

Symposium Hours, Posters, and Exhibitor Directory



FORENSICS @ NIST

November 28-30, 2012 • #NISTForensics

Detailed Session Agenda Provided Separately

Welcome to Forensics@NIST 2012

This three-day symposium will showcase cutting edge forensic science research being performed at NIST. Attendees will learn how NIST's world-class laboratories and staff support many forensic science disciplines. See how material scientists, metrologists, analytical chemists, biological scientists, computer scientists, and forensic science practitioners work together to address the challenges facing the forensic science community and where NIST is going next.

- November 28, 2012: Forensic Biology/DNA, Firearms/Toolmark Analysis, and Fire Research
- November 29, 2012: Trace Analysis/Collection
- November 30, 2012: Computer Forensics, Fingerprints & Biometrics, and Multimedia Forensics

A message from Willie E. May, Ph.D., Associate Director for Laboratory Programs



Welcome to Forensics@NIST 2012. As you are no doubt aware, the National Academy of Sciences (NAS) released a study in 2009 that was quite critical of the state of forensic science and its impact on the criminal justice system. NIST was directly cited in the NAS report as an agency that should play a key role in addressing the Nation's forensic science challenges. We hope that this symposium provides attendees with a glimpse of the breadth of research and measurement service activities that are ongoing at NIST to provide additional credibility to the field and help to promote the transformation of forensic science from an experience-expert-based practice to a more quantitative science.

- Willie E. May



Forensics@NIST 2012

Symposium Hours

(Detailed session agenda provided separately.)

Day One - Wednesday, November 28, 2012

Forensic Biology/DNA, Firearms Analysis, and Fire Research

Exhibits	8:30 - 5:00
Deployable Forensics Lab (outside)	8:30 - 5:00
Posters	8:30 - 5:00

Day Two - Thursday, November 29, 2012

Trace Analysis/Collection

Exhibits	8:30 - 5:00
Hands-on Biological Threat, Response and Sample Collection Demonstration	12:50 - 2:20
Deployable Forensics Lab (outside)	8:30 - 5:00
Mobile Decontamination Lab (outside)	9:00 - 5:00
Posters	8:30 - 5:00

Day Three - Friday, November 30, 2012

Computer & Multimedia Forensics and Fingerprints & Biometrics

Exhibits	8:30 - 4:00
Deployable Forensics Lab (outside)	8:30 - 1:30
Posters	8:30 - 4:00

November 28-30, 2012

Forensic Biology/DNA, Firearms Analysis, and Fire Research Posters - Lecture Room B

Posters listed as submitted. Authors present on November 28.

DNA

1. DNA Sequencing Error Estimation and SNP Validation for Microbial Forensics Applications
2. Characteristics of 24 Commonly Used Autosomal STR Loci
3. Population Statistics on the Proposed Expanded U.S. Core Loci
4. Concordance Testing Comparing STR Multiplex Kits with a Standard Data Set
5. SE33 Variant Alleles: Sequences and Implications
6. Evaluation of Additional Y-STR Loci to Resolve Common Haplotypes
7. An Evaluation of Additional Y-STR Loci in the PowerPlex Y-23 Kit
8. Direct PCR Amplification of STR Loci: Protocols and Performance
9. Rapid Amplification of Commercial STR Typing Kits
10. Validation of PowerPlex 16 HS in Comparison to Identifiler Plus on the ABI 3500 Genetic Analyzer
11. Setting Interpretation Thresholds and Results with Low-Level DNA Analysis

12. The New SRM 2391c: PCR-based DNA Profiling Standard
13. Using SRM 2372 Human Quantitation Standard: Are There Differences Between qPCR Assays?
14. Forensic Performance of Insertion-Deletion Marker Systems
15. Candidate Reference Family Data: A Tool for Validating Kinship Analysis Software
16. Rapid DNA Testing Approaches for Reference Samples

Firearms

1. Mathematical Comparisons of Bullets and Cartridge Casings Using 2D and 3D Topography, A. Zheng, R. Thompson, W. Chu, J. Song, J. Yen, B. Renegar and R. Silver
2. The National Ballistics Imaging Comparison, R. Thompson, S. Ballou, T. Vorburger, J. Song, J. Yen, A. Zheng, B. Renegar, R. Silver – NIST; M. Ols – ATF

Fire Research

1. Analysis of a Fatal Wind-Driven Fire in a Single-Story House, Adam Barowy and Daniel Madrzykowski
2. Fire Pattern Repeatability, Daniel Madrzykowski and Charles Fleischmann

November 28-30, 2012

Trace Analysis/Collection Posters - Lecture Room A

Posters listed as submitted. Authors present on November 29.

1. Ethanol in Water Standard Reference Materials to Support Forensic Testing, Michele M. Schantz, Analytical Chemistry Division, NIST
2. Towards Improvement of Trace Detector Screening for the Analysis of Illicit Drugs, L.T. Demoranville, J.R. Verkouteren, G. Gillen, NIST
3. Nano Particle Generation from Heated Explosives, Robert Fletcher, Marcela Najarro, Tim Brewer, Matthew Staymates and Greg Gillen, NIST
4. Techniques for the Production of Standard Explosive Test Particles, Matthew Staymates, Michael Verkouteren, Jessica Staymates, Robert Fletcher, Tim M. Brewer, and Greg Gillen, NIST
5. Analysis of Trace Quantities of Explosive Materials Using Laser Diode Thermal Desorption- Atmospheric Pressure Chemical Ionization- Tandem Mass Spectrometry, Eric Windsor, NIST
6. Forensic Applications of DART MS, Ed Sisco, USACIL/NIST
7. Electrostatic Effects in Swipe Sampling, R. Fletcher, NIST
8. Age Dating of Fingerprints, Ed Sisco, NIST
9. Forensic Analysis Methodology and Database of Statistically Combined HME Thermal, Mass, and Spectral Signatures, Ashot Nazarian
10. Surrogate Controls for Confidence in Field Measurements, Vang

11. HPLC for Quant of Explosives and Narcotics Standards, Tim Brewer
12. SRMS for Trace Explosives, Bill MacCrehan
13. Inkjet Printing for Trace Detection Standards, Greg Gillen
14. Micro CT Scanning of Explosives, Greg Gillen
15. Confocal Raman of Single Particles, Chris Michaels
16. Fundamental Measurements for Trace Detection of Energetic Materials and Fire Debris, Tara M. Lovestead, Jason A. Widegren, Samuel Allen, and Thomas J. Bruno
17. Reproducible Dynamic Vapor-Time Profiles of Explosives and Non-explosive Canine Training Aids, Bill MacCrehan, Michele Schantz, Stephanie Moore; Chemical Sciences Division, MML
18. Optimization of Negative Chemical Ionization Mass Spectrometry for Explosives for Two Gas Chromatographic/Mass Spectrometric Instruments from Different Manufacturers, Bruce A. Benner, Jr. and Marcela Najarro, NIST
4. Instance Search, Copy Detection, and Semantic Indexing at TRECVID
5. Developing a Forensics Image Examination Rating Scale
6. Evaluation of Latent Fingerprint Technologies (ELFT)
7. Evaluation of Fusion Methods for Latent Fingerprint Matchers
8. Biometrics Research Lab to Support Standards Development and Measurement Science
9. Biometric Sample Quality – The Push Towards Zero Error Biometrics
10. ITL – Standards Development Organization (SDO) of ANSI/NIST-ITL Biometric Interchange Standard – 25 Years of Building Community Consensus with Global Impact
11. Using Challenge Problems to Advance Face and Iris Recognition
12. Assessing Uncertainty in Measurement
13. 3D Shape Analysis, Retrieval and Metrology

November 28-30, 2012

Computer & Multimedia Forensics and Fingerprints & Biometrics Posters - Lecture Room D

Posters listed as submitted. Authors present on November 30.

1. Computer Forensics (includes NSRL and CFTT)
2. Human Assisted Speaker Recognition
3. Using Attack Graph and Evidence Graph in Computer Forensics Examinations

POCs, Addresses, Phone, Email and Web
Exhibitors Directory

Exhibitor	Booth #	Days in Attendance
A2LA-American Association for Laboratory Accreditation	101	Nov 28-30 th
Secure Outcomes, Inc	102	Nov 28-30 th
CAO Group	103	Nov 28-30 th
ANSI-ASQ/FQS National Accreditation Board	104	Nov 28-30 th
RTI International	105	Nov 28-30 th
Foster & Freeman USA Inc	106	Nov 28-30 th
Nebraska Wesleyan University	107	Nov 28-30 th
The Bode Technology Group, Inc	108	Nov 28-30 th
Leica Microsystems, Inc	109	Nov 28-30 th
The George Washington University	110	Nov 28-30 th
Sirchie	111	Nov 28-30 th
ASCLD/LAB	112	Nov 28-30 th
Leeds Forensic Systems	113	Nov 28-30 th
Agilent Technologies	114	Nov 28-30 th
BAE Systems	115	Nov 28 th
Bruker Optics	115	Nov 29 th
Cybergenetics	116	Nov 28 th
Sarstedt, Inc	117	Nov 28 th
IFI	120	TBD
RJ Lee Group	121	TBD
Foray Technologies	122	TBD
IntergenX, Inc	123	Nov 28 th
Animetrics	124	Nov 30 th
SoftGenetics	125	Nov 28 th
Evident	125	Nov 30 th
Biothreat Collection Demonstration	126	Nov 29 th
Stevenson University	126	Nov 30 th
Biothreat Collection Demonstration	127	Nov 29 th

A2LA-American Association for Laboratory Accreditation
5301 Buckeystown Pike, Suite 350
Frederick, MD 21704
POC: Ms. Gina McInturff, Marketing/Design Specialist
Phone: 301.644.3248
Email: gmcinturff@A2LA.org
www.A2LA.org

Agilent Technologies
2850 Centerville Road
Wilmington, DE 19808
POC: Ms Lauren Johnson, Campaign Logistics Coordinator
Phone: 302.636.1619
Email: lauren_johnson@agilent.com
www.agilent.com

Animetrics
53 Technology Lane, Suite 103
Conway, NH 03818
POC: Kelli MacDonald, Executive Assistant
Phone: 603.447.5600
Email: kelli@animetrics.com
www.animetrics.com

ANSI-ASQ/FQS National Accreditation Board
500 Montgomery Street
Alexandria, VA 22314
POC: Mr. Ben Perillo, Executive Director-Brand Program Director
Phone: 561.376.5391
Email: perilloconsult@aol.com
www.fqsforensics.org

ASCLD/LAB
139 Technology Drive, Suite J
Garner, NC 27529
POC: Ms. Laurel Farrell, Trainer
Phone: 303.517.2761
Email: lfarrell@ascl-d-lab.org
www.ascl-d-lab.org

BAE Systems
16541 Commerce Drive
King George, VA 22485
POC: Ms. Kelsy Stadskev, Staffing Coordinator
Phone: 540.663.9841
Email: kelsy.stadskev@baesystems.com
www.baesystems.jobs

The Bode Technology Group, Inc.
10430 Furnace Road, Suite 107
Lorton, VA 22079
POC: Ms. Kimberly Battaile, Marketing Assistant
Phone: 703.646.9740
Email: Kimberly.battaile@bodetech.com
www.bodetech.com

Bruker Optics
19 Fortune Drive
Billerica, MA 01821
www.bruker.com

CAO Group
4628 W. Skyhawk Drive
West Jordan, UT 84084
POC: Mr. David Hall, Director Forensic Business Unit
Phone: 801.495.5540
Email: david.hall@caogroup.com
www.ultralite-als.com

Cybergenetics
160 North Craig Street, Suite 210
Pittsburgh, PA 15213
POC: Ms. Donna Scheuble, Office Administrator
Phone: 412.487.3826
Email: donna@cybgen.com
www.cybgen.com

Evident
739 Brooks Mill Road
Union Hall, VA 24176
POC: Mr. Mike Grimm Jr., President
Phone: 800.576.7606
Email: contact@evident.cc
www.EvidentCrimeScene.com

Foray Technologies
3911 5th Avenue, Suite 300
San Diego, CA 92103
Phone: 619.858.1360
www.foray.com

Foster & Freeman USA Inc.
46030 Manekin Plaza, Suite 170
Sterling, VA 20166
POC: Ms. Amy Temenak, Office Manager
Phone: 888.445.5048
Email: amy.temenak@fosterfreeman.com
www.fosterfreeman.com

The George Washington University
2100 Fox Hall Road
Washington, DC 20007
POC: Mr. Victor W. Weedn, MD, JD, Professor and Chair
Phone: 202.242.5758/412.600.4211
Email: vweedn@gwu.edu / pjboland@gwu.edu
<http://departments.columbian.gwu.edu/forensicsciences/>

IFI
500 Waters Edge, Suite 210
Lombard, IL 60148
Phone: 866.434.2400
www.ifi-test.com

IntegenX, Inc.
5720 Stoneridge Drive, Suite 300
Pleasanton, CA 94588
POC: Ms. Jill Gubner, Customer Service Representative/Exhibitor Management
Phone: 925.701.3416
Email: jillg@integenx.com
www.integenx.com

Leeds Forensic Systems
17300 Medina Road, Suite 600
Minneapolis, MN 55447
POC: Ms. Margaret Berdelman, Director of Marketing
Phone: 763.398.7124
Email: mberdelman@leedsmicro.com
www.leedsforensics.com

Leica Microsystems, Inc.
1700 Leider Lane
Buffalo Grove, IL 60089
POC: Gretchen Falter
Phone: 703.779.4898
Email: gretchen.falter@leica-microsystems.com
www.leica-microsystems.com

RJ Lee Group, Inc
350 Hochberg Road
Monroeville, PA 15146
Phone: 724.733.1799
www.rjlg.com

Nebraska Wesleyan University
5000 Saint Paul Avenue
Lincoln, NE 68504
POC: Ms. Denice Archer, Recruiting and Corporate Relations, Forensic Science
Phone: 402.465.7539
Email: darcher@nebrwesleyan.edu
www.nebrwesleyan.edu

RTI International
3040 Cornwallis Road
Research Triangle Park, NC 27709
POC: Ms. Erica Harbison, Project Coordinator
Phone: 919.541.6012
Email: eharbison@rti.org
www.forensicCOE.org

Sarstedt, Inc.
1025 Saint James Church Road, PO Box 468
Newton, NC 28658
POC: Ms. Carole Creson, Advertising Manger
Ms. Pam Powell, Marketing Manager
Phone: 1.825.465.4000
Email: marketing@sarstedt.us
www.sarstedt.com

Secure Outcomes, Inc.
2902 Evergreen Parkway
Evergreen, CO 80439
POC: PJ Lilly, Sales Executive
Phone: 888.670.8375
Email: pjlilly@secureoutcomes.net
www.secureoutcomes.net

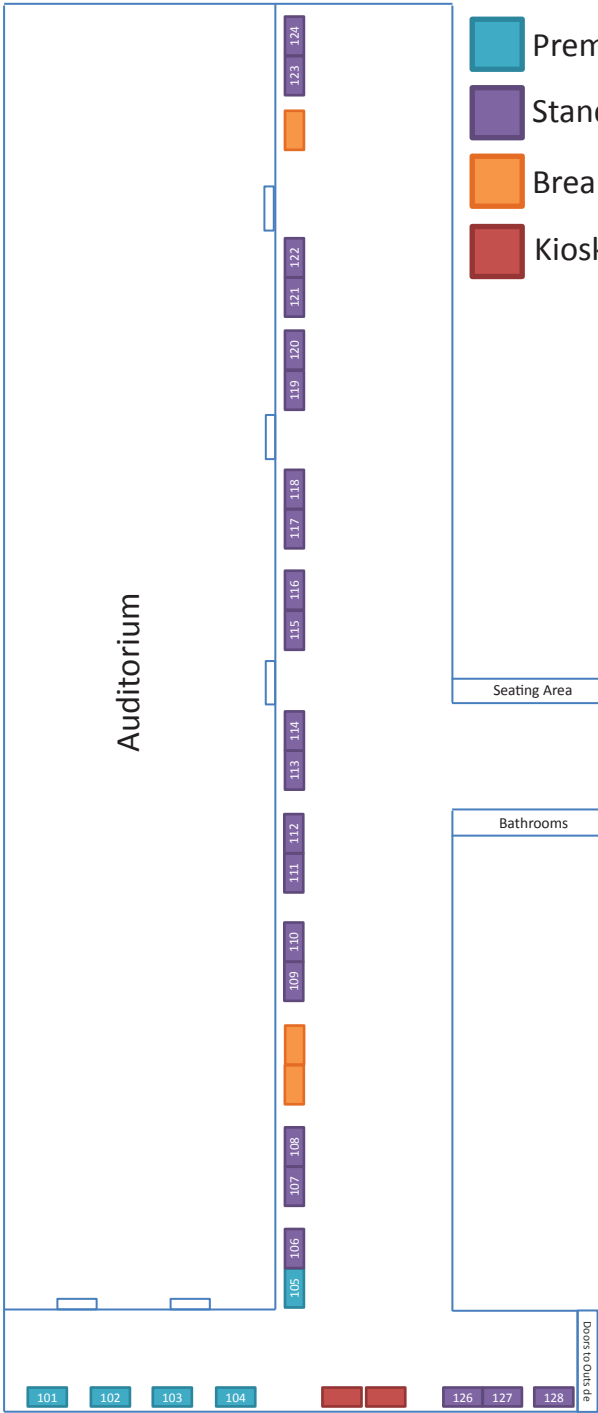
Sirchie
100 Hunter Place
Youngsville, NC 27596
POC: Mr. Andrew Mariella, Global Marketing Manager
Phone: 919.435.5669
Email: amariella@sirchie.com
www.sirchie.com

SoftGenetics
100 Oakwood Avenue, Suite 350
State College, PA 16803
POC: Ms. Teresa-Snyder Leiby, Product Manager
Phone: 814.237.9340
Email: teresa@softgenetics.com
www.softgenetics.com

Stevenson University
100 Campus Circle
Owings Mills, MD 21117
POC: Ms. Angela Scagliola, Director of Recruitment
Phone: 443.352.4414
Email: ascogliola@stevenson.edu
www.accelerate.stevenson.edu

Thank you for attending!
Notes and Comments

Thank you for attending!
Notes and Comments



- Premier tables
- Standard tables
- Break tables
- Kiosks

101 102 103 104

105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124

126 127 128

Doors to Outside

Seating Area

Bathrooms

Auditorium

FORENSICS@NIST
November 28-30, 2012 • #NISTForensics