

# GENERAL

## Wednesday

### Poster Session

- 11:30 am – 1:00 pm **F1** **A Small Molecule Chemical Analysis of Residual Odor From Odor Recognition Test by Human Remains Canine Teams**  
*Shawn Campagna, PhD\**; *Zane Vickery, BS*; *Katarina Jones, PhD*; *Hector Castro, PhD*; *Dawnie Steadman, PhD*; *Mary Cablk, PhD*; *Mary Davis, MS*; *James Ha, PhD*
- 11:30 am – 1:00 pm **F2** **An Analysis of Hidden Childhood Exposure to Xenobiotics in Cases of Child Abuse: A Decade-Long Study at the Meyer Children’s Hospital IRCCS of Florence, Italy**  
*Martina Focardi, MD\**; *Marta Romanelli, MD\**; *Valentina Gori, MD\**; *Fabio Vaiano, PhD*; *Andrea Costantino, MD*; *Beatrice Defraia, MD*; *Rossella Grifoni, MD*; *Ilenia Bianchi, PhD*; *Laura Nanni, MD*; *Stefania Losi, MD*; *Vilma Pinchi, PhD*
- 11:30 am – 1:00 pm **F3** **An Interdisciplinary Review of Standard Operating Procedures Among United States-Accredited Laboratories**  
*Marion Davidson, MS\**; *Jeff Kukucka, PhD*; *Brett Gardner, PhD*; *Allysha Winburn, PhD*; *Kayla A. Burd, PhD*  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 11:30 am – 1:00 pm **F4** **The Development and Identification of a Thin Layer Chromatography Procedure for the Rapid Identification of Cannabis Plants Through Its Major Cannabinoids**  
*Amadeo Pérez, MD\**; *Elena Gonzalez-Burgos, PhD*; *Teresa Pérez, PhD*; *Maria Pieri, PhD*; *Pascale Basilicata, PhD*; *Dolores Serrano, PhD*; *Michele Di Nunzio, PhD*
- 11:30 am – 1:00 pm **F5** **Does Technology Weaken the Fight for a Fair Trial? Modern Policing and Challenges of the Criminal Defense Investigation**  
*Briana Verdoorn, MA\**
- 11:30 am – 1:00 pm **F6** **Eye in Crime Scene Investigation**  
*Sushil Bhatt, MS\**; *Jagmahender Singh Sehrawat, PhD*
- 11:30 am – 1:00 pm **F7** **WITHDRAWN**
- 11:30 am – 1:00 pm **F8** **From Flat Photos to 3D Wonders: Cutting-Edge Tech Is Changing Forensic Investigations**  
*Giulia Berneschi, MD\**; *Rebecca Maggi, MD\**; *Chiara Ariani, MD\**; *Giacomo Visi, MD*; *Eleonora Mezzetti, MD*; *Marco Di Paolo, MD*; *Marika Floris*
- 11:30 am – 1:00 pm **F9** **Long-Term DNA Stability on Buccal Swabs: Findings From Simulated Paternity Cases**  
*Franzoni Anna, MS\**; *Michele Rosso, PhD*
- 11:30 am – 1:00 pm **F10** **Protecting Arson Investigators From Exposure to Toxic and Hazardous Substances in Fire Scene Debris**  
*Abdulrhman Dhabbah, PhD\**

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## Thursday

### Poster Session

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11:30 am – 1:00 pm	<b>F11</b>	<b>Multiple Firearm Wound Suicides in Maryland: A Ten-Year Look Back</b> <i>Jenaye Mack, MD*</i> ; <i>Nicholas Boire, MD</i> ; <i>Joseph Mininni, MD</i> ; <i>Stephanie Dean, MD</i>
11:30 am – 1:00 pm	<b>F12</b>	<b>Northern Microbes Tell a Story: Human Decomposition Influences on the Soil Microbiome in the Upper Peninsula of Michigan</b> <i>Mandy Joslyn, MS*</i> ; <i>Jane Harris, PhD</i> ; <i>Josh Sharp, PhD</i>
11:30 am – 1:00 pm	<b>F13</b>	<b>Optimizing DNA Retrieval for Insect Identification From Specimens Prepared for Morphological Analysis</b> <i>Riley Hoffman, BS*</i> ; <i>Nicholas Miller, PhD</i>
11:30 am – 1:00 pm	<b>F14</b>	<b>Sparks and Burns: A Histological Study on the Effect of Firework Explosions on Pig Skin</b> <i>Naomi Iacoponi, MD*</i> ; <i>Matteo Leoni, MD</i> ; <i>Rebecca Maggi, MD</i> ; <i>Gabriella Maisetta, MD</i> ; <i>Chiara Casula, MD</i> ; <i>Paride Minervini</i> ; <i>Marco Di Paolo, MD</i>
11:30 am – 1:00 pm	<b>F15</b>	<b>The Detection of Pharmaceutical and Illicit Drugs in Municipal Wastewater Using Gas Chromatography/Mass Spectrometry</b> <i>Will Harris, BS*</i> ; <i>Ellen Mwenesongole, PhD</i>
11:30 am – 1:00 pm	<b>F16</b>	<b>The Development of LAMP-ICS and FastPCR-ICS of Human/Male Multiplex Assay for Rapid On-Site Screening</b> <i>Yujin Oh, BS*</i> ; <i>Hakrae Lee, BS</i> ; <i>Yebin Kim, BS</i> ; <i>Yeju Kim, BS</i> ; <i>Si-keun Lim, PhD</i>
11:30 am – 1:00 pm	<b>F17</b>	<b>The Impact of Sound Suppressors on Gunshot Residue Deposition</b> <i>Kathryne Hartung, BS*</i> ; <i>Alexis Moser, BA</i> ; <i>Jennifer Turner, MSFS</i>
11:30 am – 1:00 pm	<b>F18</b>	<b>The Impact of Storage and Container Options for Human Remains Detection Training Aids</b> <i>Daigoro Greco, BS*</i>
11:30 am – 1:00 pm	<b>F19</b>	<b>The Popularity of Biometrics in India, Along With the Challenges</b> <i>Ramandeep Kaur, MS*</i> ; <i>Mukesh Kumar Thakar, PhD</i>
11:30 am – 1:00 pm	<b>F20</b>	<b>The Prevalence of DNA on Car Vehicles for Guidance in Collecting Samples</b> <i>Joshua Boster, BS*</i> ; <i>Kathryn Schoeneberg</i> ; <i>Jennifer McMurray, MS</i> ; <i>Madison Myers, BS</i> ; <i>Jeremy Chappell, BA</i> <i>(FSF Emerging Forensic Scientist Award Poster Presentation)</i>

## Thursday—Session I

### Evidence Identification

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Moderator: Tara Rick

8:30 am – 8:45 am	<b>F21</b>	<b>A Highly Portable and Ultra-Sensitive Platform for Rapid Forensic Identification of Wildlife Species</b> <i>Nidhi Subhashini, PhD*</i>
8:45 am – 9:00 am	<b>F22</b>	<b>A High-Throughput, Multi-Biochemical Analysis of Pollen Grains for Their Identification in a Forensic Context</b> <i>Jack Trimble, BS*</i> ; <i>Kaitlyn Cierpik</i> ; <i>Camron Melendez</i> ; <i>James McAleer</i> ; <i>Matthieu Baudelet, PhD</i>

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9:00 am – 9:15 am	<b>F23</b>	<b>A Universal Method for Biological Stain Identification Using Raman Spectroscopy: An Investigation of Potential False Positives</b> <i>Igor Lednev, PhD*</i> ; <i>Luis Perez Almodovar, BS</i> ; <i>Lenka Halámková, PhD</i>
9:15 am – 9:30 am	<b>F24</b>	<b>Considerations for Fieldable Drug Detection and Identification by High Resolution Mass Spectrometry</b> <i>Thomas Forbes, PhD*</i> ; <i>Elizabeth Robinson, MS</i> ; <i>Edward Sisco, PhD</i> ; <i>Abigail Koss, PhD</i>
9:30 am – 9:45 am	<b>F25</b>	<b>Investigating Odor Signatures of Electronic Storage Devices</b> <i>Samuel Friday, BS*</i> ; <i>Jon Naples</i> ; <i>Pauline Leary, PhD</i> ; <i>Marisia Fikiet, PhD</i> ; <i>Alyssa Marsico, PhD</i> ; <i>Brooke Kammrath, PhD</i>
9:45 am – 10:00 am	<b>F26</b>	<b>Sustainable Wood Sourcing and Species Identification Through ATR/FTIR Spectroscopy and Machine Learning in Forensic Applications</b> <i>Akanksha Sharma, MS*</i> ; <i>Vishal Sharma, PhD</i>
10:00 am – 10:15 am		<b>BREAK</b>

## Thermal Related

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Moderator: Tolulope Abejide, MSc, MFS

10:15 am – 10:30 am	<b>F27</b>	<b>Finding the Ignition Source in Burned Bones: A Forensic Research Investigation</b> <i>Caighley Logan*</i> ; <i>Suzzanne McColl, PhD</i>
10:30 am – 10:45 am	<b>F28</b>	<b>Postmortem Thermal Injuries Due to Muzzle Flash Ignition</b> <i>Mariana Voudouri, MD*</i>
10:45 am – 11:00 am	<b>F29</b>	<b>Pyrolysis Products Obtained From Household Substrates at Crime Scenes: An Analytical Challenge for Forensic Fire Investigation Experts</b> <i>Khalid Feras, MS*</i> ; <i>Tahir Jamshaid, MPhil*</i>
11:00 am – 11:15 am	<b>F30</b>	<b>The Detection of Accelerants (Petrol and White Spirit) From Cadaver Flies That Fed on Spiked Meat</b> <i>Tolulope Bayode Abejide, MS*</i> ; <i>David Alebiosu, PhD</i>
11:15 am – 11:30 am	<b>F31</b>	<b>The Refinement of a Thermodynamic Model to Explain the Weathering Patterns of Ignitable Liquids on Household Substrates at Elevated Temperatures</b> <i>Chaney Ganninger, BS*</i> ; <i>Glen Jackson, PhD</i>
11:30 am – 1:00 pm		<b>BREAK</b>

## AI Technology

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Moderator: Jerry DeMenna, PhD

1:00 pm – 1:15 pm	<b>F32</b>	<b>Advancing AI-Enhanced Topic Modeling With BERT in Forensic Text Analysis</b> <i>Amir Alipour Yengejeh, MCS*</i> ; <i>Larry Tang, PhD</i>
1:15 pm – 1:30 pm	<b>F33</b>	<b>AI-Enabled Systems and Applications in Forensic Science: A Landscape Analysis and Future Directions</b> <i>Melissa Taylor, BA*</i> ; <i>Henry Swofford, PhD</i> ; <i>Niki Osborne, PhD</i>

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1:30 pm – 1:45 pm	<b>F34</b>	<b>Artificial Intelligence, Forensic Science, and the Criminal Justice System: New Challenges and Ethical Implications for Innovative Technologies</b> <i>Giuseppina Seppini, MSN*</i> ; <i>Iolanda Ippolito, MS</i>
1:45 pm – 2:00 pm	<b>F35</b>	<b>Lessons Learned From the Development of Sexual Assault Kit Evidence Machine Learning Models</b> <i>Julie Valentine, PhD*</i> ; <i>Luke Johnson, BS*</i> ; <i>Leslie Miles, DNP</i> ; <i>Brian Brown, MS</i> ; <i>Connor Alder, BS</i> ; <i>Andrew Criddle, BS</i>
2:00 pm – 2:15 pm	<b>F36</b>	<b>The Application of Artificial Intelligence in Medicolegal Assessments</b> <i>Giada Rovito, MD*</i> ; <i>Matilde Ruju, MD*</i> ; <i>Luca Diani, MD*</i> ; <i>Irene Pradelle, MD</i> ; <i>Laura Camilla Gasparini, MD</i> ; <i>Felice Carabellese, MD</i> ; <i>Margherita Neri, MD, PhD</i>
2:15 pm – 2:30 pm	<b>F37</b>	<b>The European AI Act: A Risk-Based Approach to Regulating AI</b> <i>Veronica Scotti, JD*</i>
2:30 pm – 2:45 pm	<b>F38</b>	<b>Technology: A Tool for Transformation of Data Element Exchange in Specialized Types of Medicolegal Death Investigations</b> <i>Kelly Keyes, BS*</i> ; <i>Erica Fornaro, BS</i> ; <i>Jeri Roper-Miller, PhD</i>
2:45 pm – 3:00 pm	<b>F39</b>	<b>The Impact of Automated Asylum Determination Processes on Asylum Applicants Subjected to Acts of Torture</b> <i>Hasna Sheikh, LLM*</i> ; <i>Elspeth Guild</i> ; <i>Nikolas P. Lemos, PhD</i>
3:00 pm – 3:15 pm		<b>BREAK</b>

## Standards

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Moderator: Brett Harding, MBA

3:15 pm – 3:30 pm	<b>F40</b>	<b>Developing Standards and Risk Management Profiles for the Responsible Adoption of Artificial Intelligence in Forensic Science</b> <i>Niki Osborne, PhD*</i> ; <i>Melissa Taylor, BA</i> ; <i>Reva Schwartz, MA</i>
3:30 pm – 3:45 pm	<b>F41</b>	<b>Improving Polygraph Screening Examinations With Computerized Scoring Algorithms and Minimum Data Standards</b> <i>James O'Burke, MS*</i>
3:45 pm – 4:00 pm	<b>F42</b>	<b>The Benefits and the Challenges of an Independent Crime Lab</b> <i>Alesia Wheeler-Moore, MA*</i> ; <i>Erin Price, BS</i>
4:00 pm – 4:15 pm	<b>F43</b>	<b>The District of Columbia (DC) Department of Forensic Sciences: A Fall From Grace and a Path Back to Accreditation</b> <i>Jennifer Love, PhD*</i> ; <i>Francisco Diaz, MD*</i>
4:15 pm – 4:30 pm	<b>F44</b>	<b>Washington, DC, Department of Forensic Sciences (DFS): A Unique Approach to Developing Impactful, Strategic Testing Plans While Minimizing Cognitive Bias</b> <i>Samira Taylor, BS*</i>
4:30 pm – 5:00 pm	<b>F45</b>	<b>The National Institute of Justice Research and Development Program</b> <i>Lucas Zarwell, MSFS*</i>

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## Thursday – Session II

### Identification

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Moderator: TBD

8:30 am – 8:45 am	<b>F46</b>	<b>A Photograph of a Partially Skeletonized Finger Confirms Positive Identification: A Case Study</b> <i>Emily King, BA*; Carrie Costello, MS</i>
8:45 am – 9:00 am	<b>F47</b>	<b>Overlooking the Utility of the Tattoo as an Investigatory Lead: Comparing Tattoo Documentation Practices Among Investigators and Medical Examiners</b> <i>Deanna Corsetti, BS*; Marcelle Morin, MS; Michelle Miranda, PhD</i>
9:00 am – 9:15 am	<b>F48</b>	<b>A Study in Distortion on Determining Latent Print Classification</b> <i>Kevin Parmelee, PhD*; Charu Arya, MBA</i>
9:15 am – 9:30 am	<b>F49</b>	<b>DNA Identification: Lessons Learned From the Largest Mass Casualty Event in Israel's History</b> <i>Nurit Bublil, PhD*</i>
9:30 am – 9:45 am	<b>F50</b>	<b>Seasonal Patterns of Fly-Associated <i>Ignatzschineria</i> in Human Decomposition- Impacted Soils</b> <i>Lois Taylor, PhD*; Allison Mason, PhD; Jennifer DeBruyn, PhD</i>
9:45 am – 10:00 am	<b>F51</b>	<b>A Preliminary Study: The Application of 3D Models, Simulations, and Finite Element Analysis (FEA) in Shooting Reconstruction</b> <i>Baillie Poulton, MS*; Keith Morris, PhD</i>
10:00 am – 10:15 am		<b>BREAK</b>

### Cases

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Moderator: Cliff Akiyama, MPH, MA

10:15 am – 10:30 am	<b>F52</b>	<b>A Couple of Air Fresheners Ought to Do the Trick! A Case Report on Human Remains Found in an Occupied Residence After Ten Years</b> <i>Robert Hunkeler, MFS*; James Fannin, AS; Kent Harshbarger, MD</i>
10:30 am – 10:45 am	<b>F53</b>	<b>Cigarette Butt DNA Solves a 30-Year-Old Homicide Cold Case: A Case Study</b> <i>Megan Collins*; Carrie Costello, MS</i>
10:45 am – 11:00 am	<b>F54</b>	<b>In the Wrong Place at the Wrong Time</b> <i>Andra Lewis, PhD*</i>
11:00 am – 11:15 am	<b>F55</b>	<b>When All You Have Is a Foot</b> <i>Lara Newell, MA*</i>
11:15 am – 11:30 am	<b>F56</b>	<b>Shots Fired! The Escalating Rise of Violence Against Law Enforcement by Youth Street Gangs After the COVID-19 Pandemic</b> <i>Cliff Akiyama, MPH, MA*</i>
11:30 am – 1:00 pm		<b>BREAK</b>

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## Education

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Moderator: Theresa DeAngelo, MSFS

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| 1:00 pm – 1:15 pm | <b>F57</b> | <b>A Simple Water Laboratory Experiment to Teach Students Good Laboratory Practices and Quality Assurance</b><br><i>Tamra Legron Rodriguez, PhD*</i> ; <i>Charoltte Disney</i> ; <i>Dana-Marie Dennis, PhD</i>                  |
| 1:15 pm – 1:30 pm | <b>F58</b> | <b>CSixR: Creating a Virtual Reality CSI Application</b><br><i>David Fisher, MS*</i> ; <i>Kevin Parmelee, PhD*</i> ; <i>Margarita Vinnikov, PhD</i> ; <i>Michael Kehoe, BS</i>  |
| 1:30 pm – 2:00 pm | <b>F59</b> | <b>Evaluating the Scientific Validity of Forensic Methods: Guidelines for Study Design and Analysis</b><br><i>Michael Rosenblum, PhD*</i> ; <i>Maria Cuellar, PhD*</i> ; <i>Susan Vanderplas, PhD</i> ; <i>Amanda Luby, PhD</i> |
| 2:00 pm – 2:15 pm | <b>F60</b> | <b>Examining Social Belonging and Connectedness in an Online Forensic Science Course</b><br><i>Gina Londino-Smolar, EdD*</i>  |
| 2:15 pm – 2:30 pm | <b>F61</b> | <b>Project-Based Learning in Undergraduate Forensic Chemistry: Standards Development and Professional Practice</b><br><i>April Hill, PhD*</i>   |
| 2:30 pm – 3:00 pm | <b>F62</b> | <b>Using Virtual Reality in Crime Scene Education, Training, and Proficiency Testing</b><br><i>Susan Blankenship, DBA*</i>  |
| 3:00 pm – 3:15 pm |            | <b>BREAK</b>  |

## Miscellaneous

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Moderator: Anita Roman, BS

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| 3:15 pm – 3:45 pm | <b>F63</b> | <b>Grizzlies, Guns, and Glaciers: Interesting National Park Deaths</b><br><i>Tatiana Bihun, MD*</i> ; <i>Joseph Prahlow, MD</i> ; <i>Cristin Rolf, MD</i> ; <i>Richard Sine, BA</i> ; <i>Amy Schaefer, BA</i> ; <i>Kenneth Gallagher, MD</i> ; <i>Gary Zientek, MD</i> ; <i>Karen Cline-Parhamovich, DO</i> |
| 3:45 pm – 4:00 pm | <b>F64</b> | <b>PHD ETDC—The Forensic Reconstruction Methodology: A Scientific Process to Solve Cases and Avoid Wrongful Convictions</b><br><i>Carlos Gutierrez Ayala, DFS*</i>  |
| 4:00 pm – 4:15 pm | <b>F65</b> | <b>Video Technology for Training and Testimony Preparation</b><br><i>Alaina Anderson, MS*</i> ; <i>James Miller, MA</i> ; <i>Mona Colca, BA</i>   |
| 4:15 pm – 4:30 pm | <b>F66</b> | <b>How Research Improves Public Crime Lab Efficiency and Accuracy: The National Institute of Justice-Sponsored Outcomes</b><br><i>Tracey Johnson, MSFS*</i>   |
| 4:30 pm – 4:45 pm | <b>F67</b> | <b>Old Legal Frameworks and New Technologies: The Baltimore, Maryland, Experience</b><br><i>Andrew Northrup, JD*</i>  |

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## Friday

### Poster Session

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- 11:30 am – 1:00 pm     **F68**     **The Stability and Variability of the Korean Saliva Microbiome Over a Period of Time**  
*Ha-Eun Cha, BS\**; *Hye-Seon Cho, BS*; *Ji-woo Lee, BS*; *A-Jeong Jeon, BS*; *Jooree Seo, BS*;  
*Si-keun Lim, PhD*
- 11:30 am – 1:00 pm     **F69**     **The State of Forensic Science in India: Progress and Pitfalls**  
*Moin Ahmad Butt, MS\**; *Mukesh Kumar Thakar, PhD*
- 11:30 am – 1:00 pm     **F70**     **The Will to Conceal the Evidence? A Suspicious Case of a Restraint-Related Death That Occurred in the Hospital**  
*Federica Spina, MD\**; *Giacomo Visi, MD\**; *Chiara Casula, MD\**; *Chiara Ariani, MD\**;  
*Gabriella Maisetta, MD\**; *Luigi Papi, MD*
- 11:30 am – 1:00 pm     **F71**     **You Take My Breath Away! An Unusual Case of Uxoricide-Suicide by Double Choking**  
*Michela Ferrara, MD\**; *Natascha Pascale, MD, PhD\**; *Aldo di Fazio, PhD\**;  
*Mariagrazia Calvano, MD*; *Giuseppe Bertozzi, MD*; *Mauro Ciavarella, MD*
- 11:30 am – 1:00 pm     **F72**     **An Efficacy Catalytic Hydrated Photo-Oxidation Tool in Reducing Biocontaminants During Autopsy Procedures: A Pilot Study**  
*Francesco Sessa, PhD\**; *Martina Francaviglia, MD\**; *Maria Paola Pinacchi, MD\**;  
*Massimiliano Esposito, MD*
- 11:30 am – 1:00 pm     **F73**     **Child Abuse or an Accident? The Role of the Forensic Expert in Pediatric Emergency Departments: A Case Series**  
*Manoj Parchake, MD\**
- 11:30 am – 1:00 pm     **F74**     **Sodium Nitrite Poisoning: “Suicide Kits” Sold on the Internet**  
*Madelyn Kinneary, MS\**; *Sophia Garcia-Jackson, MS*; *Erica Williams, MD*
- 11:30 am – 1:00 pm     **F75**     **The First Fingerprint Conviction: Argentina’s Historic 1892 Fingerprint Case**  
*Jeff Teitelbaum, MA\**
- 11:30 am – 1:00 pm     **F76**     **Combating Sexual- and Gender-Based Violence: A Crucial Imperative in the Great Lakes Region of Africa**  
*Edwin Huffine, MS\**; *Dora Byamukama, LLM*
- 11:30 am – 1:00 pm     **F77**     **WITHDRAWN**

## Friday – Session I

### Standards

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*Moderator: Emily King, BA*

- 8:30 am – 9:00 am     **F78**     **An Update on Forensic Science Standards Within the Crime Scene Investigation Disciplines**  
*Michael Kessler, PSM\**; *Charles DeFrance, MFS*
- 9:00 am – 9:15 am     **F79**     **Progress on Developing Dogs and Sensors Standards: Sniffing Out Success**  
*Kenneth Furton, PhD\**; *Paola A. Prada-Tiedemann, PhD*; *Suzanne Perry, BA*
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9:15 am – 9:30 am	<b>F80</b>	<b>Standards Development Activities in Medicolegal Death Investigation, Including Disaster Victim Identification</b> <i>Kelly Keyes, BS*; Michelle Rippy, EdD</i>
9:30 am – 9:45 am	<b>F81</b>	<b>Standards Development Activities in Wildlife Forensic Biology</b> <i>Jason Byrd, PhD*; Christina Lindquist, MSFS*</i>
9:45 am – 10:00 am	<b>F82</b>	<b>Washington, DC, Department of Forensic Sciences: Achieving Accreditation Through Collaboration</b> <i>Krystyna Hopkinson, MSFS*; Timothy Scanlan, PhD</i>
10:00 am – 10:15 am		<b>BREAK</b>

## Case Related

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Moderator: Lara Newell, MA

10:15 am – 10:30 am	<b>F83</b>	<b>A Facial Perspective Atlas: A Tool to Assist Morphological Facial Comparisons</b> <i>Katie Pottage, MS*; James Zjalic, MS</i>
10:30 am – 10:45 am	<b>F84</b>	<b>Forensic Reconstruction and Forensic Taphonomy: An Experiment for a High-Profile Case Conducted for the First Time in Chile</b> <i>Carlos Gutierrez Ayala, DFS*</i>
10:45 am – 11:00 am	<b>F85</b>	<b>The Sad Story of Two Young Lovers: The Truth Lies in the Details</b> <i>Giovanni De Gabriele, MD*; Antonio Marzaioli, MD; Angela Colucci, MD; Sara Di Trani, MD; Alessandro Cristalli, MD; Enrica Macorano, MD; Francesco Introna, MD, PhD</i>
11:00 am – 11:15 am	<b>F86</b>	<b>Combating Wrongful Murder Statements With Technology: A Wrongful Conviction Case Study</b> <i>Kevin Parmelee, PhD*</i>
11:15 am – 11:30 am	<b>F87</b>	<b>Forensic Sciences as an Instrument for Improving the Lives of Populations: A Multidisciplinary Theoretical-Practical Case Study in Brazil</b> <i>Marcio Fernandes, PhD*; Caroline D'Oca, PhD; João Resende, PhD</i>
11:30 am – 1:00 pm		<b>BREAK</b>

## Technology

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Moderator: Paschal Chinedu Gbaruko, BSC

1:00 pm – 1:15 pm	<b>F88</b>	<b>Electric Vehicles: A Technological Firestorm</b> <i>Stacey Chepren, MS*</i>
1:15 pm – 1:30 pm	<b>F89</b>	<b>Leveraging Analytical Chemistry and Advanced Flow Visualization for the Evaluation of Canine Training Aid Containment Systems</b> <i>Shawna Gallegos, PhD*; Matthew Staymates, MS*</i>
1:30 pm – 1:45 pm	<b>F90</b>	<b>A Validation of Inkjet Printing Methodology in the Development of Non-Detonable Explosive Training Aids</b> <i>Shawna Gallegos, PhD*</i>
1:45 pm – 2:00 pm	<b>F91</b>	<b>Investigating Nuisance Alerts Given by Canines Arising From Substrates Exposed to Composition C-4</b> <i>Himanshi Upadhyaya, MS*; Alexis Hecker, MS; John Goodpaster, PhD</i>

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\*Presenting Author



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2:00 pm – 2:20 pm	<b>F92</b>	<b>Micro-CT Imaging and 3D Laser Scanning as Tools for Evidence Presentation in Court</b> <i>Sofia Goia, PhD*</i> ; <i>Charlotte Primeau, PhD</i> ; <i>Mark Williams, PhD</i>
2:20 pm – 2:40 pm	<b>F93</b>	<b>The Effects of a Bullet on the Motion and Distribution of Unburnt Gunshot Residue Particles</b> <i>Lauren White, BS*</i>
2:40 pm – 3:00 pm	<b>F94</b>	<b>Process Maps: The Beginning of a Technological Revolution for Fire Investigations</b> <i>Terry-Dawn Hewitt, LLM*</i>
3:00 pm – 3:15 pm		BREAK

## Identification—Genealogy and Wildlife

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Moderator: Megan Collins

3:15 pm – 3:30 pm	<b>F95</b>	<b>Forensic Genetic Genealogy: An Emerging Tool for Identification in Transnational Missing Persons Cases</b> <i>Aline Minervino, MS*</i> ; <i>Laura Cainé, PhD</i>
3:30 pm – 3:45 pm	<b>F96</b>	<b>Watkins Who?: The Use of Forensic Genealogy in a Medical Examiner’s Cold Case</b> <i>Alex Verdoorn, BA*</i>
3:45 pm – 4:00 pm	<b>F97</b>	<b>The Development and Validation of the EX38 Kit: A Comprehensive Forensic Tool for Enhanced Genetic Identification</b> <i>Atif Adnan, MD, PhD*</i>
4:00 pm – 4:15 pm	<b>F98</b>	<b>Wildlife Forensic Proteomics: Approaches and Applications</b> <i>Ashley Spicer, MS*</i> ; <i>Nicole Slattengren, MS</i> ; <i>Kyle Burk, MS</i> ; <i>Glendon Parker, PhD</i>
4:15 pm – 4:45 pm	<b>F99</b>	<b>You Can Get DNA Conclusions From That?: Case Studies Involving Animal DNA</b> <i>Christina Lindquist, MSFS*</i> ; <i>Teri Kun, MSFS</i>

## Friday—Session II

### Coroners

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Moderator: Ashley Spicer, MSFS, CWFS

8:30 am – 8:45 am	<b>F100</b>	<b>Safeguarding the Community: Rewriting the Narrative on the Modern Coroner in Today’s Society</b> <i>Brett Harding, MBA*</i> ; <i>Christina Di Loreto, MD</i> ; <i>Jessica Macdonald, MA</i> ; <i>Richard Riffle, BS</i>
8:45 am – 9:00 am	<b>F101</b>	<b>Technological Advances to Medical Examiner and Coroner Case Management Systems</b> <i>Carri Cottengim, MA*</i> ; <i>Mark Montgomery, MPH</i> ; <i>Margaret Warner, PhD</i>
9:00 am – 9:15 am	<b>F102</b>	<b>Technology Use Among the Nation’s Medical Examiner and Coroner Offices: A Snapshot</b> <i>Jeri Roper-Miller, PhD*</i> ; <i>Kelly Keyes, BS</i> ; <i>Connor Brooks, MA, MSc</i> ; <i>Micaela Ascolese, BA</i> ; <i>Liat Weinstein, BA</i> ; <i>Hope Smiley-McDonald, PhD</i>
9:15 am – 9:30 am	<b>F103</b>	<b>How Local Coroner/Medical Examiners Can Contribute to Advancing Forensic Science</b> <i>David Kintz, BS*</i>
9:30 am – 9:45 am	<b>F104</b>	<b>Cell Phones—Can They Replace Advanced Digital Cameras in Medicolegal Scene Photography Investigations?</b> <i>Rachael Landrie, BS*</i> ; <i>Francisco Diaz, MD</i>

# GENERAL

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9:45 am – 10:00 am      **F105**      **Navigating the Challenges: The Struggle of Medicolegal Death Investigations in Sparsely Populated Regions**  
*Michelle Rippy, EdD\*;* *Kelly Keyes, BS*

10:00 am – 10:15 am      **BREAK**

## More Coroners

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Moderator: Tina Ross, PhD

10:15 am – 10:45 am      **F106**      **Mass Fatality on a Budget**  
*Robert Hunkeler, MFS\**

10:45 am – 11:00 am      **F107**      **“We Specialize in the Heartbreakers”: Practitioner Perspectives on Investigating Long-Term Unidentified Persons Cases Throughout the United States**  
*Molly Kaplan, MA\**

11:00 am – 11:15 am      **F108**      **Abuse or Self-Neglect? A Medicolegal Case Study Exploring Multi-Agency Failure to Report a Vulnerable Adult**  
*Ella Butler, MS\**

11:15 am – 11:30 am      **F109**      **Cases of Child Abuse and Maltreatment: A Retrospective Observational Study From Meyer Children’s Hospital IRCCS of Florence, Italy, Between 2010 and 2022**  
*Martina Focardi, MD\*;* *Andrea Costantino, MD\*;* *Marta Romanelli, MD;*  
*Valentina Gori, MD;* *Beatrice Defraia, MD;* *Rossella Grifoni, MD;* *Ilenia Bianchi, PhD;*  
*Laura Nanni, MD;* *Stefania Losi, MD;* *Vilma Pinchi, PhD*

11:30 am – 1:00 pm      **BREAK**

## Miscellaneous

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Moderator: Tiana Mash, PhD

1:00 pm – 1:15 pm      **F110**      **Bridging the Gap: Collaborative Programs and Initiatives That Are Transforming the Interface Between Forensic Science and the Legal System**  
*Caitlin Porterfield, MS\*;* *Mark McCoy, EdD\*;* *Jennifer Schmitz, JD\**

1:15 pm – 1:30 pm      **F111**      **Forensic Intelligence: A Contemporary Application or How to Approach a Paradigm Shift**  
*Joe Trevino, MS\**

1:30 pm – 1:45 pm      **F112**      **The Unexpected Role of Pacemaker Data in Solving a Homicide: A Case Study**  
*Emily King, BA\*;* *Carrie Costello, MS*

1:45 pm – 2:00 pm      **F113**      **“Follow the Bloodstains and Find the Truth”—The Importance of Site Inspection**  
*Chiara Casula, MD\*;* *Naomi Iacoponi, MD\*;* *Damiano Marra, MD;* *Giulia Berneschi, MD;*  
*Julia Lazzari, MD*

2:00 pm – 2:15 pm      **F114**      **Is Forensic Chemistry Different?**  
*Max Houck, PhD\**

2:15 pm – 2:45 pm      **F115**      **A Comparison of Particulate Collection Methods Using Fluorescent Polyethylene Beads and an Introduction to the Use of a Pulse Lavage for Particulate Evidence Collection**  
*Madison Smith, BS\**  
*(FSF Emerging Forensic Scientist Award Oral Presentation)*