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