



ALERT

AWARENESS AND LOCALIZATION
OF EXPLOSIVES-RELATED THREATS



SOFT TARGET ENGINEERING
TO NEUTRALIZE THE
THREAT REALITY

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 25
Protecting Surface Transportation and Other Soft Targets

In-Person and Virtual Workshop

May 3, 2022, 9:00 AM - 6:00 PM ET

May 4, 2022, 8:00 AM - 4:30 PM ET

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

AGENDA

Subject to Change

Tuesday, May 3, 2022 - Day 1

| Time | Topic | Speaker |
|---------|---|---|
| 8:00 AM | Check-in/Breakfast | |
| 9:00 AM | Introductions | |
| 9:00 AM | Welcoming Remarks <i>[In person]</i> | Carey Rappaport <i>Director, ALERT</i> <i>Northeastern University</i> |
| 9:05 AM | Setting the Stage <i>[In person]</i> | Carl Crawford <i>President</i> <i>Csuptwo</i> |
| | | Harry Martz <i>Associate Program Leader</i> <i>Center for Nondestructive Characterization</i> <i>Lawrence Livermore National Laboratory</i> |

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| 9:15 AM | Protecting Soft Targets and Crowded Spaces -Engaging the Research Community <i>[In person]</i> | <p>Laura Parker <i>Senior Advisor for Sensors Science and Technology Directorate Department of Homeland Security</i></p> <p>David Canty <i>Office of University Programs Science and Technology Directorate Department of Homeland Security</i></p> |
| 9:30 AM | Welcoming Remarks and Overview of the SENTRY DHS Center of Excellence for Protecting Soft Targets and Crowded Spaces <i>[In person]</i> | <p>Michael Silevitch <i>Founding Director, ALERT Director, SENTRY Northeastern University</i></p> |
| 9:50 AM | DHS, TSA, CISA and Other Perspectives | |
| 9:50 AM | Protecting Surface Transportation <i>[In person]</i> | <p>Sonya Proctor <i>Assistant Administrator for Surface Operations Transportation Security Administration</i></p> |
| 10:20 AM | TSA Topics <i>[In person]</i> | <p>Keith Goll <i>Acting Assistant Administrator for Requirements and Capability Transportation Security Administration</i></p> |
| 10:50 AM | TSA Perspective on Protecting Soft Targets <i>[In person]</i> | <p>Matt Gilkeson <i>Innovation Task Force Division Director Transportation Security Administration</i></p> |
| 11:15 AM | Break | |
| 11:45 AM | DHS's Cybersecurity and Infrastructure Security Agency (CISA): Introduction and Role in Protecting Soft Targets <i>[Virtual]</i> | <p>David Mussington <i>Assistant Director for Infrastructure Security DHS Cybersecurity and Infrastructure Security Agency (CISA)</i></p> |
| 12:15 PM | DHS S&T Activities on Soft-Target Protection <i>[Virtual]</i> | <p>Ali Fadel <i>Physical Security Program Manager Soft Targets Security Science & Technology Directorate U.S. Dept. of Homeland Security</i></p> |

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| 12:30 PM | FBI's Perspective on Protecting Soft Targets <i>[In person]</i> | Kirk Yeager <i>Chief Explosives Scientist Federal Bureau of Investigation</i> |
| 12:50 PM | Lunch | |
| 1:30 PM | Terrorism and Crime | |
| 1:30 PM | Terrorism and Sophisticated Crime <i>[Virtual]</i> | Brian Michael Jenkins <i>Director, National Transportation Security Center Mineta Institute & Rand Corporation</i> |
| 2:00 PM | Mass Shootings <i>[In person]</i> | James Alan Fox <i>Lipman Family Professor of Criminology, Law, and Public Policy Northeastern University</i> |
| 2:30 PM | NCITE's (DHS Center of Excellence) Perspective on Protecting Soft Targets <i>[In person]</i> | Gina Ligon <i>Director of NCITE University of Nebraska Omaha</i> |
| 3:00 PM | Case Studies: Schools and Sports Venues | |
| 3:00 PM | What Worried This High School Principal? <i>[Virtual]</i> | Jacob Ludes <i>CEO and President New England Association of Schools and Colleges (Retired)</i> |
| 3:25 PM | Securing Jewish Institutions <i>[In person]</i> | Ari Friedman <i>Director of Security & Community Properties Milwaukee Jewish Federation</i> |
| 3:50 PM | Break | |
| 4:35 PM | Architectural Design for Protecting Soft Targets <i>[In person]</i> | David Fannon <i>Associate Professor School of Architecture Northeastern University</i> |
| 4:55 PM | Balancing Stakeholder Needs for Protecting Schools <i>[Virtual]</i> | Rabbi Mendel Shmotkin <i>CEO Lubavitch of Wisconsin</i> |
| 5:15 PM | Security for NFL Venues <i>[Virtual]</i> | Cathy Lanier <i>Chief Security Officer National Football League</i> |

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| 5:40 PM | | Methods |
| 5:40 PM | Application of Serious War Gaming to Protecting Soft Targets for Developing Concepts of Operation and Requirements <i>[Virtual]</i> | Diederik Stolk <i>Founding Partner</i> <i>Goldsworthy, Stolk & Associates</i> |
| 6:00 PM | Adjourn | Carl Crawford <i>President</i> <i>Csuptwo</i> |

Wednesday, May 4, 2022 - Day 2

| Time | Topic | Speaker |
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| 7:30 AM | Check-in/Breakfast | |
| 8:00 AM | Call to Order & Setting the Stage <i>[In person]</i> | Carl Crawford <i>President</i> <i>Csuptwo</i> |
| 8:05 AM | | Case Studies - Part II |
| 8:05 AM | Humans Are the Weakest Link in Security - But Also Could Be the Greatest Asset! <i>[In person]</i> | Jennifer Hesterman <i>Colonel, USAF (retired)</i> <i>Vice President</i> <i>Watermark Risk Management International</i> |
| 8:30 AM | Being a Night Watchman When Protecting Soft Targets - Dealing with Rare Events <i>[Virtual]</i> | Jeremy Wolfe <i>Professor of Ophthalmology & Radiology</i> <i>Harvard Medical School</i> |
| 8:50 AM | Optimizing Multi-Layered Security Screening <i>[Virtual]</i> | David Anderson <i>Transport & Border Security</i> <i>Joint Research Centre (JRC)</i> <i>European Commission</i> |

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| 9:15 AM | Validating Adaptive Behavior Models of Adversaries for Risk Assessment <i>[Virtual]</i> | <p>Brandon Behlendorf <i>Deputy Director, Center for Advanced Red Teaming</i> <i>Assistant Professor</i> <i>ETEC – College of Emergency Preparedness, Homeland Security & Cybersecurity</i> <i>University at Albany</i> <i>State University of New York</i></p> <p>Gary Ackerman <i>University at Albany</i> <i>State University of New York</i></p> |
| 9:40 AM | Active Shooter Drills at Logan Airport <i>[Virtual]</i> | <p>Wendy Riggs-Smith <i>Senior Project Manager</i> <i>Massachusetts Port Authority</i></p> |
| 10:05 AM | Security at the Mall of America <i>[In Person]</i> | <p>Will Bernhjelm <i>Vice President Security</i> <i>Mall of America</i></p> |
| 10:30 AM | Break | |
| 11:10 AM | Balancing Stakeholder Needs for Protecting Synagogues <i>[Virtual]</i> | <p>Rabbi Wesley Kalmar <i>Anshe Sfard Kehillat Torah Synagogue</i> <i>Milwaukee, Wisconsin</i></p> |
| 11:30 AM | Industrial Experiences | |
| 11:30 AM | Qylur's Experiences with Venue Protection <i>[In person]</i> | <p>Lisa Dolev <i>Founder & CEO</i> <i>Qylur Intelligent Systems</i></p> |
| 11:55 AM | Evolv's Experiences with Venue Protection <i>[In person]</i> | <p>Michael Ellenbogen <i>Founder & Chief Innovation Officer</i> <i>Evolv Technology</i></p> |
| 12:20 PM | Leidos' Products for Protecting Soft Targets <i>[In person]</i> | <p>Andrew Foland <i>Chief Technical Officer</i> <i>Leidos</i></p> |

12:45 PM Radar-based Threat Detection for Soft Target Applications
[In person] **Ajay Subramanian**
Principal RF Design Engineer
Liberty Defense

Michael Lanzaro
President and CTO
Liberty Defense

1:00 PM **TSA - Soft Targets and Aviation Security**

1:00 PM Keynote Address **Austin Gould**
[In person] *Acting Deputy Executive Assistant Administrator*
for Operations Support
Transportation Security Administration

1:30 PM **Lunch**

2:25 PM Emergent Challenges in Aviation Security that Drive the Need for Enhanced Detection Equipment
[In person] **Don Kim**
Senior Aviation Security Systems Engineer
Transportation Security Administration

2:50 PM **Technology Development**

2:50 PM From EMI to AI: a Brief History of Commercial CT Reconstruction Algorithms - Emphasis on Driving Forces
[Virtual] **Patrick La Riviere**
Professor
Department of Radiology
The University of Chicago

Carl Crawford
President
Csuptwo

3:15 PM Black Box AI and DHS Systems
[In person] **Matthew Merzbacher**
Volunteer
Alameda County Community Food Bank

3:35 PM Automation Reliability, Human-Machine System Performance and Operator Compliance: A study with Airport Security Screeners
[In person] **David Huegli**
Research Scientist
University of Applied Sciences and Arts
Northwestern Switzerland

4:00 PM **School Safety**

4:00 PM Modeling and Simulation for Improved School Safety
[In person]

Robert Hanson
*Deputy Associate Program Leader for Defense Infrastructure
Global Security E Program
Lawrence Livermore National Laboratory*

Amy Askin
*Global Security Systems Analyst
Lawrence Livermore National Laboratory*

4:20 PM **Next Steps**

4:20 PM Summary and Next steps
[In person]

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

Carl Crawford
*President
Csuptwo*

4:25 PM Closing Remarks - DHS
[In person]

Laura Parker
*Senior Advisor for Sensors
Science and Technology Directorate
Department of Homeland Security*

4:27 PM Closing Remarks - ALERT & SENTRY
[In person]

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

4:30 PM **Adjourn**

Carl Crawford
*President
Csuptwo*

12:00 AM **Presentations Distributed But Not Presented at the Workshop**

Streamlining Security Equipment
Tenders

Richard Dempers

*Lead Designer – Security Transformation
Programme and Open Architecture
Heathrow Airport*

Eugene Kramer

Head of Cybersecurity for Passenger, AVSEC and
Borders
Security Strategy and Cyber Defence
Heathrow Airport

Paul Evans

*Security Technology Manage
Heathrow Airport*

Open Architecture for Airport Security
Systems Status update

Richard Dempers

*Lead Designer – Security Transformation
Programme and Open Architecture
Heathrow Airport*

Eugene Kramer

*Head of Cybersecurity for Passenger, AVSEC and
Borders
Security Strategy and Cyber Defence
Heathrow Airport*