



ALERT
AWARENESS AND LOCALIZATION
OF EXPLOSIVES-RELATED THREATS

Awareness and Localization of Explosives-Related Threats (ALERT)

A Department of Homeland Security Center of Excellence

**Advanced Development for Security Applications (ADSA) Workshop 16:
Addressing the Requirements for Different Stakeholders in Transportation Security**

May 2-3, 2017

17th Floor Event Space, East Village
(291 Saint Botolph Street, Boston, MA 02115)
Northeastern University, Boston, MA

AGENDA

Tuesday, May 2, 2017 - Day 1

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
Introduction			
8:30 AM	Welcoming Remarks – ALERT	Carey Rappaport	Northeastern University / ALERT
8:35 AM	Welcoming Remarks, Dean of Engineering	Nadine Aubry	Northeastern University
8:40 AM	Welcoming Remarks	Laura Parker	Department of Homeland Security
8:45 AM	Setting the Stage	Carl Crawford	Csuptwo, LLC
TSA/DHS Perspectives			
8:55 AM	Panel Discussion - Perspectives, Advanced Topics, Cybersecurity	Keith Goll Mara Winn Jeffrey Quinones Domenic Bianchini John Fortune	Transportation Security Administration Transportation Security Administration Transportation Security Administration Transportation Security Administration Department of Homeland Security
9:50 AM	Cybersecurity	Tim Smith	Transportation Security Administration
10:15 AM	Break		
Terrorist Perspectives			
10:45 AM	Yes, We Can Now Predict Terrorist Targets	Max Abrahms	Northeastern University
Thomas Kuhn's Paradigm Shift Perspectives			
11:10 AM	Macro Security	Matthew Merzbacher	Smiths Detection
Vendor Perspectives – I			
11:35 AM	Requirement-Based Design	Bernard M. Gordon	Photo Diagnostic Systems, Inc.
12:00 PM	Former Inside Looking Back from the Outside	Piero Landolfi	Tesla



Time	Topic	Speaker	Affiliation
12:20 PM	Lunch		
Vendor Perspectives – II			
1:15 PM	Panel Discussion	Matthew Merzbacher Shiva Kumar Steven Urchuk Kristofer Roe Joseph Paresi	Smiths Detection Rapiscan Analogic Smiths Detection Americas Integrated Defense and Security Solutions
1:55 PM	Stratovan’s Perspective as Being a Third-Party Vendor and Recent Stratovan Involvement	David Wiley	Stratovan
2:20 PM	Break		
Airline and Airport Perspectives			
2:50 PM	Panel Discussion	Jose Freig Stephanie Vargas John Niebling Dan Weber Peter Boynton	American Airlines JetBlue Airlines JetBlue Airlines Alaska Airlines Northeastern University
3:45 PM	Collection and Dissemination of Security-Related Information	Lisa Asaro	JetBlue Airlines
Other Users Perspectives			
4:00 PM	CBP’s Security needs	Christopher Mocella	U.S. Customs and Border Protection
4:25 PM	Cargo Update	Allan Collier	Transportation Security Administration
4:50 PM	Aviation Security in Israel Compared to the United States	Avi Cagan	Self
Emerging Hardware Perspectives - II			
5:15 PM	Future X-ray System Concepts: Approaches and Issues	David Castañón	Boston University
Self-Reflective Perspectives			
5:40 PM	ADSA + Related Projects - Past, Present and Future	Laura Parker	Department of Homeland Security
6:05 PM	Adjourn	Carl Crawford	Csuptwo, LLC



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AGENDA

Wednesday, May 3, 2017 - Day 2

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
Introduction			
8:00 AM	Call to Order	Carl Crawford	Csuptwo, LLC
Deployment Perspectives			
8:05 AM	Specification of a Jell-O Detector	Matthew Merzbacher	Smiths Detection
8:30 AM	Regions of Responsibilities, Transfer Functions and the Role of Simulants	Harry Martz	Lawrence Livermore National Laboratory
Venue Protection Perspectives			
8:55 AM	Security at the Mall of America	Ashly Helser	Mall of America
9:20 AM	Screening/Security at Large Venues	Fred Roberts	Rutgers University
9:45 AM	Break		
Algorithm Perspectives (II)			
10:15 AM	Weapons Detection	Rohit Patnaik	Capture
10:40 AM	Dual Energy Decomposition Methods for Accurate Material Discrimination	Harry Martz	Lawrence Livermore National Laboratory



Time	Topic	Speaker	Affiliation
11:00 AM	Faster Testing of a Jell-O Detector & Basis Material Decomposition	Rob Klueg Christopher Smith Ron Krauss Joseph Palma Alex Demasi	Department of Homeland Security Department of Homeland Security Department of Homeland Security Battel Battel Signature Science
11:25 AM	Iterative Low-dose CT Reconstruction with Deep Neural Networks	Quanzheng Li	Massachusetts General Hospital
11:50 AM	Visual Analytics for Security Applications	David Ebert	Purdue University
12:15 PM	DICOS 2A and the TSL/DHS Database	Doug Bauer	Global Security Technologies
12:35 PM	Realistic Simulations of Baggage	Taly Gilat-Schmidt	Marquette University
12:55 PM	Lunch		
Emerging Hardware Perspectives			
2:30 PM	Explosive Trace Detection - Emerging Technologies	David Atkinson	Pacific Northwest National Lab
2:55 PM	Break		
Next Steps			
3:25 PM	Summary and Next Steps	Harry Martz Suriyun Whitehead Carl Crawford	Lawrence Livermore National Laboratory Booz Allen Hamilton Csuptwo, LLC
Closing Remarks			
3:50 PM	Closing Remarks	Carey Rappaport	Northeastern University /ALERT
3:55 PM	Closing Remarks	Laura Parker	Department of Homeland Security
4:00 PM	Adjourn	Carl Crawford	Csuptwo, LLC