NIST
National Institute of Standards and Technology
U.S. Department of Commerce

FORENSICS @ NIST | #NISTForensics

Trace Evidence

NIST Trace Evidence Research Areas

- Qualitative identification
- Quantitative analysis
- Measurement-based comparisons
  - Physical and Chemical Properties
  - Covering:
    - Fire Debris; Paint; Glass; Fiber; Hair…
    - Particle Populations (GSR, Soil, Dust, Opioids…)
- Measurement reference materials and databases

NIST Trace Evidence Presentations

- 9:45 – 10:30 A Framework for Optimizing Gas Chromatography Mass Spectrometry (GC/MS) Methods for Analysis of Ignitable Liquid Residues: Edward Sisco; Dennis Leber; Charles Hagwood
- 10:30 – 10:45 BREAK
- 10:45 – 11:00 Portable Headspace Sampling for Field Applications in Forensic Science: Megan Harries
- 11:00 – 11:15 Human Hair Keratin Extraction and Genetically Variant Peptide Detection: Meghan C. Burke
- 11:15 – 11:35 Likelihood Ratio as Weight of Forensic Evidence: A Closer Look: Steven Lund
- 11:35 – 11:45 Q&A SESSION