



**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 27
Implementation and Deployment of Situational Awareness Platforms
for Protecting Soft Targets

In-Person and Virtual Workshop

Tuesday, November 14, 2023, 9:00 AM - 5:30 PM ET
Wednesday, November 15, 2023, 8:00 AM - 4:00 PM ET

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

AGENDA

Subject to Change

Tuesday, November 14, 2023 - Day 1

Time	Topic	Speaker
8:00 AM - 9:00 AM	Check-in/Breakfast	
Introductions		
9:00 AM - 9:15 AM	Welcoming Remarks - SENTRY & ALERT <i>[In person]</i>	Michael Silevitch <i>Director, SENTRY</i> <i>Founding Director, ALERT</i> <i>Northeastern University</i>
9:15 AM - 9:20 AM	Northeastern University Welcome <i>[In person]</i>	Gregory Abowd <i>Dean of the College of Engineering</i> <i>Northeastern University</i>
9:20 AM - 9:25 AM	Welcoming Remarks - DHS <i>[In person]</i>	Laura Parker <i>Senior Advisor for Sensors</i> <i>Tech Centers Division</i> <i>Science and Technology Directorate</i> <i>Department of Homeland Security</i>
9:25 AM - 9:40 AM	Setting the Stage <i>[In person]</i>	Carl Crawford <i>Csuptwo</i>

9:40 AM - 10:30 AM

DHS Perspectives - Panel Discussion

Panelist
[In person]

Ryan Donaghy
Associate Director
Planning & Innovation Infrastructure Security
Division
DHS Cybersecurity and Infrastructure Security
Agency (CISA)

Panelist
[In person]

Laura Parker
Senior Advisor for Sensors
Tech Centers Division
Science and Technology Directorate
Department of Homeland Security

Moderator
[In person]

Michael Silevitch
Director, SENTRY
Founding Director, ALERT
Northeastern University

10:30 AM - 11:20 AM **Break**

Case Studies & School Security

11:20 AM - 12:00 PM

Gunman at Memphis School Thwarted
by Security Measures & SCN's Command
Center
[In person]

Stephanie Viegas
Deputy National Security Advisor
Secure Community Network

12:00 PM - 12:25 PM

A First-Hand Account: Understanding the
Impact of a School Shooting
[Virtual]

Penelope (Penny) Eucker
Executive Director, retired
STEM School Highlands Ranch

12:25 PM - 12:45 PM

Methods to Protect Soft Targets
[In person]

Marty Foldes
Director of Operations
Proventus
Michael Stern
CEO
Proventus

12:45 PM - 1:50 PM

Lunch

Workforce Development

1:50 PM - 2:05 PM

Engineering PLUS Alliance Corporate
Affiliates Program
[In person]

Tim Enright
Industry Partnerships
Northeastern University

Command Centers

2:05 PM - 2:25 PM	Insights learned During the Development of a Domain Awareness Platform for Protecting Schools <i>[In person]</i>	Lisa Dolev <i>Founder</i> <i>CATS2 Foundation</i> Haley Braff <i>CATS2 Community Outreach Specialist</i> <i>CATS2 Foundation</i>
2:25 PM - 2:45 PM	What Makes it So Difficult to Deploy Command and Control Systems? <i>[Virtual]</i>	Victor Todorov <i>Chief, Advance Targeting Unit</i> <i>Los Angeles/Long Beach Seaport</i> <i>U.S. Customs and Border Protection</i>
2:45 PM - 3:05 PM	Many Screens, One human - What Could Go Wrong and What Might Help? <i>[In person]</i>	Jeremy Wolfe <i>Professor of Ophthalmology & Radiology</i> <i>Harvard Medical School</i>
3:05 PM - 4:00 PM	Break	
4:00 PM - 4:25 PM	Command Center Functionality for Soft Targets <i>[In person]</i>	David Castañón <i>Professor</i> <i>Department of Electrical and Computer Engineering</i> <i>Boston University</i>
4:25 PM - 4:45 PM	Virtual Sentry Connectivity to the Events at Robb Elementary School, Uvalde, Texas <i>[In person]</i>	Carl Crawford <i>Csuptwo</i>
Miscellaneous Topics		
4:45 PM - 4:55 PM	SENTRY - The Basic Ordering Agreement <i>[In person]</i>	Michael Silevitch <i>Founding Director, ALERT</i> <i>Director, SENTRY</i> <i>Northeastern University</i>
4:55 PM - 5:10 PM	Active Shooter Tracking and Evacuation Routing for Survival (ASTERS) - Update <i>[In person]</i>	Subhadeep Chakraborty <i>Associate Professor</i> <i>Mechanical, Aerospace and Biomedical Engineering Department</i> <i>University of Tennessee, Knoxville</i>
5:10 PM - 5:30 PM	Enhancing School Security <i>[Virtual]</i>	Anthony Feola <i>Director of Facilities, Security & Transportation</i> <i>Lincoln Public Schools</i>

Adjourn

Carl Crawford
Csuptwo

Wednesday, November 15, 2023 - Day 2

	Topic	Speaker
7:30 AM - 8:00 AM	Check-in/Breakfast	
8:00 AM - 8:05 AM	Call to Order <i>[In person]</i>	Carl Crawford <i>Csuptwo</i>
DHS Perspectives		
8:05 AM - 8:40 AM	TSA Keynote Speaker <i>[Virtual]</i>	Jim Bamberger <i>Branch Chief</i> <i>Public Area Security and Infrastructure</i> <i>Protection Requirements & Capabilities Analysis</i> <i>Transportation Security Administration</i> <i>US Department of Homeland Security</i>
Emerging Technology		
8:40 AM - 9:00 AM	Understanding Crowds and the Road to Scalable Intelligent Security <i>[Virtual]</i>	David Clark <i>Director</i> <i>Createc</i>
SENTRY Projects		
9:00 AM - 9:20 AM	Real Time Management of Threat Detection & Mitigation <i>[In person]</i>	David Castañón <i>Professor</i> <i>Department of Electrical and Computer Engineering</i> <i>Boston University</i>
9:20 AM - 9:40 AM	Advanced Sensing Technologies for Threat Detection and Mitigation <i>[In person]</i>	Carey Rappaport <i>Director, ALERT</i> <i>Northeastern University</i>
9:40 AM - 10:00 AM	Risk Assessment, Prediction and Deterrence of Soft target threats <i>[In person]</i>	Jun Zhuang <i>Professor</i> <i>Department of Industrial and Systems Engineering</i> <i>University at Buffalo</i>
10:00 AM - 10:35 AM	Break	

10:35 AM - 10:55 AM	Layered Security Design for Schools: Building Types and Contexts <i>[In person]</i>	Peter Wiederspahn <i>Associate Professor</i> <i>School of Architecture</i> <i>Northeastern University</i>
10:55 AM - 11:15 AM	Virtual Sentry Framework Testbed <i>[Virtual]</i>	Scott Howard <i>Associate Professor</i> <i>Electrical Engineering</i> <i>University of Notre Dame</i>
11:15 AM - 11:35 AM	Sentry Development Framework for <i>Modeling and Simulation Capabilities</i> <i>[In person]</i>	John Taibi <i>Vice President of Business Development</i> <i>Cambridge Consultants</i>
11:35 AM - 12:25 PM	Lunch	

Emerging Technologies and Sensors

12:25 PM - 12:45 PM	Evolv's Experiences with Protecting Schools <i>[In person]</i>	Michael Ellenbogen <i>Founder & Chief Innovation Officer</i> <i>Evolv Technology</i>
12:45 PM - 1:05 PM	Extended Range Concealed Object Detection with AI-based Millimeter Radar <i>[Virtual]</i>	Fred Mohamadi <i>CEO</i> <i>TiaLinx, Inc.</i>
1:05 PM - 1:25 PM	Standoff Detection of Threats <i>[In person]</i>	Vito Levi D'Ancona <i>Director</i> <i>Scientific Venture Partners</i>
1:25 PM - 1:45 PM	Using Speech to Detect Mental Health Symptoms: Benefits and Risks <i>[In person]</i>	Daniel Low <i>PhD Candidate</i> <i>Program in Speech and Hearing Bioscience and Technology</i> <i>Harvard University</i> <i>NIH Bridge2AI Voice as a Biomarker of Health Consortium</i>
1:45 PM - 2:05 PM	On-Person Screening using Video-Rate Millimeter-Wave Imaging <i>[In person]</i>	Michael Lanzaro <i>President and CTO</i> <i>Liberty Defense</i>
2:05 PM - 2:25 PM	Securing Soft Targets - Challenges and Opportunities in Development and Integration of Real-Time AI Algorithms for Video Data <i>[In person]</i>	William Monroe <i>Director of Data Science</i> <i>Analytical AI</i>

2:25 PM - 2:45 PM **Break**

Miscellaneous Topics

2:45 PM - 3:05 PM	Unintended Consequences, Civil Liberties, Privacy Concerns Related to Protecting Soft Targets <i>[In person]</i>	Jay Stanley <i>Senior Policy Analyst</i> <i>ACLU Speech, Privacy, and Technology Project</i> <i>American Civil Liberties Union</i>
-------------------	---	--

3:05 PM - 3:25 PM	Effectiveness of on-field security at sporting events <i>[In person]</i>	Mark Frank <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>
-------------------	---	---

3:25 PM - 3:40 PM	SafetyFox - A Decision Support Application for Rapid Egress for Home Fires and Other Situations <i>[In person]</i>	Maya Sierra Matilda Van Hecke Clare Reddin <i>Students</i> <i>Golda Meir School</i> Tina Gleason <i>Project Lead The Way</i> <i>STEM Club Coach</i> <i>Golda Meir School</i>
-------------------	---	--

Next Steps

3:40 PM - 3:55 PM	Summary and Next steps <i>[In person]</i>	Harry Martz <i>Associate Program Leader</i> <i>Center for Nondestructive Characterization</i> <i>Lawrence Livermore National Laboratory</i>
-------------------	--	---

3:55 PM - 4:00 PM	Closing Remarks - SENTRY & ALERT <i>[In person]</i>	Michael Silevitch <i>Director, SENTRY</i> <i>Founding Director, ALERT</i> <i>Northeastern University</i>
-------------------	--	--

Adjourn	Carl Crawford <i>Csuptwo</i>
----------------	--