

Firearms Admissibility Issues (Keynote)

Jim Agar, *Colonel, U.S. Army (Ret.)*

United States v. Refinal Miller: 0 to Daubert in 24 Hours

Arthur Andrade, *Miami-Dade Police Department*

An Empirical Study of the Glock Marking Barrel (GMB)

Edward Burek, *New Jersey State Police*

Stephen M. Deady, *Delaware State Police*

Case Study: Rubber Buckshot Tissue Penetration Ability

Dijana Coric, *Washington State Patrol Crime Laboratory*

Affect of Manufacturer Finishing Methods on Subclass Characteristics Production on Breech Faces

Veronica Franklin, *West Virginia University*

80% Firearms Kits

Kirk Garrison, *San Bernadino County Sheriff's Department*

The Capital Gazette Newsroom Shooting

Edward Gesser, *Anne Arundel County Firearms Examination Unit*

Two Wildlife Case Examples

Deborah Gillis, *Alaska Scientific Crime Detection Laboratory*

Lead Isotope & Elemental Analysis to Associate Evidence Lifts, Bullet Fragments, and Bullets using MC-IP-MS and Q-ICP-MS

Dr. Gwyneth Gordon, *Arizona State University*

Forensic Firearms ID Applied to Battlefield Archeology

Lucian Haag, *Forensic Science Services, Inc.*

Two Wildlife Case Examples

Deborah Gillis, *Alaska Scientific Crime Detection Laboratory*

AFTE Scholarship & Evaluation of Glock Aperture Shear Mark Individuality Based on 1,632 Different Pistols by Traditional Pattern Matching and IBIS Pattern Recognition

Jim Hamby, *Indiana State Police (Ret.)*

Pressure Factors in Cartridge Case Comparisons

James A. Hamilton, *West Virginia University*

2021- 2022 In Memoriam

AFTE Sickness & Distress Committee

Assessing the Thermal Stability of Toolmarks Casting Materials Through Optical Comparison Microscopy, Virtual Comparison Microscopy, and Quantitative Similarity Scores

Kai Yuan Yeoh, *Health Sciences Authority, Singapore*

Evaluation of Muzzle-to-Target Distance Estimation by Machine Learning

Mike Kulsluski, *Pennsylvania State University*

The Effects of Car Tires on Bullet Performance and the Potential Danger to Bystanders

Xiao Shan Law, *New York State Police Forensic Investigation Center*

Case Study of a High-Profile Death Investigation

Michael Lee, *Michigan State Police*

Firing Pin Imaging and Analysis in VCM

Zachary Carr, *Total Quality Forensics*

Ryan Lilien, *Cadre Forensics*

Results of the 3D Virtual Isolated Pairs (VIP) Study

Zachary Carr, *Total Quality Forensics*

Ryan Lilien, *Cadre Forensics*

The Impossible Shot: Reconstruction of Fatal Hunting Accident

Axel Manthei, *Bayerisches Landeskriminalamt*

Preliminary Results from a Blind Testing Program in Firearms Examination

Maddisen Neuman, *Houston Forensic Science Center*

Identification of Toolmarks Present on Additive Manufactured Components

Corey Scott, *Federal Bureau of Investigation Laboratory Division*

NIBIN/CGIC Program at the SFPD Crime Laboratory

Andy Smith, *San Francisco Police Department*

3D Technology Working Group Update

Erich Smith, *Federal Bureau of Investigation Laboratory Division*

OSAC Update

Andy Smith, *San Francisco Police Department*

Erica Lawton, *Alabama Department of Forensic Sciences*

FBI Laboratory Response to the Declaration Regarding Firearms and Toolmark Error Rates Field in *Illinois v. Winfield*

Erich Smith, *Federal Bureau of Investigation Laboratory Division*

Michael Smith, *Federal Bureau of Investigation Laboratory Division*

Virtual Image Standard (VIS) for Performance Evaluation of the Congruent Matching Cell (CMC)
Algorithms in Firearm Evidence Identification

John Song, *National Institute of Standards and Technology (NIST)*

Shooting Incidents in the Film & TV Industry: The Firearm Examiners Role and Analysis of Such Evidence

Pete Striupaitis, *Independent Forensic Consultant*

Unpublished Research Subcommittee Update

Eric Warren, *SEP Forensic Consultants*

The Relevance of Current Forensic Firearm Examination Techniques when Applied to 3D Printed Firearms

Zara Ellen Wenzinger, *Duquesne University*

Virtual Peer Review: The Realities of Remote Verification

R.T. Wyant, *Washington State Patrol Crime Laboratory*

Brian Smelser, *Washington State Patrol Crime Laboratory*

Keep AFTE Weird, AFTE 2023, Austin, TX

Kim Zeller, *Houston Forensic Science Center*

Stephen Aston, *Austin Police Department*

Interlaboratory Comparison for 3D Analysis of Bullet Land Engraved Areas (LEA)

Martin Baiker-Sorensen, *Netherlands Forensic Institute*

Xiaoyu Alen Zheng, *National Institute of Standards and Technology (NIST)*

Population Statistics for Firearm and Toolmark Identification

Martin Baiker-Sorensen, *Netherlands Forensic Institute*

Johannes Soons, *National Institute of Standards and Technology (NIST)*

Xiaoyu Alen Zheng, *National Institute of Standards and Technology (NIST)*

Erich Smith, *Federal Bureau of Forensic Science*