commercial entities.

Shabnam Preet Kaur, MSc - J16

Discloses no financial relationships with commercial entities.

Justine Kawa, BS - B3

Sigma-Aldrich Co. LLC, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

University of New Haven (Other Financial/Material Support).

Jason J. Keller, MFS - W11

Discloses no financial relationships with commercial entities.





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## FINANCIAL DISCLOSURE

Kristin M. Kelly, BSc - B73

Agilent Technologies, PerkinElmer Inc, Shimadzu Corporation  
(Discussion of Commercial Products or Services).

National Institute of Standards and Technology (Grant Support).

Silas Kibet Kemboi, BA - B14

Discloses no financial relationships with commercial entities.

Roderick T. Kennedy, JD - S2, W17

Discloses no financial relationships with commercial entities.

Michael W. Kenyhercz, PhD - A123

Discloses no financial relationships with commercial entities.

Talene Keshishian, MD - I27

Discloses no financial relationships with commercial entities.

Kelly Keyes, BS - E25

Discloses no financial relationships with commercial entities.

Ali Khadivi, PhD - I14

Discloses no financial relationships with commercial entities.

Nadeem-Ul-Hassan Khan, MPhil - J8

Discloses no financial relationships with commercial entities.

Caleb Kiesow - A96

Discloses no financial relationships with commercial entities.

Eunmi Kim, PhD - K3

Discloses no financial relationships with commercial entities.

Jieun Kim, PhD - W2

NextEngine Inc (Discussion of Commercial Products or  
Services).

National Institute of Justice, Slice and Algee-Hewitt  
(Grant Support).

Jieun Kim, PhD - A46

National Institute of Justice Grant (Grant Support).

Ashley N. Kimble, BS - K38

Agilent Technologies (Discussion of Commercial Products  
or Services).

Agilent Technologies, National Institute of Justice  
(Grant Support).

Erin H. Kimmerle, PhD - BS4

Discloses no financial relationships with commercial entities.

Sarah C. Kindschuh, PhD - A90

Discloses no financial relationships with commercial entities.

Pamela A.W. King, JD - W6, W22

Discloses no financial relationships with commercial entities.

Pascal Kintz, PhD - W8

Discloses no financial relationships with commercial entities.

Daniel Aaron Kirsch, BS - H7

Discloses no financial relationships with commercial entities.

Alexandra R. Klales, PhD - A2

National Institute of Justice (Grant Support).

Aryn Klein, MA - A6

Grady Early Scholarship in Forensic Anthropology  
(Grant Support).

Alexandre Klotz, MD - D3

Discloses no financial relationships with commercial entities.

Natasha M. Knack, BA - I33

University of Ottawa Medical Research Fund (Grant Support).

Kelly L. Knight, MS - E77

George Mason University (Employee).

Kimberly S. Kobjek, MS

Discloses no financial relationships with commercial entities.  
- S2

Arizona State University, National Science Foundation,  
Villanova University (Grant Support). - E79

Anthony Koertner, MS - E105

Discloses no financial relationships with commercial entities.

Panagiota Korenis-Rios, MD - I14

Discloses no financial relationships with commercial entities.

Renee C. Kosalka, MA - A129, A132

Discloses no financial relationships with commercial entities.

Christine M. Kovic, PhD - A140

University of Houston-Clear Lake (Grant Support).

Kelly Kraus, BS - E29

Discloses no financial relationships with commercial entities.

Benjamin Krenke, MS - B125

Promega Corporation (Discussion of Commercial Products or  
Services and Employee).

Carl R. Kriigel, MA - C16

Cellebrite Company, Niantic, Inc (Discussion of Commercial  
Products or Services).

Kewal Krishan, PhD - E92, E106

University Grants Commission, New Delhi Vide (Other  
Financial/Material Support).

John J. Kristofic, BS - K35

Discloses no financial relationships with commercial entities.

Robert Kronstrand, PhD - W8

Discloses no financial relationships with commercial entities.

Alex J. Krotulski, MS

Alere, Inc, Immunalysis Corporation (Discussion of  
Commercial Products or Services). - K44

National Institute of Justice (Grant Support). - K44

SCIEEX (Discussion of Commercial Products or Services).  
- K23

CFSRE (Employee). - K23

Ivana Kruzic, PhD - A51

Discloses no financial relationships with commercial entities.

Alison Krywanczyk, MD - H66

Discloses no financial relationships with commercial entities.

Akiko Kumagai - G3

Discloses no financial relationships with commercial entities.

Thomas C. Kupiec, PhD - K58

Discloses no financial relationships with commercial entities.

Kenji Kurosawa - C12

Discloses no financial relationships with commercial entities.

Maiko Kusano, PhD - K53

Japan Society for the Promotion of Science - KAKENHI  
(Grant Support).

## L

Ericka N. L'Abbe, PhD - A40

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

Romano La Harpe, MD - H126

Discloses no financial relationships with commercial entities.

Laura M. Labay, PhD - K66

Discloses no financial relationships with commercial entities.

Douglas S. Lacey, BS - C10

Apple Inc (Discussion of Commercial Products or Services).

Ammar Lahouel, MD - A53

Discloses no financial relationships with commercial entities.

Gianluca Landi - H7

Discloses no financial relationships with commercial entities.

Natalie R. Langley, PhD

Discloses no financial relationships with commercial entities.

- A23

National Institute of Justice (Grant Support). - A32

Patrick E. Lantz, MD - W14

Discloses no financial relationships with commercial entities.

Gerald M. LaPorte, MSFS

National Institute of Justice (Employee). - F16

Discloses no financial relationships with commercial entities.

- F42

Christelle Lardi, MD - H143

Physio-Control Inc./Jolife AB (Discussion of Commercial Products or Services).

Geneva University Hospitals Switzerland (Employee).

S.B. Addison Larson, BA - D24, E70

Discloses no financial relationships with commercial entities.

Heather LaSalle, MS - W24

Department of Justice, Federal Bureau of Investigation (Employee).

Krista E. Latham, PhD - A109

University of Indianapolis (Employee).

Erin A. Laurie, MS - B41

Jan S. Bashinski Graduate Grant, National Institute of Justice (Grant Support).

Eric S. Lavins, BS - K60

Discloses no financial relationships with commercial entities.

Delphine Le Roux, PhD - B97

Promega Corporation, ZyGem Corporation Ltd (Discussion of Commercial Products or Services).

UVA (Employee).

Marc A. LeBeau, PhD - B200

Federal Bureau of Investigation (Employee).

Spencer Ledesma, MS - C7

Houston Forensic Science Center (Employee).

Soong Deok Lee, PhD - B47

Discloses no financial relationships with commercial entities.

Carrie B. LeGarde, MA - A98

Discloses no financial relationships with commercial entities.

Kevin M. Legg, PhD - K13

Agilent Technologies (Discussion of Commercial Products or Services).

Christina A. Leija, MS - E97

Discloses no financial relationships with commercial entities.

Samuel J. Leistedt, MD, PhD - I16

Discloses no financial relationships with commercial entities.

Eric Lemaire, MD, PhD - H136

Discloses no financial relationships with commercial entities.

Julia Lemarchand, MD - H49

Discloses no financial relationships with commercial entities.

Emily C. Lennert, BS - B81

Discloses no financial relationships with commercial entities.

John J. Lentini, BA - ES1, S1

Discloses no financial relationships with commercial entities.

Nathan H. Lents, PhD - H82

Puritan Medical (Discussion of Commercial Products or Services).

Kate M. Lesciotto, JD, MS - A8

Discloses no financial relationships with commercial entities.

Sandra Levick, JD - W6

Discloses no financial relationships with commercial entities.

Martin D. Levin, DDS - G35

Discloses no financial relationships with commercial entities.

Matthew P. Levitas, BS - B115

PerkinElmer Inc (Discussion of Commercial Products or Services).

Carolyn Lewis, BS - B8

Bio-Rad Laboratories, Inc, Promega Corporation, QIAGEN, Inc, Quantas Biosciences, Thermo Fisher Scientific Inc, Whatman plc (Discussion of Commercial Products or Services).

Virginia Commonwealth University (Employee).

Cheri Lewis, DDS - G20

Discloses no financial relationships with commercial entities.

Jane A. Lewis, MFS - J25

Discloses no financial relationships with commercial entities.

Krystle Lewis, BS - A100

Discloses no financial relationships with commercial entities.

Anne-Claire Lhoumeau, MD - E48

Pfizer, Inc (Discussion of Commercial Products or Services).

Ling Li, MD - H133

Collaborative Innovation Center of Judicial Civilization, China (Grant Support).

Emily Lichtenberger, BS - B111

Agilent Technologies, Alere, Inc, Cerilliant Corporation, Shimadzu Corporation, Sigma-Aldrich Co. LLC (Discussion of Commercial Products or Services).

North Carolina State University (Employee).

Hui Si Lim - B23

Health Sciences Authority (Employee).

Laura L. Liptai, PhD

Discloses no financial relationships with commercial entities.

- D27  
Biomedical Forensics (Employee). - W18

Barry E. Lipton, DDS - G15

Discloses no financial relationships with commercial entities.

Cristian F. Lizama, BS - D13

Policia de Investigaciones Chile (Employee).

Sara Lo Pinto, MD - H113, H114

Discloses no financial relationships with commercial entities.



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## FINANCIAL DISCLOSURE

Andrew Loftus, PhD - B107

InnoGenomics Technologies, LLC, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).  
InnoGenomics Technologies, LLC (Employee).

Barry K. Logan, PhD

NMS Labs (Employee). - W5, W18  
Discloses no financial relationships with commercial entities.  
- S2

Kelly E. Long, BSc - B51

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

Sarah Long, BS - A122

Discloses no financial relationships with commercial entities.

Nicolene Lottering, PhD - S2

Discloses no financial relationships with commercial entities.

Jennifer C. Love, PhD - A145

Discloses no financial relationships with commercial entities.

Tara Lovestead, PhD - B66

National Institute of Standards and Technology (Employee).

Douglas M. Lucas, DSc - B34

Discloses no financial relationships with commercial entities.

Victoria S. Lucas, PhD - G8

Discloses no financial relationships with commercial entities.

Francesco Lupariello, MD - H45, H147

Discloses no financial relationships with commercial entities.

Ira S. Lurie, PhD - W20

Agilent Technologies, PerkinElmer, Shimadzu Corporation, Waters Corporation (Discussion of Commercial Products or Services).

National Institute of Justice, PerkinElmer Inc (Grant Support).

Vincenzo Lusa, JD - LW2

Discloses no financial relationships with commercial entities.

James R. Lyle, PhD - C19

AccessData, CRU Acquisition Group, LLC, Guidance Software Inc, Logicube, Source Forge, Sumuri LLC, X-Ways Software Technologies AG (Discussion of Commercial Products or Services).

National Institute of Standards and Technology (Employee).

Jeanne Lynch-Aird, PhD - A43

Discloses no financial relationships with commercial entities.

Zachary R. Lysek, BA - E51, E66

Discloses no financial relationships with commercial entities.

## M

Katrina F. Maddela, BS - B51

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

Francesca Maglietta, MD - H73

Discloses no financial relationships with commercial entities.

Paola A. Magni, PhD - H3, H4

Discloses no financial relationships with commercial entities.

Tara J. Mahar, MD - H51

Erie County Medical Examiner's Office (Employee).

Khurram W. Mahmood, MPhil - J8

Discloses no financial relationships with commercial entities.

Christopher A. Maier, MA - A73

Discloses no financial relationships with commercial entities.

Julia B. Maier, BSc - B141

Cedar Crest College Forensic Science Program (Other Financial Material Support).

Justin R. Maiers, BS - A118

Discloses no financial relationships with commercial entities.

Heli Maijanen, PhD - A93

University of Oulu (Grant Support).

Venkatesh Maled, MD - A78, G6

Discloses no financial relationships with commercial entities.

Claude Mallet, PhD - K27

Waters Corporation (Discussion of Commercial Products or Services and Employee).

Christina A. Malone, MFS - C5

Discloses no financial relationships with commercial entities.

Katherine F. Maloney, MD - H46

Erie County Medical Examiner's Office (Employee).

Joseph J. Maltese, JD, PhD - S1

Discloses no financial relationships with commercial entities.

Sergey Mamedov, PhD - B162

Discloses no financial relationships with commercial entities.

João Manata, MSc - E60

Discloses no financial relationships with commercial entities.

Chelsie K.R. Mangca Valdez, BS - H5

Exttech (Discussion of Commercial Products or Services).

Pierre A. J-L. Margot, PhD - B34

Discloses no financial relationships with commercial entities.

Mark Maric, PhD - E5

Discloses no financial relationships with commercial entities.

Charla Marshall, PhD

EMD Millipore, Illumina, Inc, Promega Corporation, QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services). - B183

ARP Sciences, LLC (Employee). - B183

Bio-Rad Laboratories, Inc, Bode Cellmark Forensics, Clontech Laboratories, Inc, Illumina, Inc, QIAGEN, Inc (Discussion of Commercial Products or Services). - B44

ARP Sciences, AFDIL (Employee). - B44

Pamela L. Marshall, PhD - E78

Discloses no financial relationships with commercial entities.

Daniel A. Martell, PhD - I21

Discloses no financial relationships with commercial entities.

Brent D. Martin, DMD - G10

Schick (Discussion of Commercial Products or Services).

Brittney W. Martin, BS - E30

Discloses no financial relationships with commercial entities.

Sara A. Martin, BS - BS4

Discloses no financial relationships with commercial entities.

Alan P. Martinez - K34

Discloses no financial relationships with commercial entities.

Eloisa Maselli, MD - H60

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

- Katelyn Mason, PhD - A34  
Lawrence Livermore National Laboratory (Grant Support).
- Luca Massaro, MD - E56  
Discloses no financial relationships with commercial entities.
- Benjamin Mathis, MD - H12  
Discloses no financial relationships with commercial entities.
- Brendan Max, JD - W1  
Cook County Public Defender Office (Employee).
- Carrie Mayes, BS - B1  
Integrated DNA Technologies, QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).  
Sam Houston State University (Employee).
- Rodrigo Mayrink, MA - D14  
Discloses no financial relationships with commercial entities.
- Peter Mazari, MD - H137  
Discloses no financial relationships with commercial entities.
- Edward Mazuchowski II, MD, PhD - W11  
Discloses no financial relationships with commercial entities.
- Thomas C. McAndrew, MA - W4  
Discloses no financial relationships with commercial entities.
- Derik McCarthy - K7  
National Science Foundation Division of Chemistry (Grant Support).
- Carl R. McClary, BA - J3  
Discloses no financial relationships with commercial entities.
- Brandi C. McCleskey, MD - H75  
Discloses no financial relationships with commercial entities.
- Bruce R. McCord, PhD - W20  
Florida International University (Employee).
- Kyle A. McCormick, PhD - A62  
Discloses no financial relationships with commercial entities.
- Mark R. McCoy, EdD - E100  
Forensic Science Institute - University of Central Oklahoma (Employee).
- Chloe P. McDanel, MA - A97  
Discloses no financial relationships with commercial entities.
- Austin L. McDaniel, BS - B21  
National Institute of Justice (Grant Support).
- Anna G. McDonald, MD - W14  
Discloses no financial relationships with commercial entities.
- Michael D. McDowell, MS - D23  
Discloses no financial relationships with commercial entities.
- Leif McGoldrick, BS - E8, E9, E55, E95  
State University of New York, University at Albany (Employee).
- Arlene M. McGrath - B146  
Discloses no financial relationships with commercial entities.
- Heather E. McKiernan, MSFS - B106  
Agilent Technologies (Discussion of Commercial Products or Services).  
National Institute of Justice (Grant Support).
- Mary C. McMurray, BS - F27  
Discloses no financial relationships with commercial entities.
- Lauren A. Meckel, MA - A97  
Discloses no financial relationships with commercial entities.
- Tahnee Nelson Mehmet, MSFS - B207  
Discloses no financial relationships with commercial entities.
- Malorie Mella, BA - K50  
Waters Corporation (Discussion of Commercial Products or Services and Employee).
- Kenneth E. Melson, JD - ES1  
Discloses no financial relationships with commercial entities.
- John Melville, MD - G38  
Business Casual Software (Discussion of Commercial Products or Services and Shareholder).
- Mara L. Merlino, PhD  
Discloses no financial relationships with commercial entities.  
- S1  
National Institute of Justice (Grant Support). - J24
- Vadim Mesli, MD - G2  
Discloses no financial relationships with commercial entities.
- Diana L. Messer, MS - A84  
Discloses no financial relationships with commercial entities.
- Erin Michaels, MFS - W11  
Discloses no financial relationships with commercial entities.
- Katarzyna Michaud, MD - H40, H150  
Discloses no financial relationships with commercial entities.
- Harry L. Miles, JD - F8  
Discloses no financial relationships with commercial entities.
- Barrie Miller, MD - H67  
Discloses no financial relationships with commercial entities.
- James T. Miller, BS - B84  
Houston Forensic Science Center employee (Employee).
- Marilyn T. Miller, EdD - E1, E34  
Leica Geosystems (Discussion of Commercial Products or Services).
- Ross James Miller, MD - H56  
Lodox Systems (Discussion of Commercial Products or Services).
- James Millette, PhD - D22  
Discloses no financial relationships with commercial entities.
- Caroline Mireault, MA - J13  
Natural Sciences and Engineering Research Council of Canada, Fonds de recherche du Québec - Nature et technologies (FRQNT) (Grant Support).
- Randolph L. Mitchell, DMD - G25  
Discloses no financial relationships with commercial entities.
- Ellen Moffatt, MD - H85  
Discloses no financial relationships with commercial entities.
- Amanda Moffett, MFS - BS2  
United States Secret Service (Employee).
- Linton Mohammed, PhD - J23, S1  
Discloses no financial relationships with commercial entities.
- Amanda L.A. Mohr, MSFS - W5  
Centre for Forensic Science Research and Foundation (Employee).
- Mehdi Moini, PhD  
PerkinElmer Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services). - J11  
National Science Foundation (Grant Support). - B173



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## FINANCIAL DISCLOSURE

Benjamin Mokdad - E88

Discloses no financial relationships with commercial entities.

Cristina Mondello - H127

Discloses no financial relationships with commercial entities.

Katherine N. Moore, MS - B13

National Forensic Laboratory Information System (NFLIS)  
(Other Financial/Material Support).

Ronald L. Moore, Esq., JD - F7

Discloses no financial relationships with commercial entities.

Harley A. Moraes, MSc - D36

Discloses no financial relationships with commercial entities.

Kimberlee Sue Moran, MSc - W13

Academia, AcademicRoom, Instagram, Klout, Inc, LinkedIn,  
ResearchGate, Twitter, Inc (Discussion of Commercial  
Products or Services).

Arcadia University (Employee).

Zachary Moran, PhD - I43

Mental Health, Law and Policy Institute, Simon Fraser  
University, Van der Hoeven Stichting (Discussion of  
Commercial Products or Services).

Tamyra Moretti, PhD - B102

Discloses no financial relationships with commercial entities.

John Morgan, PhD - B199

Discloses no financial relationships with commercial entities.

Lee Morgan - H26

Apollo Business Supplies, Avery Products Corporation,  
Evident, Inc, (Discussion of Commercial Products or Services).

Stephen L. Morgan, PhD - B158

National Institute of Justice, Office of Justice Programs, U.S.  
Department of Justice (Grant Support).

Sharon K. Moses, PhD - E49

Discloses no financial relationships with commercial entities.

Thaddeus Mostowtt, MFS - K18

National Institute of Justice (Grant Support).

Melissa Mourges, JD - B191, F14

Discloses no financial relationships with commercial entities.

Yasmine Moustafa, BS - E6

Discloses no financial relationships with commercial entities.

Courtney L. Mower, BS - E72

Illumina, Inc, QIAGEN, Inc, Thermo Fisher Scientific Inc  
(Discussion of Commercial Products or Services).

Arcadia University (Other Financial/Material Support).

Kimberly B. Murga, MFS - W24

Las Vegas Metropolitan Police Department (Employee).

Claire Muro, BS - B89

National Institute of Justice, Office of Justice Programs,  
U.S. Department of Justice (Grant Support).

Lisa Murphy, MCA - I32

Discloses no financial relationships with commercial entities.

Patrick A. Murray, DDS - G29

Discloses no financial relationships with commercial entities.

Laura Muscatello, MD - I8

Discloses no financial relationships with commercial entities.

## N

Marcela Najarro, MFS - B59

Safran Identity & Security (Discussion of Commercial  
Products or Services).

The U.S. Department of Homeland Security Science and  
Technology Directorate, National Institute of Standards and  
Technology (Grant Support).

Cheryl F. Nelson, DVM - E19

Discloses no financial relationships with commercial entities.

Yolanda Nerkowski, BA - A131, G22

Discloses no financial relationships with commercial entities.

Tara L. Newcomb, MS - G37

Discloses no financial relationships with commercial entities.

Michael J. Nichols, JD - F6

Discloses no financial relationships with commercial entities.

Gregory Nigoghosian, BSc - H9

Purdue University (Employee).

Yasuhiro Nishio - D12

Discloses no financial relationships with commercial entities.

John Nixon, CEng, MBA - D20

Discloses no financial relationships with commercial entities.

Jacqueline Noble, MFS - A18

Discloses no financial relationships with commercial entities.

Jamie O. Norman, JD - D27

Discloses no financial relationships with commercial entities.

Katelyn Norman, BFA - E14

Frank H. Netter, MD School of Medicine of Quinnipiac  
University (Grant Support).

Paul Norris - B69

Discloses no financial relationships with commercial entities.

Maher Noureddine, PhD - E58

Colt's Manufacturing Company LLC, Copan Italia, Fabbria  
d'Armi Pietro Beretta, Glock, Inc, Mikhail Kalashnikov,  
Remington Arms Company, LLC, Smith & Wesson, Sturm,  
Ruger & Co, Thermo Fisher Scientific Inc, Volunteer  
Enterprises (Discussion of Commercial Products or Services).

David Novosad, MD - I40

Discloses no financial relationships with commercial entities.

Nicole M. Novroski, MS - B186

Forensic Science Foundation Lucas Grant (Grant Support).

Carraugh R. Nowak, MFS

Erie County Medical Examiner's Office (Employee). - E52

National Institute of Justice (Discussion of Commercial  
Products or Services). - E35

Hilbert College (Employee). - E35

Carolina Núñez-Vázquez, PhD - H15

Discloses no financial relationships with commercial entities.

Kiana F. Nurideen, BS - B150

DEA (Employee).

Ziyad Nuwayhid, MD - I9

Discloses no financial relationships with commercial entities.

W. Milton Nuzum, JD - S1

Discloses no financial relationships with commercial entities.





# FINANCIAL DISCLOSURE

Emilio Nuzzolese, PhD - G11

Discloses no financial relationships with commercial entities.

## O

Kerry J. O'Connell, JD - F44

Discloses no financial relationships with commercial entities.

Stephanie L. Oddi, BSc - B117

Discloses no financial relationships with commercial entities.

William R. Oliver, MD - H38

National Institute of Justice (Grant Support).

Tiffany O'Neill, DO - H43

Discloses no financial relationships with commercial entities.

Simone Onti, MD - H27, I30

Discloses no financial relationships with commercial entities.

Kayla L. Orr, BSc - A54

Discloses no financial relationships with commercial entities.

Carmen E. Osorno Solís - A144

CAMMINA PROGRAM, Ford Foundation, Mac Arthur Foundation, Oak Foundation, Open Society Foundation, Sigrid Rausing Fund (Grant Support).

Alessio Ostuni, MD

Bendamustine® Brentuximab Vedotin® (Discussion of Unlabeled Investigational Use of Product/Device). - F13

Discloses no financial relationships with commercial entities. - I28, I29

## P

Donna M. Papsun, MS - K31, W5

NMS Labs (Employee).

Dae-Kyoon Park, MD, PhD - E41

Discloses no financial relationships with commercial entities.

Glendon Parker, PhD - A96

Forensic Science Center, Lawrence Livermore National Laboratory (Paid Consultant).

Gustavo G. Parma, MD - E91

Discloses no financial relationships with commercial entities.

Kevin J. Parmelee, PhD - E22

Nikon, Inc (Discussion of Commercial Products or Services).

Alexis Parr, BS - B53

Applied Biosystems, NetBio, Inc, Promega Corporation, QIAGEN, Inc (Discussion of Commercial Products or Services and Unlabeled/Investigational Use of Product/Device).

Hillary R. Parsons, PhD - E50, E114

History Flight Inc. (Employee).

Barry Pass, PhD - G35

Discloses no financial relationships with commercial entities.

Nicholas V. Passalacqua, PhD - A11

Discloses no financial relationships with commercial entities.

Furio Martino Patete - E47

Discloses no financial relationships with commercial entities.

David G. Pauly, MFS - W21

Nikon, Inc (Discussion of Commercial Products or Services).  
Sirchie (Paid Consultant).

Jennifer L. Pechal, PhD - H97, W22

Discloses no financial relationships with commercial entities.

Michal Peer - A26

Mansell Color (Discussion of Commercial Products or Services).

Vinicio Pelino, MS - C29

Discloses no financial relationships with commercial entities.

Carla R. Penner, DDS - G13

Discloses no financial relationships with commercial entities.

Mark W. Perlin, PhD, MD

Cybergenetics (Shareholder and Discussion of Commercial Products or Services). - B190, F29, F11

Lauren M. Perry, BS - J7

Discloses no financial relationships with commercial entities.

Caterina Petetta, MD - H61

Discloses no financial relationships with commercial entities.

Nicholas Petraco, MS - B119

National Institute of Justice (Grant Support).

Pierre-Antoine Peyron, MD - H141

Discloses no financial relationships with commercial entities.

Lauren R. Pharr, PhD - A28

EBSCO Industries, Inc (Discussion of Commercial Products or Services)

Louisiana State University, National Science Foundation (Grant Support).

Angelina I. Phillips, MD - H23

Discloses no financial relationships with commercial entities.

Jennifer Piel, MD - I22

Discloses no financial relationships with commercial entities.

David Pienkowski, PhD - D4, D15

Discloses no financial relationships with commercial entities.

Michal L. Pierce, MS - E63

Discloses no financial relationships with commercial entities.

Marin A. Pilloud, PhD - A72

Discloses no financial relationships with commercial entities.

Joao E.S. Pinheiro, PhD, MD - H41

Discloses no financial relationships with commercial entities.

Christine M. Pink, PhD - A87

Metropolitan State University of Denver (Employee).

Danea Pirtle, BA - H2

Discloses no financial relationships with commercial entities.

Alicia Marie Swartz Pitts, MS - W11

Discloses no financial relationships with commercial entities.

John E. Pitts, DDS - G24

Discloses no financial relationships with commercial entities.

Sharon L. Plotkin, MS - W15

Discloses no financial relationships with commercial entities.

Christopher J. Plourd, JD - B179, W6

Discloses no financial relationships with commercial entities.

Danny J. Pogoda, DDS - G32

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

## Corey Pollock - A9

Munsell Color (Discussion of Commercial Products or Services).

Boston University School of Medicine, Department of Anatomy and Neurobiology (Other Financial/Material Support).

## Austin L. Polonitza, BS - A138, H57

Discloses no financial relationships with commercial entities.

## Carrie Polston, BA - J9

Regula (Discussion of Commercial Products or Services).

## Cristoforo Pomara, MD, PhD - E108

Discloses no financial relationships with commercial entities.

## Elayne J. Pope, PhD - A126

Discloses no financial relationships with commercial entities.

## David J. Porta, PhD - D29

Bosh Automotive Service Solutions Inc (Discussion of Commercial Products or Services).

## Caitlin E. Porterfield, MS - B42, E100

University of Central Oklahoma - Forensic Science Institute (Employee).

## Jessica L. Powers, MA - B109

Discloses no financial relationships with commercial entities.

## Mark C. Pozzi, MS

Chrysler, Ford Motor Company, General Motors, Kenworth (Discussion of Commercial Products or Services). - D5

Discloses no financial relationships with commercial entities. - D7

Chrysler (Discussion of Commercial Products or Services). - D16

General Motors, Takata Corporation (Discussion of Commercial Products or Services). - D18

## Joseph A. Prahlow, MD - E31, H87

Discloses no financial relationships with commercial entities.

## Samuel Prahlow - E65, H105

Discloses no financial relationships with commercial entities.

## Sebastien S. Prat, MD - I23, I41

Discloses no financial relationships with commercial entities.

## Julia R. Prince-Buitenhuis, MA - A58

Discloses no financial relationships with commercial entities.

## Noemi Procopio, MSc - A22

Royal Society (Grant Support).

## Beatriz A. Pujols, BS - B126

Promega Corporation (Discussion of Commercial Products or Services).

Duquesne University (Other Financial/Material Support).

## Q

## Walter Quattrociocchi, PhD - C29

Discloses no financial relationships with commercial entities.

## Matthew Quinn - B17

National Institute of Justice, Office of Justice Programs, U.S. Department of Justice (Grant Support).

## R

## Houssam Raai - I12

Discloses no financial relationships with commercial entities.

## Nemanja Radojevic, MSc - LW5

Discloses no financial relationships with commercial entities.

## Alicia R. Rairden, MS - B169

Houston Forensic Science Center (Employee).

## Ashwyn Rajagopalan, MD - H34, H109

Discloses no financial relationships with commercial entities.

## Bayan Ramadan, BSc - J19

United Nations Office on Drugs and Crime (Grant Support).

## Donald J. Ramsell, JD - F39

Discloses no financial relationships with commercial entities.

## Katherine Ramsland, PhD - E66, ES1, W17

Discloses no financial relationships with commercial entities.

## Anjali A. Ranadive, JD - W6

Discloses no financial relationships with commercial entities.

## Rebekah Ranger, BA - I5

Discloses no financial relationships with commercial entities.

## Nicole Rapino, BA - B61

Discloses no financial relationships with commercial entities.

## Amy V. Rapkiewicz, MD - H101

Discloses no financial relationships with commercial entities.

## Sara Raponi, JD - F1

Discloses no financial relationships with commercial entities.

## Sophia I. Reck - E32

RJL Systems (Discussion of Commercial Products or Services).

## Sarah Davis Redman, PhD - E68

Centers for Disease Control and Prevention (Grant Support).

## Stacey L. Reed, DO - H100

Discloses no financial relationships with commercial entities.

## Trenna M. Reeve, DMD - G13

Discloses no financial relationships with commercial entities.

## Michaela F. Regan - E96

University College London, Engineering and Physical Sciences Research Council (Grant Support).

## Robin C. Reineke, PhD - A143

CAMMINA Program, Ford Foundation, Lacey & Larkin Frontera Fund, Oak Foundation, Porticus Foundation (Grant Support).

## Karl J. Reinhard, PhD - A65

Discloses no financial relationships with commercial entities.

## Marcello Rendine - E85

Discloses no financial relationships with commercial entities.

## Thomas B. Renegar, BS - B205

Freeman Manufacturing & Supply Co (Discussion of Commercial Products or Services).

National Institute of Standards and Technology (Employee).

## Evelyn Reyes, BS - K26

Discloses no financial relationships with commercial entities.

## Jenise Reyes-Rodriguez, BS - C23

National Institute of Standards and Technology (Employee).



# FINANCIAL DISCLOSURE

Selden Richard, MD - B100

NetBio, Inc (Discussion of Commercial Products or Services Employee).

Elizabeth Richards, PhD - W11

Discloses no financial relationships with commercial entities.

Taylor J. Rider - A45

3D Systems, NextEngine, Inc (Discussion of Commercial Products or Services).

Mercyhurst University, Research Assistantship (Employee).

Michael F. Rieders, PhD - W18

NMS Labs (Employee).

Amber D. Riley, MS - G39

Discloses no financial relationships with commercial entities.

Sarah Riman, PhD

Applied Biosystems (Discussion of Commercial Products or Services). - B105

FSF Jan S. Bashinski Grant, National Institute of Justice, Office of Justice Programs, United States Department of Justice (Grant Support). - B105

Promega Corporation (Discussion of Commercial Products or Services). - B212

National Institute of Standards and Technology (Grant Support). - B212

Bruce N. Ringstrom, Jr., JD - F10

Discloses no financial relationships with commercial entities.

Jariangely Rivera - H25

Discloses no financial relationships with commercial entities.

David B. Rivers, PhD - H92

Loyola University Maryland (Employee).

Tania Rizzo, BS - I8

Discloses no financial relationships with commercial entities.

Brianna L. Robbins, BA - B96

Discloses no financial relationships with commercial entities.

Bonnie C. Roberts, BS - D28

Discloses no financial relationships with commercial entities.

Graham J. Roberts, MDS - G33

Discloses no financial relationships with commercial entities.

Lindsey G. Roberts, MA - A19

Southern Illinois University (Employee).

Maria A. Roberts - B165, B166

Federal Bureau of Investigation (Employee).

C. Andrew Robinson, Jr., PhD - F36

IonSense, Inc, SCIEEX (Discussion of Commercial Products or Services).

University of Alabama at Birmingham, Department of Pathology (Employee).

Karlee Rock, BA - B10

Applied Biosystems, Foster + Freeman, Ltd, Glock, Inc, Promega Corporation, QIAGEN, Inc, Syntronics, LLC (Discussion of Commercial Products or Services).

Sandra E. Rodriguez-Cruz, PhD - B82, B83

Drug Enforcement Administration (Employee).

Scott Roeske, MFS - W11

Discloses no financial relationships with commercial entities.

Marcus Rogers, PhD - C24

Discloses no financial relationships with commercial entities.

Meghan Roig, BS - B128

Applied Biosystems, Pressure BioSciences, Inc, Stemcell Technologies, Streck, Inc (Discussion of Commercial Products or Services).

Pressure BioSciences, Inc (Grant Support).

Matthew D. Rolland, BS - A99

Discloses no financial relationships with commercial entities.

Jeri D. Roper-Miller, PhD

Discloses no financial relationships with commercial entities. - S2

RTI International (Employee). - W24

Karen B. Rosenbaum, MD - I4

Discloses no financial relationships with commercial entities.

Michael Rosenfield, BS - D41

Ford Motor Company (Discussion of Commercial Products or Services).

Ann H. Ross, PhD - W19

North Carolina State University (Employee). - W19

National Institute of Justice (Grant Support). - A41

Karen F. Ross, MD - K66

Discloses no financial relationships with commercial entities.

Madison Veronica Roussel, BS - B136

Chemring Detection Systems (Discussion of Commercial Products or Services).

Vassil Roussev, PhD - C32

Discloses no financial relationships with commercial entities.

Claude Roux, PhD - B34

Discloses no financial relationships with commercial entities.

Samantha K. Rowbotham, MA - A47, A135

Monash University (Other Financial/Material Support).

Walter F. Rowe, PhD - B118

The George Washington University (Employee).

William N. Rowley, PhD - D27

Discloses no financial relationships with commercial entities.

Katie M. Rubin, MS - W16

Discloses no financial relationships with commercial entities.

Leonid I. Rudin, PhD - C13

Cognitech, Inc (Employee).

Norah Rudin, PhD - B187

National Institute of Justice (Grant Support).

Alex Rugh, MS - B154, E76

CBI (Employee).

John M.M. Rumbold, PhD

Discloses no financial relationships with commercial entities. - I24

Horizon2020 (Grant Support). - E69

AEGLE (Discussion of Unlabeled/Investigational Use of Product/Device). - E69

Telstra Corporation (Discussion of Products and Services). - E69

Suzanna R. Ryan, MS - B179

Discloses no financial relationships with commercial entities.





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## FINANCIAL DISCLOSURE

### S

Sherry Elizabeth Sabol, JD - W6

Discloses no financial relationships with commercial entities.

Matteo Antonio Sacco, MD - H70

Discloses no financial relationships with commercial entities.

Kenneth J. Saczalski, PhD

Discloses no financial relationships with commercial entities.

- D5, D7

Chrysler (Discussion of Commercial Products or Services).

- D16

General Motors, Takata Corporaton (Discussion of Commercial Products or Services). - D18

Monica Salerno, MD, PhD - E108, H108

Discloses no financial relationships with commercial entities.

John E. Sammons, MS - C34

Berla Corporation (Discussion of Commercial Products or Services).

Marshall University (Employee).

Beth H. Sanchez, MFS - E10

Discloses no financial relationships with commercial entities.

Michelle R. Sanford, PhD - H129

Harris County Institute of Forensic Sciences (Employee).

Robert M. Sanger, JD - F25

Discloses no financial relationships with commercial entities.

Bruno M. Santos, MSc - H29

Discloses no financial relationships with commercial entities.

Gil Sapir, JD - F28

Discloses no financial relationships with commercial entities.

Luigi Saravo, PhD - C29

Discloses no financial relationships with commercial entities.

Laura Sare, MS - W22

Discloses no financial relationships with commercial entities.

Luther S. Schaeffer, MSc - B204

NIJ Office of Investigative and Forensic Sciences (Employee).

Barry C. Scheck, JD - S1

Discloses no financial relationships with commercial entities.

Tyler J. Schlagetter - B5

Sirchie (Discussion of Commercial Products or Services).

University of New Haven (Grant Support).

Gregory A. Schmunk, MD - K66

Discloses no financial relationships with commercial entities.

Candace H. Schoppe, MD - W14

Discloses no financial relationships with commercial entities.

John J. Schultz, PhD - A125

Department of Anthropology, University of Central Florida (Employee).

Leah M. Schuppener, DO - H107

Discloses no financial relationships with commercial entities.

Reva Schwartz, MA - C4

Discloses no financial relationships with commercial entities.

Christian Schyma - H78

Discloses no financial relationships with commercial entities.

Irina A. Scordi-Bello, MD, PhD - H7

Discloses no financial relationships with commercial entities.

Haley K. Scott, BSc - H132

Discloses no financial relationships with commercial entities.

Karen S. Scott, PhD - W8

Discloses no financial relationships with commercial entities.

Veronica Scotti, LLM - F38

Discloses no financial relationships with commercial entities.

Jan Seaman Kelly, BA - J4, J23

Discloses no financial relationships with commercial entities.

Ismail M. Sebetan, MD, PhD

Discloses no financial relationships with commercial entities.

- E10, E37

Nikon, Inc (Discussion of Commercial Products or Services and Unlabeled/Investigational Use of Product/Device). - F12

Roumen Sedefov, MD - W5

Discloses no financial relationships with commercial entities.

Season E. Seferyn, MSFS - B103

Applied Biosystems, Eppendorf AG, Life Technologies Corporation, Promega Corporation, QIAGEN, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

National Institute of Justice (Grant Support).

Ryan M. Seidemann, MA - A147

Discloses no financial relationships with commercial entities.

Kathryn C. Seigfried-Spellar, PhD

IBM (Discussion of Commercial Products or Services).

- C24, C27

Discloses no financial relationships with commercial entities.

- C11

David R. Senn, DDS - G40, G41

Discloses no financial relationships with commercial entities.

Serenella Serinelli, MD - H36

Discloses no financial relationships with commercial entities.

Francesco Sessa, MS - B209, E80

Discloses no financial relationships with commercial entities.

Kimberly Setien, BS - B143

Teledyne Isco Inc (Discussion of Commercial Products or Services).

Valerie Sgheiza, BS - A61

Discloses no financial relationships with commercial entities.

Vanquilla L. Shellman, BS - B114, B147

Discloses no financial relationships with commercial entities.

Donald E. Shelton, JD, PhD - F9, F20

Discloses no financial relationships with commercial entities.

Youngsoon Shin, MS - A48

Discloses no financial relationships with commercial entities.

Vivian Shnaidman, MD - I7

Discloses no financial relationships with commercial entities.

Courtney C. Siegert, BA - A97

Discloses no financial relationships with commercial entities.

Michael E. Sigman, PhD - B76

National Institute of Justice, Office of Justice Programs (Grant Support).

Joana Rita Coelho Batista Silva, MD - H17, H18

Discloses no financial relationships with commercial entities.

Renata C. Silva - B70

Financiadora de Estudos e Projetos (Grant Support).



# FINANCIAL DISCLOSURE

William E. Silver, DDS - G26

Discloses no financial relationships with commercial entities.

Alison Simon, BS

Office of Naval Research (Grant Support). - B147

J. Edgar Hoover Foundation, Society of Former Special

Agents of the FBI Foundation (Grant Support). - E18, E20

Rachel S. Singer, JD - F24

Discloses no financial relationships with commercial entities.

Baneshwar Singh, PhD

Illumina, Inc, Schloss, P., The R Foundation (Discussion of Commercial Products or Services). - H128

Illumina, Inc, Schloss, P. (Discussion of Commercial Products or Services). - H95

Virginia Commonwealth University (Grant Support). - H95

Jasbir Singh, MD - A113

Discloses no financial relationships with commercial entities.

Pankaj Sinha - K21

Randox Toxicology Ltd (Discussion of Commercial Products or Services/Employee).

Edward Sisco, MS - B142

Discloses no financial relationships with commercial entities.

Joni B. Skipper, MD - H11

Discloses no financial relationships with commercial entities.

Dennis E. Slice, PhD

France Casting, NextEngine, Inc (Discussion of Commercial Products or Services). - W2

National Institute of Justice, Slice and Algee-Hewitt (Grant Support). - W2

National Institute of Justice Grant (Grant Support). - A46

Ashley C. Smith, MSc - A134

Carl Zeiss AG (Discussion of Commercial Products or Services).

University of Toronto (Shareholder).

E. Allyn Smith, PhD - W17

Discloses no financial relationships with commercial entities.

Erich D. Smith, MS - B35

Cadre (Discussion of Commercial Products or Services).

Jeff M. Smith, MS

Apple Inc (Discussion of Commercial Products or Services). - C10

Adobe Systems Incorporated, Cognitech, Inc, iZotope, Inc, The MathWorks, Inc (Discussion of Commercial Products or Services). - W12

University of Colorado Denver (Employee). - C10, W12

La'Quida Smith, MA

Discloses no financial relationships with commercial entities. - J1, J22

National Institute of Justice (Grant Support). -J24

Mariah Smith, MD - I3

New York Medical College Metropolitan Hospital/HHC Corp Residency Program (Employee).

Sierra Smith, BA - A137

Discloses no financial relationships with commercial entities.

Alexander Smyth - E103

Discloses no financial relationships with commercial entities.

Tore T. Solheim - G19

Discloses no financial relationships with commercial entities.

Roy H. Sonkin, DDS - G34

Discloses no financial relationships with commercial entities.

Dolores Soto, PhD - W16

Discloses no financial relationships with commercial entities.

Richard R. Souviron, DDS - G16

Discloses no financial relationships with commercial entities.

Leonardo Souza - D37

Discloses no financial relationships with commercial entities.

Caroline Spencer, BS - K4

Discloses no financial relationships with commercial entities.

Duane E. Spencer, DDS - G14

Discloses no financial relationships with commercial entities.

Cristina S. Spicher, BSc - B137

Chemring Sensors & Electronic Systems, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

Kate Spradley, PhD - A139

Texas State University Research Enhancement Program (Grant Support).

Jill L. Spriggs, MBA - W24

Sacramento County District Attorney (Employee).

Reyne Spsychalski, BSc - B56

PDMAC Paper (Discussion of Commercial Products or Services).

Laura Stanton - B172

Applied Biosystems, Promega Corporation (Discussion of Commercial Products or Services).

Robert G. Stanulis, PhD - W14

Discloses no financial relationships with commercial entities.

Becky Steffen, MS - B215

Discloses no financial relationships with commercial entities.

Joseph A. Stein - B72

NIJ Forensic Technology Center of Excellence, RTI International,

West Virginia University SURE Program (Grant Support).

Paul Stein, PhD

Discloses no financial relationships with commercial entities. - E10, E37

Nikon, Inc (Discussion of Commercial Products or Services and Unlabeled/Investigational Use of Product/Device). - F12

Robert H. Stein, BS - A17

Discloses no financial relationships with commercial entities.

Sarah L. Stein, PhD - BS4

Discloses no financial relationships with commercial entities.

Louise R. Steinhoff, MBBS - E38

Discloses no financial relationships with commercial entities.

Sierra M. Stinson - B62

Agilent Technologies, B&G Foods, Church & Dwight, Inc, Colgate-Palmolive Company, Coty, Inc, The Dial Corporation, Helen of Troy, PDC Brands™, Proctor & Gamble, Unilever, Inc (Discussion of Commercial Products or Services). Ming Hsieh Foundation Award at West Virginia University (Other Financial/Material Support).



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2017

## FINANCIAL DISCLOSURE

Michala K. Stock, MA - A33

Discloses no financial relationships with commercial entities.

Michael T. Stocker - B37

Discloses no financial relationships with commercial entities.

Mark D. Stolorow, MS, MBA - F42

Discloses no financial relationships with commercial entities.

David A. Stoney, PhD - B120

National Institute of Justice, Office of Justice Programs, U.S.  
Department of Justice (Grant Support).

Robert Stoppacher, MD - BS1

Discloses no financial relationships with commercial entities.

Peter R. Stout, PhD - S2

Discloses no financial relationships with commercial entities.

Detelina Stoyanova, PhD

France Casting, NextEngine, Inc (Discussion of Commercial  
Products or Services). - W2

National Institute of Justice, Slice and Algee-Hewitt  
(Grant Support). - W2

National Institute of Justice Grant (Grant Support). - A46

Ryan Strand, BS - A142

Kenedy Memorial Foundation (Grant Support).

Kathryn M. Strong, BA - H58

Discloses no financial relationships with commercial entities.

Phoebe R. Stubblefield, PhD - W19

University of North Dakota (Employee).

Michael P. Stypa, MS - K41

Las Vegas Metropolitan Police Department (Employee).

Andrew Sulner, MSFS, JD - F46

Discloses no financial relationships with commercial entities.

Adriana N. Swartzell - B48

illumina, Inc, Promega Corporation (Discussion of Unlabeled  
Investigational Use of Product/Device).

Lauren J. Swift, MSc - A10

Discloses no financial relationships with commercial entities.

Henry J. Swofford, MSFS

1Q Inc (Discussion of Commercial Products or Services). - F5

DFSC (Employee). - B167, F5

Madeleine J. Swortwood, PhD - K65

Purdue Pharma L.P. (Discussion of Commercial Products  
or Services).

Angelica D. Szewczak, BS - B33

PerkinElmer Inc, VUV Analytics, Inc (Discussion of  
Commercial Products or Services).

### T

Lauren Taddeo, BA - E12

3M, Beverly Hills Polo Club, Chelsea Loft, JCPenney, Nike,  
Inc, P. Kaufmann Fabrics, The Scotts Company LLC, Tommy  
Hilfiger (Discussion of Commercial Products or Services).  
Duquesne University (Other Financial/Material Support).

Mohammad A. Tahir, PhD - J8

Discloses no financial relationships with commercial entities.

Yoshitaka Takase, MS - C18

AccessData, Apple Inc, Bluetooth SIG, Inc., Hipp, Wyrick  
& Company, Inc, Hörz, M., Microsoft Corporation, Nikon, Inc,  
Piacentini, M., VMware Inc, (Discussion of Commercial  
Products or Services).

Chikako Takei - B15

Discloses no financial relationships with commercial entities.

Sean D. Tallman, PhD - A76

National Science Foundation, Japanese Society for the  
Promotion of Science, National Institute of Justice  
(Grant Support).

Tobin A. Tanaka, BS - J26

Discloses no financial relationships with commercial entities.

Adrian M. Taylor, PhD - K2

SCIEX (Discussion of Commercial Products or Services and  
Employee).

Cassandra R. Taylor, BS - B196

Discloses no financial relationships with commercial entities.

Kelly Taylor, BS - W21

Discloses no financial relationships with commercial entities.

Caryn E. Tegtmeier, MA - E33

Discloses no financial relationships with commercial entities.

Warren D. Tewes, DDS - G30

Discloses no financial relationships with commercial entities.

Patrick W. Thevissen, PhD - G18

3D Systems, Cad Cam Technologies (Discussion of  
Commercial Products or Services).

Kristen Thomas, MD - H116

Discloses no financial relationships with commercial entities.

Katie Thompson, MD - H106

Discloses no financial relationships with commercial entities.

Eric W. Thornton, BA - E76

CBI (Employee).

Ronald R. Thrasher, PhD - I42

Discloses no financial relationships with commercial entities.

Hui Tian, BS - E15

Discloses no financial relationships with commercial entities.

Morris V. Tidball-Binz, MD - W16

Discloses no financial relationships with commercial entities.

Shanan S. Tobe, PhD - B129

GEDNAP German DNA profiling, Leica Microsystems, Life  
Technologies Corporation, Promega Corporation (Discussion  
of Commercial Products or Services).

Jeffery K. Tomberlin, PhD - W22

National Institute of Justice (Grant Support).

Kathleen Toomey, BS - K24

Agilent Technologies (Discussion of Commercial Products  
or Services).

Indiana State Department of Toxicology (Employee).

Tamara D. Tracy, BS - F12

Nikon Camera Company (Discussion of Commercial  
Products or Services and Unlabeled/Investigational Use  
of Product/Device).

Linda Tran, BS - W3

Discloses no financial relationships with commercial entities.



# FINANCIAL DISCLOSURE

Patrizia Trapella, JD, MA - E56

Discloses no financial relationships with commercial entities.

Lauren Traveller, DNP - S2

Discloses no financial relationships with commercial entities.

Lauriane Tremeau-Cayel, BS - B116

Waters Corporation (Discussion of Commercial Products or Services).

National Institute of Justice (Grant Support).

Carlos Alberto Trindade - D2

Discloses no financial relationships with commercial entities.

Michele Triplett, BS - F3

Discloses no financial relationships with commercial entities.

Kristan A. Troop, BS - W11

Discloses no financial relationships with commercial entities.

Nilesh K. Tumram, MD - H117

Discloses no financial relationships with commercial entities.

Evonne Turner-Byfield, MA - A108

Discloses no financial relationships with commercial entities.

Peter V. Tytell, BA - J14, S1

Discloses no financial relationships with commercial entities.

## U

Douglas H. Ubelaker, PhD - ES1, W16

Discloses no financial relationships with commercial entities.

Istvan Ujvary, PhD - W5

Discloses no financial relationships with commercial entities.

Petra Urbanová, PhD - E82

Agisoft LLC (Discussion of Commercial Products or Services).

Masaryk University (Employee).

Suzanne R. Utley, MD - H57

Discloses no financial relationships with commercial entities.

Yuriy Uvaydov, MS - B112

IonSense, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).

U.S. Dept. Justice, DEA Northeast Laboratory (Employee).

## V

Michele Vaira, JD - E108, F17, I8

Discloses no financial relationships with commercial entities.

Kristine Van Natta - K19, K20

Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services/Employee).

Eduard Van Zalen, MSc - W18

Netherlands Forensic Institute (Employee).

Taylor R. Vanek - E75

Discloses no financial relationships with commercial entities.

Stefano Vanin, PhD - G9

Discloses no financial relationships with commercial entities.

Rigo Vargas, BA - J2

Discloses no financial relationships with commercial entities.

Sigella Vargas, MD - I10

Discloses no financial relationships with commercial entities.

Patrick E. Vaughan, BS - D30

Michigan State University (Grant Support).

Cory A. Vaught, BSc - B67

PerkinElmer Inc, VUV Analytics, Inc (Discussion of Commercial Products or Services).

Jessica Ann Veltri, MS - W11

Discloses no financial relationships with commercial entities.

Francesco Ventura, MD - H113, H114

Discloses no financial relationships with commercial entities.

Elvira Ventura Spagnolo - E90

Discloses no financial relationships with commercial entities.

Duarte Nuno Vieira, MSc, PhD, MD - E87, W16

Discloses no financial relationships with commercial entities.

Sara L.M. Vilão, MD - H123

Discloses no financial relationships with commercial entities.

Lauren M. Vinsick, BS - W8

Discloses no financial relationships with commercial entities.

Kyle E. Vircks, MS - B63

JEOL, Ltd. (Discussion of Commercial Products or Services).

National Institute of Justice, Office of Justice Programs, U.S.

Department of Justice. (Grant Support).

Silvia D. Visonà, MD - H72

Discloses no financial relationships with commercial entities.

Michael J. Vitacco, PhD - I40

Discloses no financial relationships with commercial entities.

Laura Volpini, PhD - I19

Discloses no financial relationships with commercial entities.

Jelena Vucinic, MD - I11

Discloses no financial relationships with commercial entities.

## W

Crystal L. Wagoner, MFS - E97

Discloses no financial relationships with commercial entities.

Kristy Waite, DO - H48

Discloses no financial relationships with commercial entities.

Stewart Walker, PhD - H42

Flinders University (Employee).

William E. Wallace, PhD - B138

Discloses no financial relationships with commercial entities.

H. Chip Walls, BS - W20

Forensic Analytical & Clinical Toxicology (Paid Consultant).

Rebecca Walter, BS - B193

Discloses no financial relationships with commercial entities.

Jeff Walterscheid, PhD - W5

Armed Forces Medical Examiner System (Employee).

Heather E. Waltke, MS - W24

DOJ, NIJ, OIFS (Employee).

John Z. Wang, PhD - J10

Discloses no financial relationships with commercial entities.



New Orleans  
2017

## FINANCIAL DISCLOSURE

- Ling Wang, MS - B25  
National Institute of Justice (Grant Support).
- Young Wang, BS - E73  
MagLe Life Sciences (Discussion of Commercial Products or Services).
- Margaret Warner, PhD - E25  
Discloses no financial relationships with commercial entities.
- Monica M. Warner, MA - A101  
Discloses no financial relationships with commercial entities.
- Ken Watanabe - B2  
Japan Society for the Promotion of Science - KAKENHI (Grant Support).
- Momoko Watanabe - D11  
Discloses no financial relationships with commercial entities.
- Frances L. Watson, JD  
IU McKinney School of Law (Employee). - F35  
Cybergenetics (Discussion of Commercial Products or Services). - F11
- Courtney Weatherbee, BS - H93  
Discloses no financial relationships with commercial entities.
- Lauren Weidner, PhD - H14  
Big Heart Pet Brands, Bumble Bee Seafoods, Nestlé Purina Pet Care Company (Discussion of Commercial Products or Services).
- Robert Weinstock, MD - I37  
Discloses no financial relationships with commercial entities.
- Bruce S. Weir, PhD - B102  
Discloses no financial relationships with commercial entities.
- Cory A. Weiss, BS - B57  
Pennsylvania State University (Other Financial/Material Support).
- Kurt D. Weiss, MS  
Discloses no financial relationships with commercial entities.  
- D39  
Strava, Inc (Discussion of Commercial Products or Services).  
- D34
- Katherine Welch, MSFS - B45  
Battelle Memorial Institute, Illumina, Inc, Life Technologies Corporation, Promega Corporation (Discussion of Commercial Products or Services).  
Harris County Institute of Forensic Sciences (Employee).
- Roland Wessling, MSc - A146  
Discloses no financial relationships with commercial entities.
- Joseph Levi White, MS  
Cellebrite Company, Niantic, Inc (Discussion of Commercial Products or Services). - C16  
AccessData, Cellebrite Company, Griffeye, Guidance Software, Inc, Magnet Forensics, (Discussion of Commercial Products or Services). - C6
- Teresa A. White, MA - W15  
Discloses no financial relationships with commercial entities.
- Jonas Widness - B29  
Discloses no financial relationships with commercial entities.
- Matthew C. Wietbrock, BS - L1  
Discloses no financial relationships with commercial entities.
- Patrick G. Wiita, MD - I20  
Discloses no financial relationships with commercial entities.
- Amanda A. Wilberg, BS - B22  
Discloses no financial relationships with commercial entities.
- Leah Wilk - D32  
Forensic Technical Solutions B.V. (Employee).
- Amanda Williams, MA - A27  
University of Nevada Reno Mountain, Desert, Forensic Anthropologist - Alice M. Brues Award (Grant Support).
- Anna Williams, PhD - A31, H84  
University of Huddersfield, UK (Employee).
- C. Ken Williams, MS, JD - S2  
Discloses no financial relationships with commercial entities.
- David A. Williams, DDS - E53  
Discloses no financial relationships with commercial entities.
- Diana W. Williams, MSFS - B94  
Illumina, Inc, MO BIO Laboratories, Inc (Discussion of Commercial Products or Services).  
Defense Forensic Science Center (Employee).
- Joyce P. Williams, DNP - E53  
Discloses no financial relationships with commercial entities.
- Kona Williams, MD - A128, H103  
Discloses no financial relationships with commercial entities.
- Mary R. Williams, MS - B75  
National Institute of Justice (Grant Support).
- Shannan Williams, MA - B203  
National Institute of Standards and Technology (Employee).
- T.L. Williams, MFS - W11  
Discloses no financial relationships with commercial entities.
- Emily A. Williamson, BS - K14  
Restek Corporation, SCIEX, Shimadzu Corporation, Whatman plc (Discussion of Commercial Products or Services)
- Sheila Willis, PhD - B34  
Discloses no financial relationships with commercial entities.
- Teresa V. Wilson, PhD - A115  
Discloses no financial relationships with commercial entities.
- Angelica D. Wilz, BS - B164  
Sigma-Aldrich Co. LLC (Discussion of Commercial Products or Services).  
Cedar Crest College Forensic Science Program (Other Financial/Material Support).
- Allysha P. Winburn, MA - A87, A88  
Discloses no financial relationships with commercial entities.
- Ashley Windom - B68  
IonSense, Inc, Thermo Fisher Scientific Inc (Discussion of Commercial Products or Services).  
Defense Threat Reduction Agency (Grant Support).
- Brandee L. Winkler, BS - H124  
Discloses no financial relationships with commercial entities.
- Darcie Lynn Winkler, MSFS - C31  
Apple Inc, Dropbox, Inc, Google Inc, Microsoft Corporation (Discussion of Commercial Products or Services).  
Stroz Friedberg, LLC (Employee).
- Andrew J. Winter, MS - W3  
Discloses no financial relationships with commercial entities.





# FINANCIAL DISCLOSURE

Barbara C. Wolf, MD - W4

Discloses no financial relationships with commercial entities.

Jody M. Wolf, MS - B199, E99

Discloses no financial relationships with commercial entities.

Robert E. Wood, DDS, PhD - A131, G22

Discloses no financial relationships with commercial entities.

Molly E. Woodson, BA - B108

QIAGEN, Inc, ZyGem Corporation Ltd (Discussion of Commercial Products or Services).

VCU Quest for Innovation Commercialization Fund (Grant Support).

Michael S. Woolf, MS - H128

The R Foundation, Illumina, Inc (Discussion of Commercial Products or Services).

Erin M. Worrell, BSc - E27

Discloses no financial relationships with commercial entities.

Kelly L. Wouters, PhD - B176

Discloses no financial relationships with commercial entities.

Rachel A. Wynalda, MS - W11

Discloses no financial relationships with commercial entities.

Timothy Wysozan, BS - H121

Discloses no financial relationships with commercial entities.

Xiang Zhang, MD - H133

Discloses no financial relationships with commercial entities.

Xiaoyu A. Zheng, MS - B36

Colt's Manufacturing Company LLC, Glock, Inc, Sig Sauer, Smith & Wesson, Sturm, Ruger & Co., Inc (Discussion of Commercial Products or Services).

National Institute of Standards and Technology (Employee).

Brita Zilg, PhD - H83

Swedish National Board of Forensic Medicine (Employee).

Joel A. Zlotnick, MSFS - J5

Adobe Systems Incorporated, Articulate Global, Inc, Foster + Freeman, Ltd, Lego (Discussion of Commercial Products or Services).

U.S. Department of State (Employee).

Peter D. Zoon, PhD - B178

Discloses no financial relationships with commercial entities.

Silvia Zoppis, MD - B52

Applied Biosystems, Bio-Rad Laboratories, Inc, MP Biomedicals, LLC, Promega Corporation, Streck, Inc, TaKaRa Bio, Inc, Whatman plc (Discussion of Commercial Products or Services).

University of Rome "Sapienza" (Other Financial/Material Support).

## X

Baiyang Xu, MD - H118

Discloses no financial relationships with commercial entities.

## Y

Joshua Yohannan, MS - W5

Discloses no financial relationships with commercial entities.

Christine Yoo, MD - H22

Discloses no financial relationships with commercial entities.

John L. Young, MD - I36

Discloses no financial relationships with commercial entities.

Kim Younsu, PhD - C1

Discloses no financial relationships with commercial entities.

## Z

Andrea Zaferes, BA - W4

Discloses no financial relationships with commercial entities.

Victoria Zeger - B73

Agilent Technologies, PerkinElmer Inc, Shimadzu Corporation (Discussion of Commercial Products or Services).

National Institute of Standards and Technology (Grant Support).

David J. Zelif, MFS - W11

Discloses no financial relationships with commercial entities.



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Anthropology-A55, A83, A99, E26, H18  
Antibody-B108  
Aorta-H150  
APB-K34  
Apple® IOS®-B28  
Apple® Watch®-C18  
Applied Behavioral Theory-I42  
Applied Theory-I42  
Appropriate-J3  
Apulia Region-E108  
Arabic and English-C3  
Arabic Handwriting-J18, J19  
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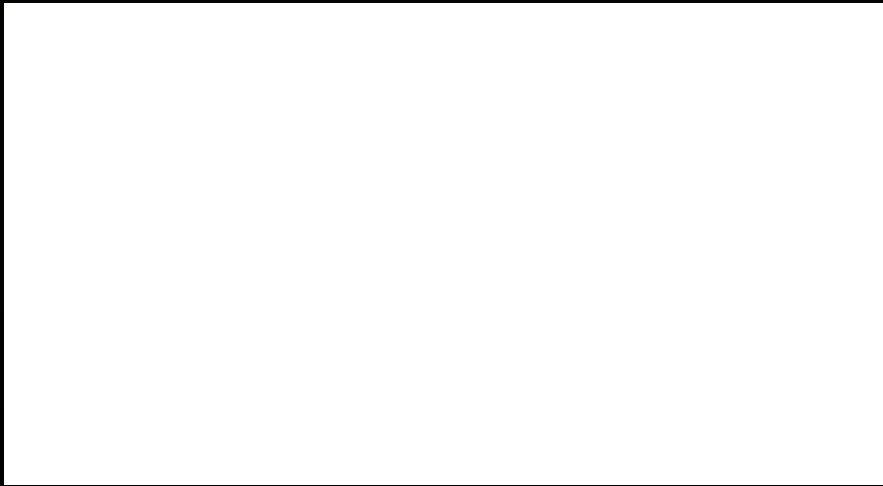




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