# AGENDA

**Tuesday, May 10th, 2016 – Day 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Check-in/Breakfast</td>
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<tr>
<td>8:30 AM</td>
<td>Welcoming Remarks – ALERT</td>
<td>Michael Silevitch</td>
<td>Northeastern University / ALERT</td>
</tr>
<tr>
<td>8:35 AM</td>
<td>Welcoming Remarks – DHS</td>
<td>Laura Parker</td>
<td>Department of Homeland Security</td>
</tr>
<tr>
<td>8:40 AM</td>
<td>Setting the Stage</td>
<td>Carl Crawford</td>
<td>Csuptwo, LLC</td>
</tr>
<tr>
<td>8:50 AM</td>
<td><strong>Aviation Checkpoint of the Future – Government Perspective</strong></td>
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<tr>
<td>8:50 AM</td>
<td>APEX Screening at Speed Initiative (Aviation Checkpoint of the Future)</td>
<td>John Fortune</td>
<td>Department of Homeland Security</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>Functionality Needs in Transportation Security Systems</td>
<td>Douglas MacIvor</td>
<td>Transportation Security Administration</td>
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<tr>
<td>9:40 AM</td>
<td>TSA perspectives - Q&amp;A</td>
<td>Frank Cartwright</td>
<td>Transportation Security Administration</td>
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<tr>
<td>10:05 AM</td>
<td>How to Say That We Need a Tangerine Detector?</td>
<td>Matthew Merzbacher</td>
<td>Morpho Detection, LLC</td>
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<tr>
<td>10:20</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:50 AM</td>
<td>Enhanced Detection of Weapons and Explosives Through X-Ray Phase-</td>
<td>Alessandro Olivo</td>
<td>University College London</td>
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<tr>
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<td>Contrast and Dark-field Imaging</td>
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<tr>
<td>11:15 AM</td>
<td>Gratings-Based Phase Contrast X-Ray Imaging for Explosives Detection</td>
<td>Erin Miller</td>
<td>Pacific Northwest National Laboratory</td>
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<tr>
<td>Time</td>
<td>Topic</td>
<td>Speaker</td>
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<tr>
<td>11:40 AM</td>
<td>Lunch</td>
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<tr>
<td>12:30 PM</td>
<td>Halo’s Work on X-Ray Diffraction</td>
<td>Simon Godber</td>
<td>Halo X-Ray Technologies Ltd.</td>
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<tr>
<td>12:55 PM</td>
<td>X-Ray Body Scanners with Fused Backscatter and Transmission Imaging</td>
<td>Steve Smith</td>
<td>Tek84 Engineering Group</td>
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<tr>
<td>1:20 PM</td>
<td>OD’s Products and the Barriers to Using Transmission X-Rays at the Checkpoint</td>
<td>Jan Steven van Wingerden, John Shannon</td>
<td>OD Security, OD Security North America</td>
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<tr>
<td>1:45 PM</td>
<td>XinRay’s Checkpoint Scanner</td>
<td>Brian Gonzales</td>
<td>XinRay Systems</td>
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**Video and Large Data**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Affiliation</th>
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</thead>
<tbody>
<tr>
<td>2:10 PM</td>
<td>PFA Reduction</td>
<td>Ron Molway</td>
<td>Transportation Security Administration</td>
</tr>
<tr>
<td>2:35 PM</td>
<td>Designing the Next Generation Check-Point with Data</td>
<td>Deeph Chana</td>
<td>Imperial College London</td>
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<tr>
<td>3:00 PM</td>
<td>Active Learning and Video Tracking</td>
<td>Avi Kak</td>
<td>Purdue University</td>
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**Detection Standards**

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<th>Topic</th>
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<th>Affiliation</th>
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<tr>
<td>3:25 PM</td>
<td>Evolution of Certification Criteria</td>
<td>Fred Roder</td>
<td>Consultant</td>
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<tr>
<td>3:50 PM</td>
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**Standards and Development Platforms**

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<tbody>
<tr>
<td>4:20 PM</td>
<td>Open Threat Assessment Platform</td>
<td>Andrew Cox</td>
<td>Sandia National Laboratories</td>
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<tr>
<td>4:45 PM</td>
<td>Lessons Learned During the Development and Deployment of DICOM</td>
<td>Oleg Pianykh</td>
<td>Harvard Medical School</td>
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<tr>
<td>5:10 PM</td>
<td>What Can Happen When Subsystems are Fused?</td>
<td>Kevin Johnson</td>
<td>U.S. Naval Research Laboratory</td>
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<tr>
<td>5:35 PM</td>
<td>System Readiness Level</td>
<td>Brian Sauser</td>
<td>University of North Texas</td>
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<tr>
<td>6:00 PM</td>
<td>Adjourn</td>
<td>Carl Crawford</td>
<td>Csuptwo, LLC</td>
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## AGENDA

**Wednesday, May 11\(^{th}\), 2016 – Day 2**

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<tr>
<td>7:30 AM</td>
<td>Check-in/Breakfast</td>
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<tr>
<td></td>
<td></td>
<td><strong>Introduction</strong></td>
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<tr>
<td>8:00 AM</td>
<td>Call to Order &amp; ADSA15 Discussion</td>
<td>Carl Crawford</td>
<td>Csuptwo, LLC</td>
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<tr>
<td>8:10 AM</td>
<td>MMW AIT Improvements</td>
<td>Barry Smith</td>
<td>DHS, Transportation Security Laboratory</td>
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<tr>
<td>8:35 AM</td>
<td>XP-DITE: An Integrated, Outcome-Focused, System-Level Approach for Aviation Security Checkpoint Design and Evaluation</td>
<td>Mike Kemp</td>
<td>Iconal Technology Ltd., UK</td>
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<tr>
<td>9:00 AM</td>
<td>Smiths Mm-Wave Person Imager</td>
<td>Martin Hartick</td>
<td>Smiths Detection</td>
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<td>9:20 AM</td>
<td>Stand-Off Threat Detection Using Active MMW</td>
<td>Ed Godere</td>
<td>Radio Physics</td>
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<tr>
<td>9:25 AM</td>
<td>Working with TSL</td>
<td>Brian Krenzien</td>
<td>DHS, Transportation Security Laboratory</td>
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<td>9:50 AM</td>
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<tr>
<td>10:20 AM</td>
<td>Stand-Off Trace Detection</td>
<td>Robert Furstenberg</td>
<td>U.S. Naval Research Laboratory</td>
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<tr>
<td>10:45 AM</td>
<td>AN Detection with MS</td>
<td>Susan Rose-Pehrsson</td>
<td>U.S. Naval Research Laboratory</td>
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<tr>
<td>11:10 AM</td>
<td>Chemical Sensing of Explosives</td>
<td>Otto Gregory</td>
<td>University of Rhode Island</td>
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<tr>
<td>11:35 AM</td>
<td>Multispectral Imaging of Concealed Explosives</td>
<td>James Kane</td>
<td>Polestar</td>
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</tbody>
</table>
## Awareness and Localization of Explosives-Related Threats (ALERT)

*A Department of Homeland Security Center of Excellence*

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<tbody>
<tr>
<td></td>
<td><strong>Emerging Algorithms</strong></td>
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<td>12:00 PM</td>
<td>Automatic Object Classification for 2D X-Ray and 3D CT</td>
<td>Toby Breckon</td>
<td>Durham University, UK</td>
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<tr>
<td>12:25 PM</td>
<td>Partially Occluded Weapons Identification Through Partonomy</td>
<td>Nikolay Metodiev Sirakov</td>
<td>Texas A &amp; M University - Commerce</td>
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<tr>
<td>12:50 PM</td>
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<td></td>
<td><strong>Humans in the Loop</strong></td>
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<tr>
<td>1:20 PM</td>
<td>How Will Humans in the Loop Do at Detecting Tangerines?</td>
<td>Matthew Merzbacher</td>
<td>Morpho Detection, LLC</td>
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<tr>
<td>1:30 PM</td>
<td>Improvements in Behavioral Detection with Engagement</td>
<td>Carl Maccario</td>
<td>Center of Nonverbal Communication</td>
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<td>1:55 PM</td>
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<td>2:35 PM</td>
<td>Improving Performance of Human Operators</td>
<td>Stephen Mitroff</td>
<td>George Washington University</td>
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<td><strong>Next Steps</strong></td>
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<td>2:50 PM</td>
<td>Summary and Next Steps</td>
<td>Carl Crawford</td>
<td>Csuptwo, LLC</td>
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<td>Suriyun Whitehead</td>
<td>Booz Allen Hamilton</td>
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<td><strong>Closing Remarks</strong></td>
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<td>3:50 PM</td>
<td>Closing Remarks</td>
<td>Michael Silevitch</td>
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