



**Soft Target Engineering  
to Neutralize the  
Threat Reality**



**ALERT**  
AWARENESS AND LOCALIZATION  
OF EXPLOSIVES-RELATED THREATS

**Soft Target Engineering to Neutralize the Threat Reality (SENTRY)**  
*A Department of Homeland Security (DHS) Center of Excellence*  
**Awareness and Localization of Explosives-Related Threats (ALERT)**  
*An Emeritus DHS Center of Excellence*

**Advanced Development for Security Applications - Workshop 26**  
**Reducing the Lethality of Attacks on Soft Targets**

**In-Person and Virtual Workshop**

**Wednesday, November 30, 2022, 9:00 AM - 6:00 PM ET**

**Thursday, December 1, 2022, 8:00 AM - 4:00 PM ET**

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

## AGENDA

**Subject to Change**

### Wednesday, November 30, 2022 - Day 1

Time	Topic	Speaker
8:00 AM - 9:00 AM	<b>Check-in/Breakfast</b>	
<b>Introductions</b>		
9:00 AM - 9:15 AM	Welcoming Remarks - SENTRY <i>[In person]</i>	<b>Michael Silevitch</b> <i>Founding Director, ALERT</i> <i>Director, SENTRY</i> <i>Northeastern University</i>
9:15 AM - 9:20 AM	Welcoming Remarks - DHS <i>[In person]</i>	<b>David Canty</b> <i>Office of University Programs</i> <i>Science and Technology Directorate</i> <i>Department of Homeland Security</i>
9:20 AM - 9:30 AM	Setting the Stage <i>[In person]</i>	<b>Carl Crawford</b> <i>Csuptwo</i>
<b>DHS and CISA Perspectives</b>		
9:30 AM - 9:55 AM	CISA Keynote <i>[In person]</i>	<b>David Mussington</b> <i>Assistant Director for Infrastructure Security</i> <i>DHS Cybersecurity and Infrastructure Security Agency (CISA)</i>

9:55 AM - 10:20 AM School Safety  
*[In Person]*

**Don Hough**  
*Acting Deputy Associate Director  
 School Safety Task Force  
 DHS Cybersecurity and Infrastructure Security  
 Agency (CISA)*

10:20 AM - 10:40 AM Unmanned Aircraft Systems Security  
 Efforts  
*[In person]*

**L. Scott Parker**  
*Chief, UAS Security Branch  
 Office of Security Programs | Infrastructure  
 Security Division  
 DHS Cybersecurity and Infrastructure Security  
 Agency (CISA)*

10:40 AM - 11:05 AM **Break**

**Personal Experiences and Common Characteristics**

11:05 AM - 11:35 AM Personal Thoughts on the Sikh Temple  
 Shooting in Oak Creek, Wisconsin  
*[Virtual]*

**Pardeep Kaleka**  
*Serve 2 Unite*

11:35 AM - 12:00 PM Detecting Leakage and Threats in Digital  
 Spaces  
*[In person]*

**Dan Grabski**  
*Product Manager  
 Navigate360*

12:00 PM - 12:50 PM **Lunch**

12:50 PM - 1:00 PM Active Shooter Tracking and Evacuation  
 Routing for Survival (ASTERS)  
*[Virtual]*

**Subhadeep Chakraborty**  
*Associate Professor  
 Mechanical, Aerospace and Biomedical  
 Engineering Department  
 University of Tennessee, Knoxville*

1:00 PM - 1:30 PM Terrorist Target Selection  
*[Virtual]*

**Max Abrahms**  
*Associate Professor of Political Science  
 Northeastern University*

1:30 PM - 2:00 PM The Impact of Security  
 Countermeasures on Human  
 Behavior During Active Shooter  
 Incidents  
*[Virtual]*

**Burcin Becerik**  
*Dean's Professor of Civil and Environmental  
 Engineering  
 University of Southern California*

**Gale Lucas**  
*Research Assistant Professor  
 University of Southern California*

2:00 PM - 2:30 PM	Introduction to ALERRT and ALERRT's Review of the Uvalde (Robb Elementary School) Shooting <i>[Virtual]</i>	<b>Pete Blair</b> <i>Executive Director Advanced Law Enforcement Rapid Response Training (ALERRT) Texas State University</i>
2:30 PM - 3:00 PM	Terrorism and Targeted Violence in the United States <i>[In person]</i>	<b>Erin Miller</b> <i>Program Manager, Global Terrorism Database National Consortium for the Study of Terrorism and Responses to Terrorism University of Maryland</i>
<b>TSA Perspective - Surface Transportation</b>		
3:00 PM - 3:30 PM	Update from TSA on Surface Transportation <i>[In person]</i>	<b>Kevin Gaddis</b> <i>Division Director Surface Operations Transportation Security Administration</i>
3:30 PM - 4:00 PM	<b>Break</b>	
<b>Situational Awareness Platforms &amp; Virtual Sentries</b>		
4:00 PM - 4:30 PM	Domain Awareness Platform for School Safety <i>[In person]</i>	<b>Lisa Dolev</b> <i>Center for Applied Technologies for School Security</i>
4:30 PM - 5:00 PM	AI-Powered Gun Detection with Automated Response <i>[In person]</i>	<b>Ara Bagdasarian</b> <i>Co-founder Omnilert</i>
5:00 PM - 5:30 PM	Reacting to Events <i>[In Person]</i>	<b>Will Bernhjelm</b> <i>Vice President Security Mall of America</i> <b>Nick Evert</b> <i>Mall of America</i>
<b>Other Topics</b>		
5:30 PM - 6:00 PM	Interstate Pipelines As Soft Targets <i>[Virtual]</i>	<b>Paul Amato</b> <i>Vice President, Engineering, Operations and Environmental, Health &amp; Safety Iroquois Pipeline Operating Company Acting As Agent For: Iroquois Gas Transmission System, L.P.</i>
	<b>Adjourn</b>	<b>Carl Crawford</b> <i>Csuptwo</i>

	<b>Topic</b>	<b>Speaker</b>
7:30 AM - 8:00 AM	<b>Check-in/Breakfast</b>	
8:00 AM - 8:05 AM	Call to Order <i>[In person]</i>	<b>Carl Crawford</b> <i>Csuptwo</i>
<b>European Perspectives</b>		
8:05 AM - 8:30 AM	High Footfall Screening <i>[Virtual]</i>	<b>Alex T.</b>
8:30 AM - 8:55 AM	Discriminative Metal Detection Test Method <i>[Virtual]</i>	<b>Shona D.</b>
<b>Case Studies - Part II</b>		
8:55 AM - 9:20 AM	Public Knowledge and Attitudes about Biometrics and Security <i>[In person]</i>	<b>Mark Frank</b> <i>Professor</i> <i>Director, Communication Science Center</i> <i>Department of Communication</i> <i>University at Buffalo</i> <i>State University of New York</i>
9:20 AM - 9:50 AM	The Urgent Imperative for Hardening Schools <i>[Virtual]</i>	<b>Jennifer Hesterman</b> <i>Colonel, USAF (retired)</i> <i>Vice President</i> <i>Watermark Risk Management International</i>
9:50 AM - 10:20 AM	<b>Break</b>	
10:20 AM - 10:50 AM	Introduction to the Secure Community Network (SCN) <i>[Virtual]</i>	<b>Stephanie Viegas</b> <i>Deputy National Security Advisor</i> <i>Secure Community Network</i>
10:50 AM - 11:20 AM	Civil Liberties Issues Raised by Soft Target Protection <i>[In person]</i>	<b>Jay Stanley</b> <i>Senior Policy Analyst</i> <i>American Civil Liberties Union</i>
11:20 AM - 11:45 AM	Normal Blindness: Why See Something Say Something may not work <i>[In person]</i>	<b>Jeremy Wolfe</b> <i>Professor of Ophthalmology &amp; Radiology</i> <i>Harvard Medical School</i>
11:45 AM - 12:35 PM	<b>Lunch</b>	
12:35 PM - 1:05 PM	Considerations For Improving Physical Security in K-12 Schools <i>[Virtual]</i>	<b>Pauline Moore</b> <i>Political Scientist</i> <i>Professor, Pardee RAND Graduate School</i> <i>RAND Corporation</i>

1:05 PM - 1:30 PM	Behavior Detection <i>[Virtual]</i>	<p><b>Jennifer King Blanchard</b>  <i>Requirements and Capabilities Analysis (RCA)</i>  <i>Requirements, Human Performance, &amp;</i>  <i>Engineering Division (RHPED)</i>  <i>Human Performance Branch (HPB)</i>  <i>Lead Program Specialist</i>  <i>TSA</i></p> <p><b>Jenny Krueger</b>  <i>Desk Officer</i>  <i>Research, German Federal Police</i></p>
1:30 PM - 1:55 PM	Situational Awareness Platforms <i>[In person]</i>	<p><b>Nick Betzold</b>  <i>Data Scientist</i>  <i>Risk Modeling &amp; Optimization</i>  <i>National Security Directorate</i>  <i>Pacific Northwest National Laboratory</i></p>
1:55 PM - 2:20 PM	Using LiDAR for Protecting Soft Targets <i>[Virtual]</i>	<p><b>Gerald Becker</b>  <i>VP, Market Development &amp; Alliances</i>  <i>Quanergy Systems</i></p>
2:20 PM - 2:40 PM	Securing Soft Targets - A DHS Silicon Valley Innovation Program <i>[Virtual]</i>	<p><b>Thomas Anthony</b>  <i>CIO - Analytical AI</i></p>
<b>Emerging Technologies</b>		
2:40 PM - 3:05 PM	How Next-Gen Face Comparison Changes the Game for Hardening Soft Targets, Ethics and Privacy <i>[In person]</i>	<p><b>Dave Klepp</b>  <i>US Sales Director</i>  <i>Corsight</i></p>
3:05 PM - 3:25 PM	Advanced THz Imaging Systems to Intercept Soft Target Attacks and Facilitate Rapid Response <i>[In person]</i>	<p><b>Alexander Sappok</b>  <i>CEO</i>  <i>RaySecur Inc.</i></p>
3:25 PM - 3:45 PM	Standoff Detection of Trace Explosives for the Protection of Soft Targets <i>[Virtual]</i>	<p><b>Anish Goyal</b>  <i>V.P. of Technology</i>  <i>Block Engineering</i></p>
<b>Next Steps</b>		
3:45 PM - 3:59 PM	Summary and Next steps <i>[In person]</i>	<p><b>Harry Martz</b>  <i>Associate Program Leader</i>  <i>Center for Nondestructive Characterization</i>  <i>Lawrence Livermore National Laboratory</i></p>

3:59 PM - 4:00 PM      Closing Remarks - ALERT & SENTRY  
*[In person]*

**Michael Silevitch**  
*Founding Director, ALERT*  
*Director, SENTRY*  
*Northeastern University*

**Adjourn**

**Carl Crawford**  
*Csuptwo*