



Awareness and Localization of Explosives-Related Threats (ALERT)
 ALERT is supported by the Department of Homeland Security (DHS)
 Science and Technology (S&T) Directorate and
 Customs and Border Protection (CBP) Office of Field Operations through the
 Office of University Programs (OUP)

**Customs and Border Protection - Advanced Developments
 Encompassing Processes and Technologies (CBP-ADEPT) Workshop 2:
 Advanced Development and Processes for Tomorrow**

July 17-18, 2019

240 Egan Research Center (Raytheon Room)
 (120 Forsyth Street, Boston, MA 02115)
 Northeastern University, Boston, MA

AGENDA

Wednesday, July 17, 2019 - Day 1

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
8:30 AM	Introductions		
8:30 AM	Welcoming Remarks - ALERT	Michael Silevitch	Northeastern University, ALERT <i>Director</i>
8:35 AM	Welcoming Remarks	Jacqueline Isaacs	Northeastern University <i>Interim Dean of the College of Engineering</i>
8:40 AM	CBP-ADEPT Introduction	David Taylor	DHS - Science & Technology Borders and Maritime Division <i>Program Manager</i>
8:50 AM	Setting the Stage	Carl Crawford	Csuptwo <i>President</i>
9:00 AM	CBP Perspectives - I		
9:00 AM	Keynote address	Robert Watt	DHS CBP, NII Division <i>Director</i>
9:30 AM	Innovations required to implement the seaport of the future	Brian Sale	CBP, Los Angeles/Long Beach Seaport <i>Chief CBP Officer</i>
10:05 AM	Break		
10:35 AM	CBP's use of data analytics and problems that need to be solved - a deeper dive	Roland Suliveras	DHS CBP Cargo Targeting <i>Director</i>

Time	Topic	Speaker	Affiliation
11:00 AM	Advanced Technologies - I		
11:00 AM	What is blockchain? And where is it applicable within customs? Experiences from Maersk, World Economic Forum and Trade Single Windows	Henrik Hvid Jensen	Trustworks <i>Senior Advisor</i>
11:25 AM	Lunch		
12:05 PM	CBP Perspectives - II		
12:05 PM	The Future of Direction of DHS S&T Border and Maritime Division	Jon McEntee	DHS, Immigration and Maritime Division <i>Director</i>
12:30 PM	Field Perspectives		
12:30 PM	CBP's Laboratories and Scientific Services: Priority Initiatives and Requirements	Chris Mocella	DHS CBP <i>Senior Science Officer</i>
12:55 PM	Laboratory Topics	Adam Hutter	CBP - US Customs and Border Protection, New York Laboratory <i>Laboratory Director</i>
1:20 PM	DHS S&T Perspectives		
1:20 PM	Benefit-Cost Analysis of Tools, Technologies and Knowledge Products	Isaac Maya	University of Southern California, Center for Risk and Economic Analysis of Terrorism Events <i>Associate Director</i>
1:45 PM	DHS Science and Technology Directorate (S&T) Silicon Valley Innovation Program (SVIP)	Ron McNeal	DHS, Silicon Valley Innovation Program <i>Transition Director</i>
2:10 PM	Port of Entry – People Screening	Arun Vemury	DHS, Biometrics Technology Engine <i>Director</i>
2:35 PM	Other Perspectives - I		
2:35 PM	Challenges for the border crossing in Israel and the main concepts of operations	Gad Frishman	Israeli Ministry of Public Security <i>Chief Scientist</i>
3:00 PM	Supply chain advances	Police Brig. Gen Efi Havivyan Eilon Shalev	elphi <i>Founder & CEO</i>
3:10 PM	Break		
3:40 PM	UK border protection	Trevor Francis	UK Home Office, Detection Services Programme
4:05 PM	Opioid Interdiction		
4:05 PM	Combatting Opioid Smuggling	Rosanna Robertson	DHS S&T, Office of Mission Capability Support <i>Program Manager</i>

Time	Topic	Speaker	Affiliation
4:30 PM	Applications of Trace Detection in Combating the Opioid Epidemic	Edward Sisco	National Institute of Standards and Technology, Surface and Trace Chemical Analysis Group <i>Research Chemist</i>
4:55 PM	Chemical Detection of Contraband	Jimmie Oxley	University of Rhode Island, Department of Chemistry <i>Professor</i>
5:20 PM	Panel discussion	Rosanna Robertson	DHS S&T, Office of Mission Capability Support <i>Program Manager</i>
		Edward Sisco	National Institute of Standards and Technology, Surface and Trace Chemical Analysis Group <i>Research Chemist</i>
		Jimmie Oxley	University of Rhode Island, Department of Chemistry <i>Professor</i>
		Harry Martz	Lawrence Livermore National Laboratory <i>Associate Program Leader</i>
6:00 PM	Adjourn	Carl Crawford	Csuptwo <i>President</i>

Thursday, July 18, 2019 - Day 2

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
8:00 AM	Call to order	Carl Crawford	Csuptwo <i>President</i>
8:05 AM	Other Perspectives - II		
8:05 AM	Dutch Customs - challenges that need to be solved with advanced technologies and procedures	Frank Heijmann	Customs Administration of The Netherlands <i>Head of Trade Relations</i>
8:30 AM	Advanced Technologies - II		
8:30 AM	Zero-Power Sensors for Border Protection	Zhenyun Qian	Northeastern University <i>Graduate Student</i>
8:50 AM	Analytics for CBP	Steve Morrison	Sandia National Laboratories
9:10 AM	Break		
9:50 AM	Image Analysis for X-rays	Carolina Cruz-Neira	University of Arkansas, Emerging Analytics Center <i>Director</i>
10:10 AM	Increased Safety and Speed for Narcotics Detection Using Standoff Raman	Romain Blanchard	Pendar Technologies <i>Director of Technology Development</i>
10:30 AM	Analysis of Radiographic Images to Improve Radiological/Nuclear Threat Detection in Commercial Cargo and experience working with DHS/CBP	Brian Henderson	Massachusetts Institute of Technology* <i>Stanton Post-Doctoral Fellow in Nuclear Security</i> *Now with MITRE

Time	Topic	Speaker	Affiliation
10:50 AM	The Airport Risk Assessment Model (ARAM): Increasing the Effectiveness of Airport Security Countermeasures	Natalie Heller	Pacific Northwest National Laboratory <i>Research Scientist</i>
11:10 AM	Lunch		
12:05 PM	Rigaku Analytical Devices	Bree Allen	Rigaku Analytical Devices - <i>President</i>
12:25 PM	Passport's Detection Technology Applied to Customs' Prohibited Items	Steve Korbly	Passport Systems <i>Chief Operating Officer</i>
12:45 PM	Advances in Currency Tracking to Support Intelligence Analysis	Eric Hansen	Note Shark <i>Director of Federal Programs</i>
1:05 PM	War Gaming Applications for Developing Novel Solutions for Contraband Detection	Diederik Stolk Graeme Goldsworthy	Goldsworthy, Stolk & Associates
1:25 PM	Screening of large volumes of cargo for contraband using ultra-sensitive atmospheric pressure chemical ionization high-resolution mass spectrometry	Richard Lareau	Karsa Oy <i>Technical Consultant</i>
1:45 PM	Application of CT Scanning to CBP	Ian McNaughton	L3 Technologies, Security and Detection Systems <i>Director of North American Sales</i>
2:05 PM	Neutron-based Scanning System	Joost van de Griendt Emma Wooldridge	Dynaxion
2:25 PM	Common Standards and Third Party Involvement		
2:25 PM	Common Viewer in the Airport/Seaport Environment	Michael Denning	CBP - Atlanta Field Office
2:45 PM	Operational Integration with UFF and the Common Viewer System	Mathieu Guillebaud	L3 Technologies, Security and Detection Systems <i>Acting Vice President Government and North American Sales</i>
3:05 PM	Automatic Prohibited and Contraband Item Detection in X-ray and Computed Tomography Security Screening - A Research Snapshot	Toby Breckon	Durham University, UK <i>Professor</i>
3:15 PM	Third party involvement and communication standards	Carl Crawford	Csuptwo <i>President</i>

Time	Topic	Speaker	Affiliation
3:20 PM	Next Steps		
3:20 PM	Discussion, Summary and Next Steps	Harry Martz	Lawrence Livermore National Laboratory <i>Associate Program Leader</i>
		Carl Crawford	Csuptwo <i>President</i>
3:50 PM	Closing Remarks		
3:50 PM	Closing Remarks	Michael Silevitch	Northeastern University - ALERT <i>Director</i>
3:55 PM	Closing Remarks	David Taylor	DHS - Science & Technology - Borders and Maritime Division <i>Program Manager</i>
4:00 PM	Adjourn	Carl Crawford	Csuptwo <i>President</i>