



## Awareness and Localization of Explosives-Related Threats (ALERT)

*A Department of Homeland Security Center of Excellence*

### **Advanced Development for Security Applications (ADSA) Workshop 12: Screening of Personnel and Divested Items at the Checkpoint**

May 12-13, 2015

Raytheon (Room 240), Egan Research Center, Northeastern University  
120 Forsyth St., Boston, MA

# AGENDA

## Tuesday, May 12, 2015 – Day 1

| Time                         | Topic   | Speaker            | Affiliation                             |
|------------------------------|---|--------------------|---|
| 7:30 AM                      | <b>Check-in and Breakfast</b>   |                    |   |
| 8:30 AM                      | Welcoming Remarks - ALERT   | Michael Silevitch  | ALERT / Northeastern University         |
| 8:35 AM                      | Welcoming Remarks - DHS   | Laura Parker       | Department of Homeland Security         |
| 8:40 AM                      | Setting the Stage   | Carl Crawford      | Csuptwo                                 |
| <b>Perspectives</b>          |   |                    |   |
| 8:55 AM                      | The Aviation Checkpoint of the Future (S&T's APEX Screening at Speed Initiative)                              | Chris Smith        | Department of Homeland Security         |
| 9:40 AM                      | EU Perspectives on the Checkpoint   | Guido Peetermans   | International Air Transport Association |
| <b>Concept of Operations</b> |   |                    |   |
| 10:10 AM                     | Historic and Recent Work on Checkpoint Technology Integration   | Steve Wolff        | Wolff Consulting Services               |
| 10:40 AM                     | <b>Break</b>  |                    |   |
| 11:05 AM                     | Improving Throughput and Reducing Divestiture; Integration at the Checkpoint; Managed Inclusion and Exclusion | Amir Neeman        | AN Consulting                           |
| 11:35 AM                     | Bin Return Systems  | Colin James        | MacDonald Humfrey                       |
| 12:05 PM                     | <b>Lunch</b>  |                    |   |
| 12:55 PM                     | Capability Gaps and Secondary Screening   | Matthew Merzbacher | Morpho Detection                        |



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| <b>Time</b>                    | <b>Topic</b>   | <b>Speaker</b>                       | <b>Affiliation</b>              |
|--------------------------------|--|--------------------------------------|---------------------------------|
| 1:25 PM                        | Putting Passenger Experience at the forefront: Qylatron (TM) Field Results | Alysia Sagi-Dolev                    | Qylur Intelligent Systems       |
| <b>Third Party Involvement</b> |  |                                      |                                 |
| 1:55 PM                        | Common Interfaces and Networks   | Frank Cartwright                     | TSA                             |
| 2:25 PM                        | Efficiency and Detection Benefits of 3rd Party Add-Ons to AT Systems       | Jon Glickhouse<br>Brian Whitty       | TSA                             |
| 2:55 PM                        | X-Ray Testbed  | Andrew Cox                           | Sandia National Laboratories    |
| 3:15 PM                        | <b>Break</b>   |                                      |                                 |
| <b>Using Risk</b>              |  |                                      |                                 |
| 3:40 PM                        | TSA's Risk Based Approach to Passenger Screening                           | Kenneth Fletcher                     | TSA                             |
| 4:10 PM                        | Risk Based Screening   | Andrew Cox                           | Sandia National Laboratories    |
| 4:40 PM                        | Under-Versus Over-Screening  | Sheldon Jacobson                     | University of Illinois          |
| <b>Special Topic</b>           |  |                                      |                                 |
| 5:10 PM                        | Application War Gaming to Aviation Security                                | Graeme Goldsworthy<br>Diederik Stolk | Goldsworthy, Stolk & Associates |
| <b>Reception</b>               |  |                                      |                                 |
| 5:55 PM                        | <b>Reception</b>   |                                      |                                 |
| 6:30 PM                        | <b>Adjourn</b>   |                                      |                                 |



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# AGENDA

### **Wednesday, May 13, 2013 – Day 2**

| <b>Time</b>              | <b>Topic</b>   | <b>Speaker</b>           | <b>Affiliation</b>      |
|--------------------------|--|--------------------------|-------------------------|
| 7:30 AM                  | <b>Check-in and Breakfast</b>  |                          |                         |
| 8:00 AM                  | Call to Order, ADSA13,<br>Future ALERT Task Orders   | Carl Crawford            | Csuptwo                 |
| <b>Emerging Hardware</b> |  |                          |                         |
| 8:10 AM                  | Metamaterials for MMW  | Jonah Gollub             | Duke University         |
| 8:40 AM                  | Multibeam X-Ray CT for the<br>Checkpoint   | Brian Gonzales           | Xinray Systems          |
| 9:10 AM                  | Benefits of Spectral Detectors and<br>Non-Rotating Gantry                                    | Carl Bosch               | Surescan                |
| 9:40 AM                  | <b>Break</b>   |                          |                         |
| 10:05 AM                 | Multi-Energy X-Ray Detection<br>Applied to Liquid and Solid<br>Explosives                    | Tim Rayner               | Multix                  |
| 10:35 AM                 | Metal Artifact Correction<br>Methods for Liquid CT Scan                                      | Xin Jin                  | Nuctech                 |
| 10:55 AM                 | Checkpoint Technology Enabling<br>Effective Screening of Bottles and<br>Portable Electronics | Pablo Prado              | One Resonance Sensors   |
| 11:25 AM                 | Standoff Trace Detection   | Christian Pfluegl        | EOS Photonics           |
| <b>Algorithms</b>        |  |                          |                         |
| 11:40 AM                 | X-Ray Simulation Tools   | Taly Gilat-Schmidt       | Marquette University    |
| 12:00 PM                 | MMW Reconstruction   | Jose<br>Martinez-Lorenzo | Northeastern University |



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| <b>Time</b>            | <b>Topic</b>   | <b>Speaker</b>                   | <b>Affiliation</b>                                  |
|------------------------|--|----------------------------------|---|
| 12:30 PM               | <b>Lunch</b>   |                                  |   |
| 1:20 PM                | Object Composition Identification via Mediated-Reality Supplemented Radiographs                          | Ed Jimenez                       | Sandia National Laboratories                        |
| 1:40 PM                | Simulating XBS for Personnel Screening & Handheld X-Ray Backscatter Imaging                              | Dan-Cristian Dinca               | AS&E  |
| <b>Assessing Risk</b>  |  |                                  |   |
| 2:00 PM                | Finding a Needle in a Haystack: Toward a Psychologically Informed Method for Aviation Security Screening | Thomas Ormerod<br>Coral J. Dando | University of Sussex<br>University of Wolverhampton |
| 2:30 PM                | Applications of Conversational Game Theory to Aviation Security  | Vicki Bier                       | University of Wisconsin-Madison                     |
| <b>Next Steps</b>      |  |                                  |   |
| 3:00 PM                | Summary and Next Steps   | Harry Martz<br>Carl Crawford     | Lawrence Livermore National Laboratory<br>Csuptwo   |
| <b>Closing Remarks</b> |  |                                  |   |
| 4:20 PM                | Closing Remarks  | Michael Silevitch                | Northeastern University /ALERT                      |
| 4:25 PM                | Closing Remarks  | Laura Parker                     | Department of Homeland Security                     |
| 4:30 PM                | <b>Adjourn</b>   | Carl Crawford                    | Csuptwo   |