

FORENSIC SCIENCE ERROR MANAGEMENT

INTERNATIONAL FORENSICS SYMPOSIUM

July 24-27, 2017 @NIST, Gaithersburg, MD



Tuesday

9:00 AM - 9:30 AM	Welcome and Introductions: Robert Thompson		
9:30 AM - 10:20 AM	Plenary Presentation: Jenifer Smith, Dept. Forensic Sciences: "Seeing the Error of Our Ways: Perspectives from Department of Forensic Science, Washington D.C."		
10:20 AM - 10:40 AM	<i>Break</i>		
10:40 AM - 11:30 AM	Plenary Presentation: James Doyle, NIJ: "Sentinel Event Reviews: Exploring Outside the Stovepipes"		
11:30 AM - 12:30 PM	Panel Presentation: "Overcoming the Next Crisis: Media Relations and Crisis Communications in the Forensic Services Sector" Moderator: Gail Porter, NIST		
12:30 PM - 1:30 PM	<i>Lunch</i>		
Breakout Sessions 1:	Quality Assurance (Trace) Moderator: Marcela Najarro	Criminalistics (DNA) Moderator: Mike Coble	Lab Management (DUI) Moderator: Pam Reynolds

1:30 PM - 1:50 PM	Dr. Michael Sigman, UCF: "Error Management in Fire Debris Analysis"	Anthony Onorato, FBI: "Genotyping Errors in the FBI STR Allele Frequency Database Used for Estimating Match Probabilities in Forensic Investigations" *1:30-2:00	Dr. Ashraf Mozayani, Texas Southern Univ.: "Standardization of Alcohol Interpretation"
1:50 PM - 2:10 PM	Henry Maynard, DFSC: "Learning while Leading: The Defense Forensic Science Center's Blind Proficiency Test Program - Results and Lessons Learned"	Carolyn (Becky) Steffen, NIST: "Lessons Learned from the Characterization of a Large Set of Population Samples: Identifying and Addressing Discordance" *2:00-2:30	Nicolas Tiscione, Palm Beach County Sheriff's Office: "Mitigating Errors and Establishing Priorities Using Case Management Policies in a DUI Lab"
2:10 PM - 2:30 PM	Randall Querry, Amer. Assoc. Lab. Accreditation: Overview and Best Practices for Conducting Effective Internal Audits"		
2:30 PM - 3:00 PM	<i>Break (Cafeteria closes at 3 PM)</i>		
Breakout Sessions 2:	Lab Management Moderator: Lynn Garcia	Criminalistics (Statistics) Moderator: Hari Iyer	Human/Legal Factors Moderator: Cary Oien
3:00 PM - 3:20 PM	Panel: "When Checks and Balances Fail: Lessons Learned from the Austin Police Department's DNA Laboratory"	Dr. Heike Hofmann, Iowa State Univ.: "Investigation of Error Sources in 3D Microscopy of Bullet Lands"	Dr. Brett Gardner, UVA: "Task-Irrelevant and Potentially Biasing Information Requested by Evidence Submission Forms"
3:20 PM - 3:40 PM		Heather Seubert, FBI: "Implementing 3D Virtual Microscopy in to Forensic Firearm/Toolmark Examinations"	Dr. Sharon Kelley, UVA: "A Primer for In-house Case Processing Research"
3:40 PM - 4:00 PM		Dr. Ranjan Maitra, Iowa State Univ.: "Fracture Mechanics-based Match Analysis of Evidence Fragments"	Paulo Kunii, Brazilian Federal Police: "Proposal for a Methodology to Manage Contextual Information in Forensic Handwriting Examination Based on Digitized Documents"

4:00 PM - 4:20 PM	Dr. Karen Kafadar, UVA: "Statistical Modeling and Analysis of Trace Element Concentrations in Forensic Glass Evidence"	Marcel Matley, A and M Matley: "The Central Solution to All Unreliability in Evidence"
4:20 PM - 4:40 PM		

Wednesday

8:30 AM - 8:45 AM	Welcome and Announcements: Robert Thompson		
8:45 AM - 9:30 AM	Plenary Presentation: Dr. Peter Stout, Houston Forensic Science Center: "The Recovery of Houston. The Successes and Challenges of the Ongoing Remediation of Forensic Science in Houston."		
9:30 AM - 10:15 AM	Plenary Presentation: Lynn Garcia, Texas Forensic Science Commission: "Courage Comes First: How Texas Crime Laboratory Leadership and Forensic Practitioners Have Made the State a Leader in Criminal Justice Reform"		
10:15 AM - 10:45 AM	<i>Break</i>		
10:45 AM - 11:30 AM	Plenary Presentation: Dr. Scott Shappell, Embry-Riddle Aeronautical Univ.: "Safeguarding Excellence in Forensic Science"		
11:30 AM - 12:30 PM	Panel Presentation: "Black Box and White Box Forensic Examiner Evaluations - Understanding the Details" Moderator: JoAnn Buscaglia, FBI		
12:30 PM - 1:30 PM	<i>Lunch</i>		
Breakout Sessions 1:	Criminalistics (DNA) Moderator: Mike Coble	Criminalistics (Drugs) Moderator: Edward Sisco	Human/Legal Factors Moderator: Mike Smith
1:30 PM - 1:50 PM	Keith Inman, CSUEB: "Comparison of Open Source Software for Assessing the Weight of Evidence"	Kristin Kelly, WVU: "Evaluation of the Repeatability, Reproducibility, and Uncertainty of Retention Indices and Electron Impact Spectra of Selected Novel Psychoactive Substances"	Amy Jeanguenat, Mindgen, LLC: "Improving Forensic Quality through Forming a Constructive Relationship with Stress"

1:50 PM - 2:10 PM	Dr. Norah Rudin, Forensic DNA Consulting: "Is it Real or is it Stutter, Only the Profile Donor Knows for Sure"	Dr. Sandra Rodriguez-Cruz, DEA: "Assessing the Uncertainty of Net Weight Measurements Throughout the Drug Enforcement Administration (DEA) Laboratory System."	Richard Torres, The Legal Aid Society: "Is Source Code Speech under the Confrontation Clause?"
2:10 PM - 2:30 PM	Ivana Sesardic, Forensic & Analytical Science Service: "Implementation of Blind Reviewing in a Forensic Biology Laboratory"	Dr. Sandra Sachs, Oakland PD: "Drug Chemists are Getting the Right Answers: Assessing Drug Analysis Error Rates in Municipal, County, and Federal Laboratories"	Dr. Glinda Cooper, Innocence Project: "Assessing the Scope of Literature Pertaining to Cognitive Bias in Forensic Science and Other Areas in Criminal Investigations and Prosecutions"
2:30 PM - 3:00 PM	<i>Break (Cafeteria closes at 3 PM)</i>		
Breakout Sessions 2:	Legal Factors Moderator: Lynn Garcia	Digital Evidence Moderator: Barbara Guttman	Quality Assurance (Latent Prints) Moderator: Marty Herman
3:00 PM - 3:20 PM	Panel: "Responding to the Call for Transparency in Forensic Laboratories: A Collaborative Approach"	Dr. Carole Chaski, Inst. For Linguistic Evidence: "Error Rates for Digital Authorship Identification"	Melissa Gische, Michelle Thompson, FBI: "Consensus Panels for Conflict Resolution in Latent Print Examinations"
3:20 PM - 3:40 PM		Dr. Chris Cheng, Yong Guan, Iowa State Univ., CSAFE: "Mobile App Forensics Analysis"	Anthony Koertner, DFSC: "Comparison of Latent Print Proficiency Tests with Latent Prints Obtained in Routine Casework Using Automated and Objective Quality Metrics"
3:40 PM - 4:00 PM		Dr. Jim Jones, George Mason Univ.: "The Uncertain Relationship between Residual Digital Fragments, Files, and Computer Activity"	Anthony Koertner, DFSC: "Data Driven Decisions in Latent Print Examination to Improve Quality"
4:00 PM - 4:20 PM		Imani Palmer, Univ. Illinois Urbana-Champaign: Toward Sound Analysis of Digital Evidence"	Dr. Ashraf Mozayani, Texas Southern Univ.: "Pilot study in Latent Print Conflict Management"

4:20 PM - 4:40 PM	Dr. Jennifer Newman, Iowa State Univ.: "StegoDB: A Dataset for Detecting Mobile Phone Steganography"
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Thursday

8:30 AM - 8:45 AM	Welcome and Announcements: Robert Thompson		
8:45 AM - 9:30 AM	Plenary Presentation: Anthony Tessarolo, Centre of Forensic Sciences: "Doing the Right Thing When You're Wrong "		
9:30 AM - 10:15 AM	Plenary Presentation: Dr. Linzi Wilson-Wilde, National Institute of Forensic Science: "Error Management Issues and Activities in Australia and New Zealand and the Role of the National Institute of Forensic Science"		
10:15 AM - 10:45 AM	<i>Break</i>		
10:45 AM - 11:30 AM	Plenary Presentation: Dr. Antonio Possolo, NIST: "Uncertainty Quantification as Instrument of Justice "		
11:30 AM - 12:30 PM	Panel Presentation: "Legal Disclosure and Discovery of Forensic Evidence: Comparing Civil and Criminal Procedure" Moderator: Jennifer Oliva, WVU College of Law		
12:30 PM - 1:30 PM	<i>Lunch</i>		
Breakout Sessions 1:	Criminalistics (Fingerprints) Moderator: Jessica Staymates	Human/Legal Factors Moderator: Chris Fabricant	Quality Assurance Moderator: Cary Oien
1:30 PM - 1:50 PM	Shelly Brazelle, US Secret Service: "Erroneous Analysis of Laterally Reversed Latent Prints Due to Development Methods"	Panel: "Individualization, Zero Error Rates & the Duty to Correct and Notify"	Roman Karas, FBI: "Establishing Traceability" *1:30-2:00
1:50 PM - 2:10 PM	Sabrina Cillessen, VA Dept. Forensic Science: "A Novel Approach to Addressing Changes of Opinion in Latent Prints"		Robert Nelms, Failsafe Network, Inc.: "Introspection, the Missing Link to True Root Cause Analysis" *2:00-2:30
2:10 PM - 2:30 PM			
2:30 PM - 3:00 PM	<i>Break (Cafeteria closes at 3 PM)</i>		

Breakout Sessions 2:	Crime Scene/Death Invest. Moderator: Robert Thompson	Legal/Human Factors Moderator: Toni Roberts	Quality Assurance (DNA) Moderator: Mike Coble
3:00 PM - 3:20 PM	Dr. Elizabeth Laposata, Forensic Pathology and Legal Medicine: "Error Reduction in Death Investigation: A Defined Role for the Forensic Pathologist in Scientific Analysis and Reasoning Beyond the Autopsy"	Sarah Chu, Innocence Project: "Assuring Quality Helps Ensure Justice"	Ate Kloosterman, Netherlands Forensic Institute: "DNA Casework: Actual Figures on Analytical Errors and Adventitious DNA Database Matches"
3:20 PM - 3:40 PM	Dr. Steven Karch, Consultant Pathologist: "Minimizing Errors: What is a Negative Autopsy?"	Gregg McCrary, Behavioral Criminology International: "Criminal Investigative Failures: Their Impact, Recognition and Avoidance"	Harish Swaminathan, Boston Univ.: "Parameterization of an in silico DNA Pipeline with Laboratory-Specific Experimental Data Allows for Efficient Validation of the DNA Analysis Process"
3:40 PM - 4:00 PM	John Paolucci, Forensics 4 Real Inc.: "The "Pristine Scene"- Minimizing Contamination and Artifacts Created by First Responders and Excessive Personnel Attempting to Access the Crime Scene"	Dr. Darrell Ross, Valdosta State Univ.: "Assessing Human Factors and Mitigating Errors in Officer-Involved Shootings Investigations"	Amy Jeanguenat, Mindgen, LLC: "Can Forensic Laboratories Reduce Contextual Information Bias and Increase Happiness at Work?"
4:00 PM - 4:20 PM	Mehzeb Chowdhury, Durham Univ.: "Take a Cue From NASA: The Real Value of 3D and 360° Imaging in Crime Scene Investigation and the Investigative Process"	Michael Brave, LAAW International, LLC: "What Medical Examiners Should Expect When They Use the Term "Arrest-Related" Inappropriately"	Yunying, Ge, China Inst. Forensic Science: "Staff Elimination Database -- an Effective Way to Detect and Prevent DNA Contamination"
4:20 PM - 4:40 PM	Dr. Craig Beyler, Jensen Hughes: "ISO 17020 is a Bad Fit for Forensic Science Investigation"		