

International Symposium on Forensic Science Error Management Preliminary Program

(Author and Abstract Number are listed - check full program for completed information)

Tuesday, July 21, 2015

CONCURRENT EVENTS

-Time-	-Event- -Location-
0730 - 1700	REGISTRATION North Tower - Crystal Ballroom Lobby
1330 - 1700	EXHIBITS North & South Tower - Public Space
1330 - 1500	POSTER SESSION Washington Ballroom

GENERAL SESSIONS

-Time-	-Event- -Location-	-Presenter- -MODERATOR: MARK STOLOROW-	-Title-
0830 - 0900	WELCOME SYMPOSIUM OPENING Crystall Ballroom Salon A/B	Willie May, Director, National Institute of Standards and Technology (NIST) Jo Handelsman, Associate Director for Science at the White House Office of Science and Technology Policy (OSTP)	Welcome and Symposium Opening
0900 - 1000	KEYNOTE SPEAKERS Crystall Ballroom Salon A/B	Brandon Mayfield, Law Offices of Brandon Mayfield Steven Wax, Legal Director, Innocence Project Oregon	Keynote Lecture
1000 - 1045	PLENARY SPEAKER Crystall Ballroom Salon A/B	Gillian Tully, Forensic Science Regulator, UK Home Office, UK	Learning From Errors

MORNING BREAK

BREAKOUT SESSIONS

1115 - 1215	CRIME SCENE Salon A Moderator: R. Bucht	CRIMINALISTICS I Salon B Moderator: C. Word	CRIMINALISTICS II	DEATH INVESTIGATION	DIGITAL EVIDENCE	HUMAN FACTORS	LAB MANAGEMENT Jackson/Harrison Moderator: R. Thompson	LEGAL FACTORS	QUALITY ASSURANCE Salon C/D/E Moderator: J. Bitter
1115	Crime Scene Errors and Issues Henry Lee (60 min)	The Madrid Fingerprint Error: Root Cause and Procedures Implemented - Melissa Gische					Guidelines for the Use of Root Cause Analysis to Reduce Error and Improve Quality in Forensic Science Laboratories - John Hollway		Considerations on the Efficacy of Accreditation and Laboratory Performance - Eric Steel
1135		Quantifying False Individualization in Latent Identification - Elham Tabassi					Corrective Measures Taken in Response to DNA Extraction Failures Using a Newly Validated Method - Joel McGrory		Proficiency Testing Programme in Forensic GSR and Firearm Investigation - Ludwig Niewohner
1155		Mending Justice and Learning from Error: NJ's Sentinel Events Initiative - Thomas Feucht					Cultural Aspects of Error Management - Victor Weedn		Inaugurating Data Integrity in Forensic Science - Ashraf Mozayani

LUNCH (On Your Own)

BREAKOUT SESSIONS									
POSTER SESSION - Washington Ballroom - Authors are available for presentations									
1330 - 1500	CRIME SCENE Salon A Moderator: M. Najarro	CRIMINALISTICS I Salon B Moderator: T. Roberts	CRIMINALISTICS II	DEATH INVESTIGATION	DIGITAL EVIDENCE	HUMAN FACTORS	LAB MANAGEMENT Jackson/Harrison Moderator: S. Ballou	LEGAL FACTORS	QUALITY ASSURANCE Salon C/D/E Moderator: C. Steffen
1330	The Trauma Patient in the Hospital Emergency Department: An Unrecognized Crime Scene -Jayne Batts	-PANEL- CRIMINALISTICS Bridging the Gap Between Black Box/White Box Research and Implementation in Latent Print Casework - Maria (Toni) Antonia Roberts (moderator); Michelle Thompson, Heidi Eldridge, Itiel Dror, Matt Schwarz, Austin Hicklin					Errors in a DNA Testing Laboratory - Charlotte Word		Error, Error Rates And Uncertainty: What Are They, How Are They Determined and Do They Facilitate The Discovery Of Truth In The Courtroom? - Joseph Bono, Ted Vosk (60 min)
1350	Avoiding Non-selective and Destructive Swabbing - Rebecca Bucht						Detection and Mitigation of Medical Errors - Ted Schenberg		
1410	3D Laser Scanner Error Sources - Meghan Shilling						The Challenge of Auditing Technical Records Generated During Complex DNA Casework Processes - Robert Askew		
1430							Laboratory Management Techniques and Practices for Creating a Culture Where Quality is Top Priority - Natalie Morgan		
1500 - 1530 AFTERNOON BREAK Concourse									
BREAKOUT SESSIONS									
1530 - 1700	CRIME SCENE Salon A Moderator: E. Toomer	CRIMINALISTICS I Salon B Moderator: R. Thompson	CRIMINALISTICS II	DEATH INVESTIGATION	DIGITAL EVIDENCE	HUMAN FACTORS	LAB MANAGEMENT Jackson/Harrison Moderator: J.P. Jones	LEGAL FACTORS	QUALITY ASSURANCE Salon C/D/E Moderator: W. Guthrie
1530	-PANEL- CRIME SCENE	Policy Decisions in Latent Print Examination Affect Specificity - Carey Hall					Calculating the True Costs of Errors in Forensic Casework - Elissa Mayo (30 min)		-PANEL- QUALITY ASSURANCE The Use of Statistical Methods for Error Management in the Forensic Sciences - Will Guthrie (moderator); Simone Gittelson for John Buckleton, Antonio Possolo, Steven Lund, Hari Iyer
1550	Organization of Scientific Area Committees (OSAC) Bloodstain Pattern Subcommittee Panel to Address Error Management in the Field of Bloodstain Pattern Analysis - Elizabeth Toomer (moderator); Kim Clements, LeeAnn Singley, Paul Kish, Chris Plourd, Itiel Dror, James Filliben	Changes in Latent Print Examinations as a Result of Technical Review - Marcus Montooth					4:00pm -- Efficiency Efforts: An Examiner-Friendly Approach to Improving Laboratory Operations - Henry Maynard		
1610		A Forensic Latent Fingerprint Image Quality Metric for Preprocessing Quality Assurance - Haiying Guan					4:20pm -- Students in the Forensic Laboratory: Fostering Education While Maintaining Quality - Christiane Baigent		
1630		Communicating Measurement Results in the Courtroom: A Matter of Error, Uncertainty and Inference - Ted Vosk					4:40pm -- Implementing the Duty to Correct Error in Forensics - Barry Scheck		
1700 CONCLUSION									

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Wednesday, July 22, 2015

CONCURRENT EVENTS

-Time-	-Event- -Location-
0730 - 1700	REGISTRATION North Tower - Crystal Ballroom Lobby
1000 - 1200 1300 - 1600	EXHIBITS North & South Tower - Public Space
0830 - 1700	POSTERS ON DISPLAY Washington Ballroom

GENERAL SESSIONS

-Time-	-Event- -Location-	-Presenter- -MODERATOR: MARK STOLOROW-	-Title-
0830 - 0900	SYMPOSIUM OPENING Crystall Ballroom Salon A/B	Mark Stolorow, NIST	House Keeping
0900 - 0945	PLENARY SPEAKER Crystall Ballroom Salon A/B	Scott Shappell, Chair, Department of Human Factors and Systems, Embry-Riddle Aeronautical University, USA	The Impact of Shiftwork and Fatigue on Performance
0945 - 1030	PLENARY SPEAKER Crystall Ballroom Salon A/B	Itiel Dror, Sr. Cognitive Neuroscience Researcher, University College London, UK	Cognitive Sources of Error and Ways to Minimize Them

MORNING BREAK

BREAKOUT SESSIONS

1100 - 1200	CRIME SCENE Salon A Moderator: M. Najarro	CRIMINALISTICS I Salon B Moderator: M. Coble	CRIMINALISTICS II Salon C/D/E Moderator: T. Roberts	DEATH INVESTIGATION Madison Moderator: M. Shilling	DIGITAL EVIDENCE Jackson/Harrison	HUMAN FACTORS Monroe Moderator: N. Paulter	LAB MANAGEMENT	LEGAL FACTORS	QUALITY ASSURANCE
1100	Forensic Science-the Quality Assurer? - Peter De Forest (30 min)	Arising Issues Implementing Advances in DNA Technology May Tarnish the Gold Standard - Amy Jeanguenat	New Psychoactive Substances (NPS): How to Keep up with the Never Ending Need for New Reference Materials? - Michael Collins			Cognitive Human Factors and the Use of Signature Features in Questioned/Known Signature Comparisons - Mara Merlino			
1120	11:30am -- Measurement Errors with Point Clouds - Gregory Walsh	NIST Concordance Evaluations to Assist in the Improvement of Commercial STR Multiplexes - Carolyn Steffen	Error Analysis of a Forensic Controlled Substance Case - Heather Harris	Forensic Pathology as a Forensic Science: History, Current Challenges, Improving Quality, and Understanding Cognitive Bias - Andrew Baker		Cognitive Human Factors and Call Accuracy in Limited-Information Signature Identification Tasks - Tierra Freeman			
1140		Application of a DNA Quantitation Standard for Human Identity Testing - Erica Romsos				Study on Methods of Quality Control and Evaluation of Fingerprint Identification - Shiquan Liu			

LUNCH (On Your Own)

BREAKOUT SESSIONS											
1330 - 1500	CRIME SCENE Salon A Moderator: B. Guttman	CRIMINALISTICS I Salon B Moderator: J. Butler	CRIMINALISTICS II Salon C/D/E Moderator: M. Taylor	DEATH INVESTIGATION Madison Moderator: M. Coble	DIGITAL EVIDENCE Jackson/Harrison Moderator: M. Herman	HUMAN FACTORS Monroe Moderator: M. Gische	LAB MANAGEMENT	LEGAL FACTORS	QUALITY ASSURANCE		
1330	Pre-flashover Fire Pattern Repeatability on Gypsum Wallboard - Daniel Madrzykowski	Effect of Drop-in on False Positive and Rank-Order Likelihood Ratios (LR) Calculated for a Mixture of Touch DNA - Clinton Hughes	Positive identification starting with a skull visualized by a 3D scanner using image superimposition and the 3D Max software. Cases developed from 2004 to 2014 in the Forensic Science and Legal Medicine Institute of the Public Prosecutor's Office - Danny Jesus Humpire Molina	Mitigating DNA Identification Errors in Mass Fatality Response Operations through Rapid DNA Technology - Christopher Miles	Error Management in Forensic Digital Imaging Should be a Resolution for Throughout the Entire Law Enforcement Community - David Witzke (30 min)	-PANEL- HUMAN FACTORS					
1350	Error Management in Fire and Explosion Investigations - Craig Beyler	Error Rates in Probabilistic Genotyping Software for DNA Mixtures in Human Identification - How to Compare? - Heather Miller Coyle	3D Fingerprint Targets - Nicholas Paulter	Descriptive Frequency Analysis of 110 Bodies found in Confined Water Spaces and Determination of the Manner of Death, Including Investigative Outcomes - Joanne Richardson	2:00pm -- Error Treatment in Forensic Authorship Attribution - Patrick Juola		Human Factors in Pattern Evidence: How the OSAC Physics/Pattern SAC Subcommittees are Considering Measures to Mitigate the Effects of Bias - Melissa Gische (moderator); Itiel Dror, Doug Murphy, Melissa Valadez, Henry Swofford				
1410	How Fire Investigation Organizations Get in Trouble with Preventable Errors - Chris Connealy & John Lentini	Objective DNA Mixture Information in the Courtroom: Relevance, Reliability and Acceptance - Mark Perlin	Error Propagation in Shape Analyses With or Without Landmarks - Scott Ferson	Searching for a Standard: The Impact that Method Selection has on Evidence Recovery in Forensic Archaeological Investigations - Laura Evis	2:20pm -- Speaker Detection in a Forensic Environment: Recognizing the Limitations, Improving the Science - Alvin Martin						
1430		Validating Software for Probabilistic Genotyping - Simone Gittelson for John Buckleton		Forensic Science Will Greatly Improve Digital Evidence Error Management by Utilizing DICOM and SNOMED CT Standards in Dental and Visible Light Images - Andrew Casertano	2:40pm -- An Overview of Speaker Variability as a Source of Error in Forensic Automatic Speaker Recognition - Finnian Kelly						
1500 - 1530	AFTERNOON BREAK										
BREAKOUT SESSIONS											
1530 - 1700	CRIME SCENE Salon A Moderator: L. Garcia	CRIMINALISTICS I Salon B Moderator: J. Butler	CRIMINALISTICS II Salon C/D/E Moderator: R. Bucht	DEATH INVESTIGATION Madison Moderator: E. Sisco	DIGITAL EVIDENCE Jackson/Harrison Moderator: P. Higgins	HUMAN FACTORS Monroe	LAB MANAGEMENT	LEGAL FACTORS	QUALITY ASSURANCE		
1530	-PANEL- CRIME SCENE	Interpretation Errors Detected in a NIST Interlaboratory Study on DNA Mixture Interpretation in the U.S. (MIX13) - Michael Coble	Strengthening Forensic Opinions through Objective Assessment of Evidentiary Value: A Prospective for Future Directions in Criminalistics - Michael Sigman	Medical Examiner Collection of Comprehensive, Objective Medical Evidence for Conducted Electrical Weapons and Their Temporal Relationship to Sudden Arrest - Michael Brave	-PANEL- DIGITAL EVIDENCE						
1550		A Large-scale Study of DNA Mixture Interpretation: Inter- and Intra-laboratory Variability - Roman Aranda IV	Mitigation of Fire Debris Compound Naming Error through Automation - Myron Sasser	Investigating Arrest-Related Deaths - Darrell Ross		Speech Chain Analysis for Speaker Recognition Systems and Likelihood Ratios to Express Score Probabilities Under Competing Hypotheses - Peter Higgins (moderator); James Wayman, Hirotaka Nakasone					
1610		Improving Fire Investigations through Science, Best Practices, and Transparency - Lynn Garcia (moderator); Chris Connealy, John DeHaan, Dan Heenan, David Moran, Nick Vilbas	Defining the Limits of Forensic DNA Profile Interpretation: An Assessment of the Information Content Inherent in Complex Mixtures - Keith Inman	Evaluation of the Degradation of Lotion Components Due to Age and Exposure - Jeffrey Dake			Confirmation Bias and Investigation of Arrest-related Deaths - Michael Brave for Steven Karch				
1630		Errors in Interpretation of DNA Profile Data - Charlotte Word	Using Statistical Analysis to Assist with Writer Identification - Michael Wakshull	Medical Examiner Mistakes in Tennessee: A Proposed Model for Formal, Comprehensive Death Investigation Peer Review - Amy Hawes							
1700	CONCLUSION										

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Thursday, July 23, 2015

CONCURRENT EVENTS

-Time-	-Event- -Location-
0730 - 1700	REGISTRATION North Tower - Crystal Ballroom Lobby
0830 - 1700	POSTERS ON DISPLAY Washington Ballroom
1000 - 1200	EXHIBITS North & South Tower - Public Space

GENERAL SESSIONS

-Time-	-Event- -Location-	-Presenter- -MODERATOR: MARK STOLOROW-	-Title-
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0900 - 0935	PLENARY SPEAKER Crystall Ballroom Salon A/B	Alastair Ross, Director, National Institute of Forensic Science, Australia-New Zealand Policing Advisory Agency (ANZPAA), Australia	The Source of Errors: Systems, Policy and Practice
0935 - 1010	PLENARY SPEAKER Crystall Ballroom Salon A/B	Bryan Found, Chief Forensic Scientist, Victoria Police Forensic Services Department, Australia	To Err Was Forbidden: The Changing Culture of Error Exploration in Forensic Pattern Evidence
1010 - 1045	PLENARY SPEAKER Crystall Ballroom Salon A/B	Ralph Kleuskens, Manager, Quality and Process Management, Netherlands Forensic Institute (NFI), The Netherlands	Forensic Science Quality Management

MORNING BREAK

BREAKOUT SESSIONS

1100 - 1200	CRIME SCENE	CRIMINALISTICS I Salon A Moderator: A. Nelson	CRIMINALISTICS II Salon B	DEATH INVESTIGATION	DIGITAL EVIDENCE Salon C/D/E	HUMAN FACTORS Monroe Moderator: J. Bitter	LAB MANAGEMENT	LEGAL FACTORS Madison Moderator: E. Sisco	QUALITY ASSURANCE Jackson/Harrison
1100		Crowd Powered Latent Fingerprint Identification: Fusing AFIS with Examiner Markups - Sunpreet Arora				Combating Confirmation Bias: Can Forensic Science Benefit from Importing Eyewitness Identification Procedures? - Jeff Kukucka		Forensic Scientific Error and Omission Within the Legal System - Forensic Science in the Court room: Can we communicate better? - Christopher Plourd	
1120		A Novel Approach for Quantifying the Weight of Fingerprint Evidence - Henry Swofford				The "Six Thinking Hats" Method of Removing Bias from Case Review - Peter DeForest for Robert Blackledge		Statistical Issues and Reliability of Eyewitness Identification as a Forensic Tool - Karen Kafadar	
1140						Mitigation of Forensic Error Rates in Evaluating Pattern-Based Handwriting Evidence Using a Lineup Process - Larry Miller		Language Barriers: Creating Standard Terminology to Mitigate Forensic Errors in the Courtroom - Jessica Gabel	

LUNCH (On Your Own)

BREAKOUT SESSIONS									
1330 - 1500	CRIME SCENE	CRIMINALISTICS I Salon A Moderator: L. Garcia	CRIMINALISTICS II Salon B Moderator: R. Bucht	DEATH INVESTIGATION	DIGITAL EVIDENCE Salon C/D/E Moderator: M. Herman	HUMAN FACTORS Monroe Moderator: C. Steffen	LAB MANAGEMENT	LEGAL FACTORS Madison Moderator: M. Coble	QUALITY ASSURANCE Jackson/Harrison Moderator: E. Romsos
1330		-PANEL- CRIMINALISTICS	Congruent Matching--Theory and Application in Forensic Evidence Identification and Error Rate Estimation - John Song		Improving Cyber Forensics and Cybersecurity through Block Chain Technology with Truth Based Systems - Ken Zatyko	Development of a Reasonable Minimum Documentation Standard in Latent Print Analysis and Comparison - Heidi Eldridge		The Use of Blinded Eyewitness Identification as a Forensic Procedure - Brandon Garrett	Forensic DNA: the Gold Standard or Fools Gold? - Karl Reich
1350		You Want Us to Do WHAT? Conducting a Retroactive Review of Hair Microscopy Cases as a Matter of Shared Ethical and Professional Duty - Lynn Garcia (moderator); Art Eisenberg, Mike Martinez, Skip Palenik, Jack Roady, Melissa Valadez, Nick Vilbas	Assessing Error Rates for Firearm Identification Based on the CMC Method - Daniel Ott		Measuring and Mitigating Errors in a 'Digital Forensics as a Service' Environment - Harm van Beek	A Typology of Underexploitation of Latent Print (Fingerprint) Evidence - Simon Cole		Uncertainty In Forensic Science: A Factor Deliberately Down-Played By Forensic Examiners - Clifford Spiegelman	The Value of Regular Benchmarking Studies in Forensic Science to Understand Where Errors Can Occur: Lessons Learned from NIST DNA - Interlaboratory Studies - John Butler
1410		An Analysis of Correlation Scores Between Cartridge Cases - James Yen	Measuring Systematic and Random Error in Digital Forensics - Alex Nelson		Objective Classification of Fingerprint Image Complexity - Henry Swofford	You're doing a great job, but you're doing it ALL WRONG! - Peter DeForest for Robert Blackledge		Automated DNA Examiner Assessment Tool (DEAT): A Software Program to be Utilized in DNA Benchmarking, Training, Proficiency, and Competency Testing - Roman Aranda IV	
1430		Measured Error Rates in Cartridge Case Comparisons - David Baldwin	A Logic Based Model for Error Management in Network Forensics Analysis - Anoop Singhal		Minimizing and Leveraging Bias in Forensic Science - Nathan Adams	Recognizing Sentinel Events in Forensic Science to Avoid Errors - Arthur Young		Quality Assurance and Quality Control in Breath Alcohol Measurement Programs Using Intoxilyzer 8000C - Sivarama Krishnan	
1500 - 1530 AFTERNOON BREAK									
BREAKOUT SESSIONS									
1530 - 1700	CRIME SCENE	CRIMINALISTICS I Salon A Moderator: E. Wooton	CRIMINALISTICS II Salon B Moderator: R. Thompson	DEATH INVESTIGATION	DIGITAL EVIDENCE Salon C/D/E Moderator: J. Darnell	HUMAN FACTORS Monroe Moderator: M. Taylor	LAB MANAGEMENT	LEGAL FACTORS Madison Moderator: J.P. Jones	QUALITY ASSURANCE Jackson/Harrison
1530		-PANEL- CRIMINALISTICS	Gunshot Distance Determinations, Crystal Ball Reading or Science? - Paul Paradis (30 min)		-PANEL- DIGITAL EVIDENCE	High Resolution Heat Imaging Technology - A New Approach in Fingerprint Search and Securing - Norman Kreuter		To Err is Human, but How Might We Measure Error Rates in Forensic DNA Testing and What Would These Error Rates Really Mean? - John Butler	
1550		Error Management and Forensic Document Examination - Elaine Wooton (moderator); Michelle Novotney	4:00pm -- Lead Density on a Target, A Significant Indicator of Firing Distance, but is it Reliable? - Elizabeth Gardner		Understanding the Relevance of Error Rates in a Digital World - James Darnell (moderator); Mary Horvath, Jim Lyle, Clay Schilling, Sam Brothers	Understanding and Detecting/Preventing/Mitigating Errors in Stair Fall-related Personal Injury Litigation Inspections and Other Legally Mandated Inspections - Jake Pauls		The Potential of Blind Collaborative Justice: Testing the Impact of Expert Blinding and Consensus Building on the Validity of Forensic Testimony - Carolyn Wong	
1610			4:20pm -- Quantitative Metrics for Identifying Characteristic GSR Particles - Nicholas Ritchie			Visual Comparison of Complex Sets of Quantifiable Forensic Data - David Sorensen (35 min)		Garbage In-Gospel Out?: Moving Forensic Fire Investigation Into The 21st Century - Vincent Brannigan	
1630			4:40pm -- Uncertainty Associated with the Elemental Analysis and Forensic Comparison of Materials using Laser Ablation Inductively Coupled Plasma Mass Spectrometry - Jose Almirall						
1700 CONCLUSION									

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Friday, July 24, 2015

CONCURRENT EVENTS

<i>-Time-</i>	<i>-Event- -Location-</i>
0730 - 1000	REGISTRATION North Tower - Crystal Ballroom Lobby

GENERAL SESSIONS

<i>-Time-</i>	<i>-Event- -Location-</i>	<i>-Presenter- -MODERATOR: MARK STOLOROW-</i>	<i>-Title-</i>
0830 - 0900	SYMPOSIUM OPENING Crystall Ballroom Salon A/B	Mark Stolorow, NIST	House Keeping
0900 - 0945	PLENARY SPEAKER Crystall Ballroom Salon A/B	William Thompson, Department of Criminology, Law & Society, University of California-Irvine, USA	What is the Proper Evidentiary Basis for a Forensic Science Opinion?
0945 - 1030	PLENARY SPEAKER Crystall Ballroom Salon A/B	Lynn Robitaille Garcia, General Counsel, Texas Forensic Science Commission, USA	The Importance of Trust and Collaboration in Tackling Forensic Problems: Lessons from the Lone Star State
1030 - 1100	MORNING BREAK		
1100 - 1200	Mock Court Crystall Ballroom Salon A/B	William Thompson, Department of Criminology, Law & Society, University of California-Irvine, USA and Jason Tully, Public Defender Service of DC, USA	Mock Court Presentation
1200 - 1230	SYMPOSIUM CLOSING		