

January 11–14, 2022

2022 Firearm and Toolmarks Policy and Practice Forum



NIJ | *National Institute
of Justice*

STRENGTHEN SCIENCE. ADVANCE JUSTICE.



Forensic Technology
CENTER OF EXCELLENCE
A program of the National Institute of Justice

AGENDA

Tuesday, January 11: 1:00 p.m.–4:40 p.m. Eastern Time (ET)

RESEARCH

1:00–1:50

Welcome

Lucas Zarwell, National Institute of Justice

Opening Remarks

John Grassel, RTI International

Keynote—A Review of the Scientific Foundations of Firearm Examination and Related Research

Theodore Vorburger, National Institute of Standards and Technology

1:50–2:05

Q&A

John Grassel

2:05–2:35

Support for Firearms and Toolmarks R&D at the National Institute of Justice

Gregory Dutton, National Institute of Justice

2:35–2:45

BREAK

RESEARCH

2:45–4:05

Research Panel

Moderated by Robert M. Thompson, National Institute of Standards and Technology

3D Microscopes and Their Application to Firearm and Toolmark Examination

Thomas Brian Renegar, National Institute of Standards and Technology

Virtual Comparison and Software Technology

Todd J. Weller, Weller Forensics LLC

Computer-Aided Firearm and Toolmark Analysis

Johannes Soons, National Institute of Standards and Technology

4:05–4:35

Q&A Panel Discussion

Robert M. Thompson

4:35–4:40

Adjourn

John Grassel

Wednesday, January 12: 1:00 p.m.–4:45 p.m. ET

EMERGING TECHNOLOGIES

1:00–1:50

Opening Remarks

John Grassel, RTI International

Keynote—Emerging 3D Technologies in Firearm and Toolmark Examination

Ryan Lilien, Cadre Forensics

1:50–2:05

Q&A

John Grassel

2:05–2:25

2022 Forensic Technology Center of Excellence (FTCoE) Update

Jeri D. Ropero-Miller, RTI International

2:25–2:35

BREAK

2:35–4:10

Emerging Technologies Panel

Moderated by Heather Seubert, FBI Laboratory

Ballistics IQ from a Law Enforcement Perspective

Lacey Oden, Escambia County Sheriff's Office

Ballistics IQ for the Crime Laboratory

Deion P. Christophe, Plano Police Department

Evofinder®: From Validation to Implementation

Michael Beddow, Phoenix Police Department Crime Laboratory

Reference Population Database of Firearm Toolmarks (RPDFT)

Xiaoyu Alan Zheng, National Institute of Standards and Technology

Cadre Verification and Use in Casework

Sabrina S. Cillessen, Virginia Department of Forensic Science

EMERGING TECHNOLOGIES

4:10–4:40

Q&A Panel Discussion

Heather Seubert

4:40–4:45

Adjourn

John Grassel

Thursday, January 13: 1:00 p.m.—4:40 p.m. ET

INTELLIGENCE

1:00–1:50

Opening Remarks

John Grassel, RTI International

Keynote—The Crime Gun Intelligence Revolution

Thomas Chittum, Bureau of Alcohol, Tobacco, Firearms and Explosives

1:50–2:05

Q&A

John Grassel

2:05–2:35

**National Institute of Justice's Forensic Intelligence (FOR-INT) Initiative:
Using Forensics for Crime Disruption and Prevention**

Jonathan McGrath and Basia E. Lopez, National Institute of Justice

2:35–2:45

BREAK

2:45–4:05

Intelligence Panel

Moderated by Stephanie Stoiloff, Miami-Dade Police Department Forensic Services Bureau

Forensic Intelligence: Incorporating Forensic Data Sets in Criminal Investigations

Yaneisy Delgado, Miami-Dade Police Department Forensic Services Bureau

Milwaukee Police Department—NIBIN Overview

Branko Stojavljević and Ryan Orlovsky, Milwaukee Police Department

Technical Intelligence: An Operational Tool

Tara Garvey, Philadelphia Police Department Intelligence Bureau

Mike Garvey, Philadelphia Police Department Office of Forensic Science

Evidence Screening in Support of NIBIN

Jessica Ellefritz, Phoenix Police Department

INTELLIGENCE

4:05–4:35

Q&A Panel Discussion

Stephanie Stoiloff

4:35–4:40

Adjourn

John Grassel

Friday, January 14: 1:00 p.m.–4:40 p.m. ET

LEGAL ASPECTS

1:00–1:50	Opening Remarks John Grassel, RTI International Keynote—The Accuracy, Repeatability, and Reproducibility of Firearms/Toolmarks Comparisons Erich Smith, FBI Laboratory
1:50–2:05	Q&A John Grassel
2:05–2:15	BREAK
2:15–3:05	Legal Aspects Panel Moderated by Raymond Valerio, Queens District Attorney's Office Five Years Later: An Overview of Firearms and Toolmarks Admissibility Decisions After the PCAST Report Amie Ely, National Association of Attorneys General Firearms & Toolmark Evidence Admissibility & Current Challenges Raymond Valerio
3:05–3:35	Q&A Panel Discussion Raymond Valerio
3:35–3:45	BREAK

LEGAL ASPECTS

3:45–4:30	Chairs Panel—Future/Next Steps Moderated by John Grassel Research Panel: Robert M. Thompson, National Institute of Standards and Technology Emerging Technologies Panel: Heather Seubert, FBI Laboratory Intelligence Panel: Stephanie Stoiloff, Miami-Dade Police Department Forensic Services Bureau Legal Aspects Panel: Raymond Valerio
4:30–4:35	Closing Remarks Lucas Zarwell, National Institute of Justice
4:35–4:40	Adjourn John Grassel