



Awareness and Localization of Explosives-Related Threats (ALERT)

*ALERT is an emeritus Department of Homeland Security (DHS)
Science and Technology (S&T) Directorate Center of Excellence
at Northeastern University, Boston, Massachusetts*

**Advanced Developments Encompassing Processes and Technologies
for Customs and Border Protection (CBP-ADEPT-04):
Case Studies for Enhancing Interdiction of Contraband**

In-Person and Virtual Workshop

August 17th, 2022, 8:30 AM - 5:30 PM

August 18th, 2022, 8:00 AM - 4:00 PM

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

Zoom Meetings
Links and passwords to be emailed

AGENDA

Subject to Change

Wednesday, August 17, 2022 - Day 1

Time	Topic	Speaker
7:30 AM - 8:30 AM	Check-in and Breakfast	
		Introductions
8:30 AM - 8:35 AM	Welcoming Remarks - ALERT <i>[In person]</i>	Michael Silevitch <i>Director</i> <i>SENTRY DHS Center of Excellence</i> <i>Northeastern University</i>
		Carey Rappaport <i>Director</i> <i>ALERT DHS Center of Excellence</i> <i>Northeastern University</i>

8:35 AM - 8:40 AM Welcoming Remarks - DHS S&T
[Virtual] **David Canty**
Office of University Programs
Science and Technology Directorate
Department of Homeland Security

8:40 AM - 8:50 AM Setting the Stage
[In person] **Carl Crawford**
President
Csuptwo

Harry Martz
Associate Program Leader
Center for Nondestructive Characterization
Lawrence Livermore National Laboratory

CBP and DHS S&T Perspectives

8:50 AM - 9:05 AM CBP-ADEPT Introduction
[In person] **David Taylor**
CBP Portfolio Manager
Science and Technology Directorate
Department of Homeland Security

9:05 AM - 9:40 AM Future of NII Operations
[In person] **George Acres**
NII Southern Regional Manager
NII Division/CBP Headquarters
U.S. Customs and Border Protection

9:40 AM - 10:15 AM Break

10:15 AM - 10:45 AM Leveraging Technology and International Partnerships to Strengthen Security
[Virtual] **Peter Touhy**
Director, Miami CTPAT Field Office
Customs Trade Partnership Against Terrorism (CTPAT)
U.S. Customs and Border Protection

10:45 AM - 11:10 AM CBP Innovation Team
[Virtual] **Suzy Shepherd**
Senior Portfolio Manager
Office of Innovation (INVNT)
Office of the Commissioner
U.S. Customs and Border Protection

Other Perspectives

11:10 AM - 11:40 AM Dutch Customs Update
[Virtual] **Micha Slegt**
Senior Scientist
Customs Region Amsterdam
Customs administration of the Netherlands

11:40 AM - 12:40 PM Lunch

Interdicting Products Made with Forced Labor

12:40 PM - 1:05 PM	Interdicting Products Made with Forced Labor <i>[In person]</i>	Johanna Estes <i>Special Advisor</i> <i>Office of Trade</i> <i>U.S. Customs and Border Protection</i>
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1:05 PM - 1:35 PM	Modernizing the Supply Chain into the 21st Century <i>[In person]</i>	Vincent Annunziato <i>Director – Business Transformation and Innovation Division (BTID)</i> <i>Trade Transformation Office (TTO)</i> <i>Office of International Trade (OT)</i> <i>U.S. Customs and Border Protection</i>
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Emerging Technologies - I

1:35 PM - 2:00 PM	Bubble Tech’s Inspection Technologies <i>[In person]</i>	Martin Smith <i>Head, R&D Department</i> <i>Bubble Technology Industries</i>
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Inspecting Sea Containers at Seaports for Multiple Types of Contraband

2:00 PM - 2:30 PM	Command Center Vision and Technical Overview <i>[Virtual]</i>	Victor Todorov <i>Chief, Advance Targeting Unit</i> <i>U.S. Customs and Border Protection</i> <i>Los Angeles/Long Beach Seaport</i>
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2:30 PM - 3:00 PM	Seaport Innovation <i>[In person]</i>	John Penswater <i>Chief, Seaport Innovation Project</i> <i>US Customs and Border Protection</i> <i>Office of Field Operations</i> <i>Cargo and Conveyance Security</i> <i>U.S. Customs & Border Protection</i>
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3:00 PM - 3:30 PM	Break	
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Interdicting Fentanyl in Postal Mail

3:30 PM - 4:00 PM	Interdiction at International Mail Facilities <i>[Virtual]</i>	Nick Amitrano <i>Program Manager</i> <i>U.S. Customs and Border Protection</i>
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4:00 PM - 4:30 PM	Novel Methods for Detecting Fentanyl at International Mail Facilities <i>[In person]</i>	David Castanon <i>Professor</i> <i>Department of Electrical and Computer Engineering</i> <i>Boston University</i>
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4:30 PM - 4:50 PM Fentanyl Reference Spectra: Aiding with Field Detection
[Virtual] **Ashley Bradley**
Biomedical Scientist
Chemical and Biological Signature Science Group
National Security Directorate
Pacific Northwest National Laboratory

4:50 PM - 5:10 PM Classification of Unknown Fentanyl Analogs Using Raman Spectroscopy
[In person] **Phillip Wilcox**
Electrical Engineer
DEVCOM Chemical Biological Center
Spectroscopy Branch

Emerging Technologies

5:10 PM - 5:30 PM Enhanced Operator Training Tools
[Virtual] **Sara Bracceschi**
Head of Consulting & Services
Customs at the Center for Adaptive Security
Research and Applications (CASRA)

Adjourn

Adjourn **Carl Crawford**
President
Csuptwo

Thursday, August 18, 2022 - Day 2

Time	Topic	Speaker
7:30 AM - 8:00 AM	Check-in and Breakfast Call to Order & Setting the Stage	Carl Crawford <i>President</i> <i>Csuptwo</i>
CBP Perspectives (Continued)		
8:00 AM - 8:30 AM	Best Practices When Engaging CBP [In person]	Todd Owen <i>Executive Assistant Commissioner (Retired)</i> <i>Office of Field Operations</i> <i>U.S. Customs and Border Protection</i>
8:30 AM - 8:55 AM	CBP Field Experiences [In person]	Michael Denning <i>Director, Field Operations (Retired)</i> <i>Boston Field Office</i> <i>U.S. Customs and Border Protection</i>
8:55 AM - 9:20 AM	Algorithm Capability Development for CBP [In person]	Rob Forrest <i>Senior Scientist</i> <i>Sandia National Laboratories</i>

9:20 AM - 9:40 AM	Video Analytics For Seaport Applications <i>[Virtual]</i>	EJ Guillen <i>Principal Software Engineer</i> <i>Sandia National Laboratories</i>
9:40 AM - 10:10 AM	Break	
Emerging Technologies - II		
10:10 AM - 10:35 AM	Digital Twins and their Applications <i>[Virtual]</i>	Fred Roberts <i>Director</i> <i>CCICADA DHS Center of Excellence</i> <i>Rutgers University</i>
10:35 AM - 11:00 AM	Application of Cloud Storage and Data for CBP Applications <i>[In person]</i>	Jeff Evans <i>National Security Directorate</i> <i>Pacific Northwest National Laboratory</i>
11:00 AM - 11:25 AM	Identifying and Prioritizing Conflicting CBP Objectives for Resource Allocation <i>[Virtual]</i>	Richard John <i>Professor of Psychology</i> <i>University of Southern California</i>
11:25 AM - 11:50 AM	ANSI Standard Improvement <i>[Virtual]</i>	Harry Martz <i>Associate Program Leader</i> <i>Center for Nondestructive Characterization</i> <i>Lawrence Livermore National Laboratory</i>
11:50 AM - 12:15 PM	Radiation Portal Monitors (RPM) Remote Operations <i>[Virtual]</i>	Mary Sue Hoxie <i>Project Manager</i> <i>Pacific Northwest National Laboratory</i>
12:15 PM - 12:40 PM	5G Applications at the Seaport <i>[In person]</i>	Doug White <i>5G Principal Engineer</i> <i>Homeland Security Systems Engineering and Development Institute (HSSEDI)</i> <i>MITRE</i>
12:40 PM - 1:40 PM	Lunch	
Emerging Technologies - III		
1:40 PM - 2:05 PM	Covert and Timeless Coastline Human Intrusion Detection Technology (CATCH-IT) <i>[Virtual]</i>	Zhenyun Qian <i>Co-founder</i> <i>Zepson</i> Matteo Rinaldi <i>Founder and the CEO</i> <i>Zepson</i>

2:05 PM - 2:25 PM	Border Screening Applications Using MION High Resolution Mass Spectrometry-based High-Throughput Vapor Detection <i>[In person]</i>	<p>Richard Lareau <i>Technical Advisory</i> <i>Karsa Oy</i></p> <p>HJ Jost <i>CEO</i> <i>Karsa Oy</i></p>
2:25 PM - 2:45 PM	Evidence for the Correlation of Increased Detection Performance <i>[In person]</i>	<p>Tom Cassidy <i>President</i> <i>SCA</i></p>
2:45 PM - 3:10 PM	Standoff Detection of Trace Chemicals on Surfaces <i>[In person]</i>	<p>Anish Goyal <i>VP Technology</i> <i>Block Engineering</i></p>
3:10 PM - 3:30 PM	Radioisotope Identification and Detection (RIID) equipment & Agnostic X-ray Viewer <i>[In person]</i>	<p>Chanisa Bottali <i>Sales Engineer</i> <i>Symetrica</i></p>
3:30 PM - 3:40 PM	High-Yield Neutron-Driven Technology for Cargo Screening <i>[In person]</i>	<p>Gabe Becerra <i>Senior Scientist</i> <i>Shine Technologies</i></p>
Closing Remarks		
3:40 PM - 3:55 PM	Summary and Next steps <i>[In person]</i>	<p>Carl Crawford <i>President</i> <i>Csuptwo</i></p> <p>Harry Martz <i>Associate Program Leader</i> <i>Center for Nondestructive Characterization</i> <i>Lawrence Livermore National Laboratory</i></p>
3:55 PM - 4:00 PM	Closing Remarks <i>[In person]</i>	<p>David Taylor <i>CBP Portfolio Manager</i> <i>Science and Technology Directorate</i> <i>Department of Homeland Security</i></p>
	Adjourn	<p>Carl Crawford <i>President</i> <i>Csuptwo</i></p>