



## Awareness and Localization of Explosives-Related Threats (ALERT)

*A Department of Homeland Security Center of Excellence*

### **Advanced Development for Security Applications (ADSA) Workshop 11: Explosives Detection in Air Cargo – Part II**

November 4 - 5, 2014

Raytheon (Room 240), Egan Research Center, Northeastern University  
120 Forsyth St., Boston, MA

# AGENDA

### **Tuesday, November 4, 2014 – Day 1**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Affiliation</b>
7:30 AM	<b>Check-in and Breakfast</b>		
8:30 AM	Welcoming Remarks - ALERT	Michael Silevitch	ALERT / Northeastern University
8:35 AM	Welcoming Remarks - DHS	Laura Parker	Department of Homeland Security
8:40 AM	Welcoming Remarks - DHS	Kumar Babu	Department of Homeland Security
8:45 AM	Setting the Stage	Carl Crawford	Csuptwo
<b>Perspectives</b>			
9:00 AM	TSA's Future for Cargo Inspection	Eric Houser	Transportation Security Administration
9:25 AM	UK Department for Transport Science and Technology Cargo- Screening Programme	Paul Redfern	UK Government
9:50 AM	TSA Policies	Allan Collier	Transportation Security Administration
10:15 AM	Air Forwarder Perspectives	Richard Fisher	Falcon Global Edge and the Airforwarders Association
10:30 AM	Air Transport Association Perspective	Ken Dunlap	International Air Transport Association
10:45 AM	<b>Break</b>		
<b>Financial and Risk</b>			
11:10 AM	ORNL's Economic Models in ACEDPP	Terri Rose Todd Combs	Oak Ridge National Lab Argonne National Lab
11:35 AM	Buying Down Risk	Doug Bauer	Department of Homeland Security (retired)



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Time	Topic	Speaker	Affiliation
12:00 PM	Economic Incentives in Air Cargo Screening (Panel Discussion)	Doug Pearl (facilitator) Richard Fisher Ken Dunlap Doug Bauer	Inzight Consulting Falcon Global Edge International Air Transport Association DHS (retired)
12:40 PM	<b>Lunch</b>		
<b>Vapor and Trace Detection</b>			
1:30 PM	Vapor Trace Detection with Large Arrays of Silicon Nano-Sensors	Ricardo Osiroff	Tracense Systems
1:55 PM	Novel Investigations in Trace Explosives Collection	Matthew Staymates	National Institute of Standards and Technology
2:20 PM	<b>Break</b>		
2:45 PM	Compound Specific Challenges Associated with Trace Detection	Michelle Clark	MIT Lincoln Lab
3:05 PM	Sampling Limitations for Trace	David Atkinson	Pacific Northwest National Lab
3:30 PM	Trace Explosives Sensor Testbed	Susan L. Rose-Pehrsson	Navy Technology Center for Safety and Survivability Naval Research Lab
3:55 PM	Air Cargo Screening – Requirements and Test Methodology	Danny Fisher	Israeli Prime Ministers' Office
4:20 PM	A New Standard for Testing and Evaluating Cargo X-Ray Technologies	Peter Harris	Synergy 4 Tech
<b>Risk and Deterrence</b>			
4:25 PM	Risk-Based Screening	Sheldon Jacobson	University of Illinois
4:50 PM	Game Theory	Arunesh Sinha Milind Tambe	University of Southern California & CREATE DHS Center of Excellence
<b>Reception and Networking Session</b>			
5:15 PM	<b>Reception and Networking Session</b>		
6:35 PM	Adjourn	Carl Crawford	Csuptwo

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## AGENDA

### Wednesday, November 5, 2014 – Day 2

Time	Topic	Speaker	Affiliation
7:30 AM	<b>Check-in and Breakfast</b>		
8:00 AM	Call to Order Day 2 and ADSA12	Carl Crawford	Csuptwo
<b>Vendor Perspectives</b>			
8:05 AM	Dutch High-Speed Cargo Inspection System	Ed Morton	Rapiscan Systems
<b>Assessments</b>			
8:30 AM	Simulants	Harry Martz Carl Crawford	Lawrence Livermore National Lab Csuptwo
8:55 AM	Analysis of Potential Technologies for Air Cargo Screening: A Progress Report	Michael Finnin	Massachusetts Institute of Technology
9:20 AM	<b>Break</b>		
<b>Methods Not Addressed at ADSA10</b>			
9:45 AM	Canine Detection	Edward Morrison	Auburn University
10:10 AM	Cargo Inspection Using X-Ray Backscatter	Dan-Cristian Dinca	American Science and Engineering, Inc.
<b>Sources and Detectors</b>			
10:35 AM	Neutron Sources and Detectors	Dan Strellis	Rapiscan Laboratories
11:00 AM	Monochromatic Photon Source	Cameron Geddes	Lawrence Berkeley National Lab
11:25 AM	High Energy X-Rays Sources and Detectors	Gongyin Chen	Varian Medical Systems
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Affiliation</b>
<b>Algorithms</b>			



11:50 AM Automated Threat Recognition and Alarm Resolution Patrick Radisson Multix Detection

12:15 PM Few-View, High Resolution Inspection Jonathan Foley Tufts University  
Brian Tracey  
Eric Miller

12:25 PM **Lunch**

1:00 PM Multilayer Material Discrimination Method with Dual X-Ray Energy Yuxiang Xing Tsinghua University

1:25 PM X-Ray Diffraction for Cargo Inspection David Castañón Boston University

1:50 PM Coded Aperture X-Ray Fluorescence Cargo Inspection Clem Karl Boston University

2:05 PM **Break**

**Next Steps & Discussion**

2:55 PM Perspectives on Cargo Inspection Tim White Pacific Northwest National Lab

3:20 PM Next Steps & Discussion Harry Martz Lawrence Livermore National Lab

**Wrap Up**

4:15 PM Closing Remarks - ALERT Michael Silevitch Northeastern University /ALERT

4:20 PM Closing Remarks - DHS Laura Parker Department of Homeland Security

4:25 PM **Adjourn** Carl Crawford Csuptwo