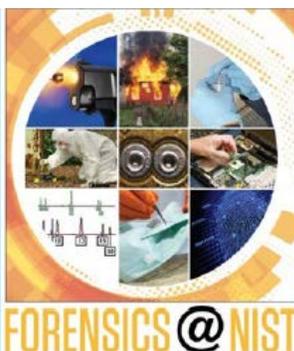


# Trace Evidence Data Workshop

Improving Technology and Measurement in Forensic Science

<http://www.nist.gov/forensics/trace-evidence-data-workshop.cfm>



**Date:**  
July 19-20, 2016 @ 8:30am

**Location:**  
National Institute of Standards and Technology  
100 Bureau Drive, Gaithersburg, MD 20889  
Building 101, Heritage Room

## DAY 1 – Tuesday, July 19<sup>th</sup>

8:00 – 9:00 am	<ul style="list-style-type: none"> <li>• <b>Registration</b></li> </ul>	
8:30 – 8:45 am	<ul style="list-style-type: none"> <li>• <b>Opening Remarks</b></li> <li>• <b>Welcome</b></li> <li>• <b>Agenda Overview</b></li> </ul>	
PLENARY		
8:45 – 10:00 am	<ul style="list-style-type: none"> <li>• <b>The Role of Reference Collections In Trace Evidence</b> Chris Palenik, MicroTrace</li> <li>• <b>What Does the Future Hold for Trace Evidence Analysis</b> Claude Roux, University of Technology Sydney</li> </ul>	MODERATOR: Eric Steel, MML, NIST
10:00 – 10:15 am	<b>BREAK</b>	
PLENARY		
10:15 – 11:30 am	<ul style="list-style-type: none"> <li>• <b>Research Needs in Trace Evidence Analysis: How Can Better Data Help?</b> Gerry LaPorte, National Institute of Justice (NIJ)</li> <li>• <b>FBI's Role in Trace Evidence Reference Collection</b> Cary Oien, Federal Bureau of Investigation (FBI)</li> <li>• <b>Analyst and Management Survey Results about Trace Evidence</b> Sandy Koch, Pennsylvania State University (PSU)</li> </ul>	MODERATOR: Eric Steel, MML, NIST
11:30 – 12:30 pm	<b>LUNCH</b> – <i>On your own, NIST Cafeteria</i>	
MAJOR NIST EFFORTS TO IMPROVE DATA ACCESS		
12:30-2:15 pm	<ul style="list-style-type: none"> <li>• <b>NIST Wide Initiatives in Improving Data Access</b> Chandler Becker, Office of Data Informatics, NIST</li> <li>• <b>NIST FSRP Data Initiatives: Biometrics Catalog and Reference Data Inventory</b> Shannan Williams, Special Programs Office, Forensic Science Research Program, NIST</li> <li>• <b>NIST Mass Spectral Database</b> William Wallace, Chemical Informatics Research Division, NIST</li> <li>• <b>NIST Ballistics and Toolmarks Database</b> Alan Zheng, Engineering Physics Division, NIST</li> <li>• <b>Statistical Considerations in the Development of Trace Evidence Databases</b> Steve Lund, Statistical Engineering Division, NIST</li> </ul>	MODERATOR: Chandler Becker, Office of Data Informatics, NIST
2:15 – 2:30 pm	<b>BREAK</b>	
FIBER/HAIR		
2:30 – 3:50 pm	<ul style="list-style-type: none"> <li>• <b>Challenges and Opportunities in Database Design and Inter-laboratory Studies on Trace Evidence Fibers</b> Steve Morgan, University of South Carolina</li> <li>• <b>Historical Review of Hair Analysis and Current Research Collections</b> Sandy Koch, PSU</li> </ul>	

- **Smithsonian Animal Hair Reference Collections For Forensic Applications**

Suzanne Peurachs, Smithsonian\*

*Future Needs Discussion (30 minute Q&A w/ Panelists)*

MODERATOR: Amanda Forster, MML, NIST

3:50 – 4:00 pm	<b>BREAK</b>
PRIVATE SECTOR DATABASES AND PERSPECTIVES	
4:00 – 5:15 pm	<ul style="list-style-type: none"> <li>• <b>Valspar Paint Databases for Forensic Application</b> Richard Simon, Valspar</li> <li>• <b>Ford Automotive Coatings Data for Forensic Application</b> Mark Nichols, Ford</li> <li>• <b>ThermoFisher Databases for Forensics</b> Mike Panella, ThermoFisher</li> </ul> <p><i>Q&amp;A (15 minutes)</i></p>
MODERATOR: Stephanie Watson, EL, NIST	

## Day 2 – Wednesday, July 20, 2016

8:00 – 8:30 am	<b>Registration</b>
8:30 – 8:40 am	<ul style="list-style-type: none"> <li>• <b>Opening Remarks</b></li> <li>• <b>Agenda Overview</b></li> </ul>
GLASS/PAINT/TAPE	
8:40 – 10:00 am	<ul style="list-style-type: none"> <li>• <b>The State of Data in Glass Analysis</b> Jose Almirall, Florida International University (FIU)</li> <li>• <b>EU Tape, Paint, Glass Data Sets</b> Stefan Becker, Bundeskriminalamt (BKA)</li> <li>• <b>International Forensic Automotive Paint Data Query</b> Tamara Hodgins, Royal Canadian Mounted Police (RCMP)</li> <li>• <b>FBI National Automotive Paint File and National Forensic Tape File</b> Diana Wright, FBI</li> </ul>
10:00 – 10:15 am	<b>BREAK</b>
GLASS/PAINT/TAPE	
10:15 – 11:30 am	<ul style="list-style-type: none"> <li>• <b>Application of Spectrochemical Profiles for the Forensic Characterization of Electrical Tapes</b> Tatiana Trejos, FIU</li> <li>• <b>Access Glass/Paint/Tape Data from and Local Perspective</b> Chip Pollock, Sacramento District Attorney's Office</li> </ul> <p><i>Future Needs Discussion (30 minute Q&amp;A w/ Panelists)</i></p>
MODERATOR: Stephanie Watson, EL, NIST	
11:30 – 12:30 pm	<b>LUNCH</b>
EXPLOSIVES & IGNITABLE LIQUIDS	
12:30 – 2:20 pm	<ul style="list-style-type: none"> <li>• <b>The State of Data in Explosives and Ignitable Liquids</b> Michael Sigman, National Center for Forensic Science , University of Central Florida</li> <li>• <b>University of Rhode Island Ignitable Liquids and Explosives Databases</b> Jimmie Oxley, University of Road Island</li> <li>• <b>Explosives and Ignitable Liquids Databases from a Fire Research Perspective</b> Anthony Putorti, Fire Research Division, NIST*</li> </ul> <p><i>Future Needs Discussion (30 minute Q&amp;A w/ Panelists)</i></p>
MODERATOR: Marcela Najarro-Brown, MML, NIST	
2:20 – 2:30 pm	<b>BREAK</b>
TRACE DRUGS, MINERALS, BIOLOGICALS, and other MISC PARTICLES	
2:30 – 4:00 pm	<ul style="list-style-type: none"> <li>• <b>The State of Data - Beyond Hair, Fibers, Paint, and Glass</b> Skip Palenik, MicroTrace</li> <li>• <b>Non-Forensic Databases for Interpretation of Forensic Soils</b></li> </ul>

\*Invited, Not Confirmed

Libby Stern, FBI

- **Biologicals Databases and other Trace Particles**  
Andy Bowen, US Postal Service
- **Database Development and Product Variability in Lubricant Materials**  
Jeffrey Dake, Defense Forensic Science Center

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4:00 – 4:10 pm

**BREAK**

TRACE DRUGS, MINERALS, BIOLOGICALS, and other MISC PARTICLES

4:10 – 5:20 pm

- **McCrone Institute Compendium of Microcrystal Tests**  
Sebastian Sparenga, McCrone Research Institute
- **Comprehensive Analytical Tools for the Identification of Emerging Drugs of Abuse**  
Luis Arroyo, FIU  
*Future Needs Discussion (30 minute Q&A w/ Panelists)*

MODERATOR: Ed Sisco, MML, NIST

WRAP UP

5:20 – 5:45 pm

- Summary/Next Steps
  - Discussion
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