BIOMETRICS FOR GOVERNMENT & LAW ENFORCEMENT

January 25th-27th, 2016 • Sheraton Pentagon City, Arlington, VA

Identity Innovation: Requirements for Advanced Recognition, Processing, and Analytics for Government and Law Enforcement Applications

Featured Speakers

- Amy Hess  
  Executive Assistant Director  
  FBI (Science and Technology Branch)

- Kenneth D. Gantt  
  Deputy Director  
  Office of Biometric Identity Management (OBIM)  
  DHS

- Wolf Tombe  
  Chief Technology Officer  
  U.S. Customs and Border Protection

- Nick Megna  
  Unit Chief BCOE  
  FBI CJIS Division

Identity Innovation Workshops Featuring NIEM and ARL

- Dr. Suowen Hu  
  Army Research Labs

- Will Graves  
  DoD Biometrics  
  Deputy Product Manager/Chief Engineer

- Kamran Atri  
  CSE CTO  
  NIEM Expert

Ten Featured Topics for the 10th Annual Event

- NIEM Biometrics Training Workshop
- DHS Maryland Test Facility (MdTF) Site Tour
- Homeland Advanced Recognition Technology
- Rapid DNA
- Facial Recognition Modality at the Border
- Multimodal Biometric Authentication
- Video and Voice Analytics
- Data Filtering for Interoperable Systems
- Systems Interoperability
- Mobile Biometrics Technology

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Dear Colleague:

I would like to welcome you to join us for our 10th annual Biometrics event. A decade along, and the rapid pace of innovation in today’s biometric technology continues to make the process of analysis and authentication more effective, efficient, and secure. Current advances in mobile and multi-modal analysis, including fields such as video analytics, facial, iris and fingerprint-based imagery and identification, voice-based recognition, mobile-based biometrics and Rapid DNA are advancing and refining the field of biometrics to better meet law enforcement and national security priorities.

This is an exciting time in the field of biometrics! Emerging programs include requirements for increased system interoperability, maximizing mobile and multi-modal authentication technology (expanding reach and enable flexibility while maintaining speed and accuracy guidelines.) Additionally, the management and development of more efficient and effective large-scale operational capabilities and the establishment of standards for plug-and-play performance and system inter-operability are all topics which will inform our discussion throughout the event.

For another year, we will bring together the biometrics community – both government and industry experts at the forefront of developing requirements for biometrics systems. I welcome you to join us at this three day event, where you can hear from thought-leaders from government, academia, and industry as we discuss requirements for biometrics applications for emerging government and law enforcement challenges, look at technology gaps in existing systems, and present the latest technology to address future biometrics requirements.

Very Respectfully,

Thirimachos Bourlai
Chairperson
10th Annual Biometrics for Government and Law Enforcement

P.S. Early registration discounts are available at www.biometricsevent.com or by calling 1-800-882-8684.

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Speakers at a Glance

KEYNOTE: Innovation and the Identity Landscape
Amy Hess
Executive Assistant Director
FBI (Science and Technology Branch)

Future Requirements for DOJ Biometrics Technology and Policy
James Loudermilk
Senior Level Technologist
FBI CJIS Division

Face Recognition Across the Electromagnetic Spectrum
Thirimachos Bourlai
(Chairperson) Director, MlLab, Assistant Professor
WVU

Biometric Identity Verification for Immigration
Lee Bowes
Acting Deputy Chief, Biometrics Division
U.S. Citizenship & Immigration Services

Developing Biometric Standards, Specification, and Technology
Nick Megna
Unit Chief BCOE
FBI CJIS Division

Homeland Advanced Recognition Technology
Kenneth D. Gantt
Deputy Director
Office of Biometric Identity Management

NIEM and ARL Innovation Workshops as part of our Technical Training Day

Topics to be covered include:
• Schema development
• Domain-to-domain alignment and harmonization
• NIEM 3.1-3.2 preparation
• Examination and demonstration of tools used to search attributes and work with NIEM.

• Rationalization for standardization of biometric exchange within operational settings
• Standardization (within both policy-driven organizations and operationally focused mission-centric organizations)
• Impact of the incremental releases of NIEM 3.1-3.2 [NIEM.GOV]

Workshop Facilitators
Kamran Atri
CSE CTO, NIEM Expert

Will Graves
DoD Biometrics Deputy Product Manager/Chief Engineer

Dr. Shuowen Hu
Army Research Labs

Past Attendee Snapshot:

- 31% DHS OBIM
- 19% DoD Biometrics
- 10% FBI CJIS
- 10% USCBP
- 8% FBI S&T
- 8% Other Law Enforcement
- 4% USCIS
- 9% DoD
- 1% International Government

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0800  Registration

0845  Chairperson Welcome and Opening Remarks

0900  KEYNOTE: Leveraging Technological Innovation to Meet Biometrics and Identity Requirements

- Requirements for new modalities in authentication
- Advanced Recognition Technology
- The future of biometrics for government and law enforcement

Dr. Ken Fritzsche
Director, Identity Technology Division, Office of Biometric Identity Management (OBIM)
DHS

0945  Morning Networking & Refreshment Break

1015  IDENTIFY INNOVATION WORKSHOP A: Overview of NIEM.GOV and NIEM Biometrics Domain (NBD)

The Biometrics Domain supports information sharing and promotes interoperability between mission-based organizations engaged in activities such as homeland security, national defense, border management and global law enforcement through the joint development and alignment of XML Biometric Standards. In this workshop, we will focus on NBD Standards training to include:

- Overview of current and future biometrics standards
- New developments in standardization and interoperability of biometrics systems
- Examination and demonstration of tools used to search attributes and work with NIEM

William Graves
Deputy Product Manager/ Chief Engineer
DoD Biometrics

Kamran Atri
CTO, NIEM expert
CSE

1145  Lunch

1245  IDENTIFY INNOVATION WORKSHOP B: Non-cooperative Human ID: Polarimetric-thermal and digital holographic imaging for long-range face and fingerprint acquisition and recognition

- Exploiting polarization-state information of thermal emissions for passive human identification in variable lighting
- Cross-spectrum recognition for interoperability with existing data sets
- Using 2-wavelength digital holography to construct 3-dimensional images; applications for finger and face biometrics

Dr. Shuowen Hu
U.S. Army Research Labs (ARL)

Dr. Nathaniel J. Short
U.S Army Research Labs (ARL)

Karl Klett
U.S. Army Research Labs

1330  IDENTIFY INNOVATION WORKSHOP C: How Good is Kinship with Rapid DNA?

Rapid DNA technology continues to improve, and kinship performance is exceeding all goals. This presentation will discuss recent DHS Rapid DNA technology performance evaluations of kinship analysis as well as validation plans for its operational use.

Chris Miles
Deputy Director, Standards Integration and Application
Capability Development Support Group/Standards Division
Department of Homeland Security

1415  Load Busses for MdTF

1500  SITE TOUR: DHS Maryland Test Facility (MdTF)

The DHS Maryland Test Facility (MdTF) is part of the Apex Air Entry/Exit Re-engineering (AEER) Program and provides a controlled environment for laboratory evaluation and operational scenario-based testing of various entry and biometric exit concepts of operation under simulated airport conditions.

**Due to clearance requirements, this site tour has a registration deadline of Jan.15th and is restricted to US citizens.

1630  Closing Remarks

1645  End of Technical Training Day
MAIN CONFERENCE DAY ONE

Tuesday, January 26th, 2016

0800  Registration & Coffee

0845  Chairperson’s Welcome and Opening Remarks

0900  KEYNOTE: Technology to Advance and Integrate Interagency Biometric Capabilities
• Requirements for innovation in authentication
• The technology landscape for identity
• Requirements to meet future government challenges

Amy Hess
Executive Assistant Director
FBI Science and Technology Branch

0945  Requirements for Facial Recognition Modality at the Border
• Interagency standardization to reduce cost
• Multiple agency interfaces—OBIM, DOD Biometrics Identity Management Agency (BIMA), FBI Next Generation Identification (NGI)
• HSPD 24—improved screening to protect against known and suspected terrorists

1030  Demo Drive / Morning Networking & Refreshment

1115  Requirements for Biometrics and Technical Support to Homeland Security Investigations
• Overview of Current Homeland Security Investigations
• Facial/Iris/Voice Biometrics Requirements
• Multi-Sensor Data Fusion

SA Rodger L. Werner
Unit Chief, ISIM
ICE-HSI

1200  Networking Luncheon

1300  KEYNOTE: Leveraging Commercial Technology to Enhance Government Capability at Reduced Cost
• Modernizing CBP’s approach to IT systems
• Developing common infrastructure
• The importance of interoperability

Wolf Tombe
Chief Technology Officer
U.S. Customs and Border Protection

(Confirmed pending USCBP approval)

1345  Developing Biometric Standards, Specification, and Technology
• Addressing noisy data intra-class variations and restricted degrees of freedom
• Decreasing spoof attacks and error rates
• Integration strategies of unimodal sources

Nick Megna
Unit Chief
Biometrics Center of Excellence (BCOE), FBI

1400  Afternoon Networking & Refreshment Break

1430  Developing Metrics to Evaluate Biometrics Enterprise Effectiveness
• Use of Performance Measures to Ensure Efficient Biometric System Operations
• Modelling & Simulation to Support Capacity Planning & Technology Improvement Investments
• Importance of Benchmarking to Biometric System Owners

Eric Bowman
Senior Technical Fellow
Biometrics Cyber & Intelligence Division
Northrop Grumman

1515  The FBI Fingerprint Program
• A 92 year national service for identification, criminal history information, and an aide in determining suitability for licensing and positions of trust
• Five waves of automation took response time from weeks and months to minutes and seconds
• An important element of crime investigation and Counterterrorism

James Loudermilk
Senior Level Technologist
FBI CJIS Division

1600  Closing Remarks

1700  End of Main Conference Day One

“Good exposure to what is happening across the government in biometrics”
—Katherine Bolger Engineering Program Manager Lockheed Martin

“The conference hit the high points of key business programs and emerging technologies with good networking opportunities”
—Ella Schiralli Manager Federal Government Markets 3M Company

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MAIN CONFERENCE DAY TWO

Wednesday, January 27th, 2016

0800  Registration & Coffee

0845  Chairperson’s Recap of Conference Day One

0900  KEYNOTE: Strategic Innovation in Support of Border Requirements - Entry Exit Transformation with Biometrics

Colleen M. Manaher
Executive Director
Planning, Program Analysis and Evaluation
U.S. Customs and Border Protection

0945  Homeland Advanced Recognition Technology

• Requirements for innovation in authentication systems
• Next generation tracking platforms
• Large-scale database management

Kenneth D. Gantt
Deputy Director
OBIM

1030  Morning Networking & Refreshment Break

1115  Biometric Identity Verification for Immigration

• The benefits of expanding biometric identity verification
• Potential role of multimodal biometric capture in immigration
• Potential uses of voice biometrics (and the potential concerns)

Lee Bowes
Acting Deputy Chief, Biometrics Division
U.S. Citizenship & Immigration Services

1200  Rapid DNA Requirements: Developing a CODIS Core STR Profile From a Reference Sample Buccal Swab

• Requirements for automated extraction, amplification, separation, detection and allele calling without human intervention
• Integrating Rapid DNA technology
• Developing instruments capable of producing a CODIS compatible DNA profile

Reserved for FBI S&T Branch

1245  Networking Luncheon

1345  PANEL: Advanced Recognition Technology

• DHS HART requirements
• Leveraging the state of the art
• Next-Generation technology

1430  Biometrics Between the Ports

• Information sharing for interagency collaboration
• Future requirements for biometrics technology
• The growing role of biometrics

Antonio Trindade
Associate Chief, Enforcement Systems, U.S. Border Patrol
U.S. Customs and Border Protection

1515  Afternoon Networking & Refreshment Break

1600  Technology Gaps in Biometrics for Government and Law Enforcement Applications

• Accuracy and cost effectiveness considerations
• Multi-modal solutions
• Partial Occusion

Prof Marios Savvides
Professor
Carnegie Mellon University

1645  Face Recognition Across the Electromagnetic Spectrum

• Face recognition concepts and their usage for researchers coming from the academia, industry or the government
• Face image representation across the electromagnetic spectrum as an emerging field
• Challenges/benefits of different face-based applications that exploit various sensors

Thirimachos Bourlai
Director, MilLab
Assistant Professor, WVU

1715  Closing Remarks

1730  End of Conference

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“Very helpful experience to where we are and where we are going in biometrics”

– Lamko Chau President Quodot Photonics Inc
**Registration & Pricing**

### 3 Easy Ways to Register:

- [idga@idga.org](mailto:idga@idga.org)
- 800.882.8684

### U.S. Government, Military, and Law Enforcement

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### Academia, Non-Profit and Foreign Military

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### Vendors, Consultants, and Solution Providers

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### Team Discounts

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<td>5 or more</td>
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- **Phone:** (703) 521-1900

**Location & Lodging Information**

For more information contact Brittany Hicks at 212-885-2756 or Brittany.Hicks@idga.org

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