

National Institute of Justice

Forensic Science Research and Development Symposium

American Academy of Forensic Sciences 69th 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.

Tuesday
February 14 — 8:30 a.m. – 5:10 p.m.

Program:

8:30 a.m. - 8:40 a.m. Welcome and Opening Remarks
Gerald LaPorte
Director, Office of Investigative and Forensic Sciences

Morning Session I – Impression, Pattern and Trace Evidence

Moderated by NIJ Physical Scientist Gregory Dutton

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, Georgia Tech – 2013-DN-BX-K003

9:05 a.m. - 9:30 a.m. Illuminating Lifestyles by Metabolomics of Personal Objects
Amina Bouslimani, University of California, San Diego – 2015-DN-BX-K047

9:30 a.m. - 9:55 a.m. Audio Forensics of Gunshot Sounds
Rob Maher, Montana State University – 2014-DN-BX-K034

9:55 a.m. - 10:20 a.m. Characterization of Organic Firearms Discharge Residue: Progress and Potential
Suzanne Bell, West Virginia University

Break

10:20 a.m. - 10:35 a.m.

Morning Session II – Forensic Biology/DNA

Moderated by NIJ Physical Scientist Minh Nguyen

10:35 a.m. - 11:00 a.m. Forensic DNA Phenotyping of Quantitative Pigment in Human Physical Appearance Prediction
Susan Walsh, Indiana University – 2014-DN-BX-K031

11:00 a.m. - 11:25 a.m. Proteomic Analysis of Menstrual Blood for Forensic Identification
Erin Butler, City of New York, Office of Chief Medical Examiner – 2010-DN-BX-K192

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, Virginia Commonwealth University - 2014-DN-BX-K013

11:50 a.m. - 12:15 p.m. The Enhancement of the Native American CODIS STR Database for use in Forensic Casework
Sree Kanthaswamy, UC Davis – 2014-DN-BX-K024

12:15 p.m. - 1:35 p.m. Lunch Break – On Your Own

Afternoon Session I – Anthropology and Microbial Forensics

Moderated by NIJ Physical Scientist Danielle McLeod-Henning

1:35 p.m. - 2:00 p.m. Measuring Desiccation: A System Using Bioelectrical Impedance Analysis
Christiane Baigent, Colorado Mesa University – 2014-DN-BX-K015

2:00 p.m. - 2:25 p.m. Statistical Methods for Combining Multivariate and Categorical Data in Postmortem Interval Estimation
Jeffrey Wells, Louisiana State University Health Sciences Center – 2013-DN-BX-K042

2:25 p.m. - 2:50 p.m. The Isotopic Taphonomy of Human Hair
Gwyneth Gordon, Arizona State University – 2014-DN-BX-K002

2:50 p.m. - 3:15 p.m. Adult Skeletal Age Estimation: Tackling Long-Standing Problems with a New Approach
Steve Ousley, Pennsylvania State University – 2014-DN-BX-K007

3:15 p.m. - 3:30 p.m. Break

Afternoon Session II – Controlled Substances and Toxicology

Moderated by NIJ Physical Scientist Frances Scott

3:30 p.m. - 3:55 p.m. Novel Blood Protein Modification Assay for Retrospective Detection of Drug Exposure
Anthony DeCaprio, Florida International University – 2015-NE-BX-K001

3:55 p.m. - 4:20 p.m. Stability of Synthetic Cathinones in Biological Evidence
Lindsay Glicksberg, Sam Houston State University – 2013-R2-CX-K006

4:20 p.m. - 4:45 p.m. Towards Development of a Mass Spectrometric Database for Rapid Identification of Plant Drugs of Abuse Using Ambient Ionization Mass Spectrometry
Rabi Musah, The SUNY, University at Albany – 2015-DN-BX-K057

4:45 p.m. - 5:10 p.m. One Pot Methamphetamine Effluent Characterization
Jarrad Wagner and David Pretorius, Oklahoma State University and Savannah River National Laboratory, DOE

Adjourn