



Awareness and Localization of Explosives-Related Threats (ALERT)

A Department of Homeland Security Center of Excellence

Advanced Development for Security Applications (ADSA) Workshop 13: Screening of Personnel and Divested Items at the Checkpoint – Part II

October 28-29, 2015

Raytheon Amphitheater (Room 240), Egan Research Center (Day 1)

Ballroom, Curry Student Center (Day 2)

Northeastern University, Boston, MA

AGENDA

Wednesday, October 28th, 2015 – Day 1

| Time | Topic | Speaker | Affiliation |
|---|---|----------------------------------|------------------------------------|
| 8:00 AM | Check-in and Breakfast | | |
| 9:00 AM | Welcoming Remarks - ALERT | Michael Silevitch | ALERT / Northeastern University |
| 9:05 AM | Welcoming Remarks - DHS | Laura Parker | Department of Homeland Security |
| 9:10 AM | Setting the Stage | Carl Crawford | Csuptwo |
| DHS APEX Program – Aviation Checkpoint of the Future | | | |
| 9:30 AM | Program Overview | Kumar Babu | Department of Homeland Security |
| 9:50 AM | Open Discussion | | |
| 10:35 AM | Break | | |
| Video Analytics | | | |
| 11:05 AM | Tracking Passengers and Divested Items | Srikrishna Karanam Rich Radke | Rensselaer Polytechnic Institute |
| 11:25 AM | Tracking and Pose Estimation | Henry Medeiros | Marquette University |
| 11:40 AM | Open Discussion | | |
| 11:55 AM | Lunch | | |
| Assessing and Using Risk | | | |
| 12:45 PM | Risk Based Security Strategy in Aviation Security | Rafi Ron | New Age Security Solutions |
| 1:15 PM | Validating Models of Adversary Behaviors | Jun Zhuang | University at Buffalo |
| 1:40 PM | Game Theory - A Third Party Perspective | Jun Zhang | University of Wisconsin, Milwaukee |



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1:55 PM Open Discussion

Miscellaneous Topics

2:30 PM Can X-Ray Backscatter be Redeployed? Harry Martz Lawrence Livermore National Laboratory

2:45 PM Advanced Material Discrimination Amit Ashok University of Arizona
Mark Neifeld

3:10 PM Throughput and Financial Considerations Amir Neeman Amir Neeman Consulting

3:35 PM Open Discussion

3:50 PM **Break**

Standards

4:20 PM DICOS: Necessary or Sufficient? Suriyun Whitehead Booz Allen Hamilton

4:35 PM Development of Standards Harry Massey National Electrical Manufacturers Association (NEMA)

4:55 PM Open Discussion

Trace Detection

5:15 PM Advances in Trace Detection Laura Parker Department of Homeland Security

5:25 PM Advances in Trace Detection Richard Lareau Transportation Security Laboratory

5:35 PM Open Discussion

6:00 PM **Adjourn**



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AGENDA

Thursday, October 29th, 2015 – Day 2

| Time | Topic | Speaker | Affiliation |
|---|---|----------------------------------|---|
| 7:30 AM | Check-in and Breakfast | | |
| 8:00 AM | ADSA14 Discussion | Carl Crawford | Csuptwo |
| Fusion | | | |
| 8:10 AM | Review of Previous ADSAs Addressing Fusion | Harry Martz | Lawrence Livermore National Laboratory |
| 8:30 AM | ATRs with Analog Outputs - Developing and Testing | Sondre Skatter | Morpho Detection |
| 8:45 AM | Open Discussion | | |
| 9:20 AM | Break | | |
| Emerging Algorithms and Hardware | | | |
| 9:50 AM | Terahertz Inspection - Advances | Eran Gabbai | Terasafe |
| 10:10 AM | XRD CZT Technology for Checkpoint Screening | Kris Iniewski | Redlen |
| 10:20 AM | Image Super Resolution | Jun Zhang | University of Wisconsin, Milwaukee |
| 10:35 AM | Iterative CT Reconstruction- Reduced Computational Complexity | Charles Bouman Sherman Kisner | Purdue University High Performance Imaging |
| 10:45 AM | Open Discussion | | |
| Automated Threat Detection | | | |
| 11:05 AM | What Needs to be Fixed? | Carl Crawford | Csuptwo |



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|----------|--|--------------------|-------------------------|
| 11:15 AM | Reducing the Time for Deploying New ATRs | Matthew Merzbacher | Morpho Detection |
| 11:35 AM | Preventing False Discovery in Adaptive Data Analysis | Jonathan Ullman | Northeastern University |
| 12:05 PM | Open Discussion | | |
| 12:25 PM | Lunch | | |

Third Party Involvement

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|---------|--|------------------------------------|--|
| 1:15 PM | Working with third parties | Carl Crawford | Csuptwo |
| 1:25 PM | TSA's perspective on third party involvement in the development of advanced security equipment | Frank Cartwright | Transportation Security Administration |
| 1:40 PM | Third party perspective on third party involvement | Chad Johnson | TeleSecurity Sciences |
| 1:50 PM | Vendor perspective on third party involvement | Piero Landolfi | Morpho Detection |
| 2:00 PM | Vendor perspective on third party involvement | David Schafer Sergey Simanovsky | Analogic |
| 2:10 PM | Third party involvement with ALERT | John Beaty | Northeastern University |
| 2:20 PM | Safety Act | Andrea Schultz | Department of Homeland Security |
| 2:40 PM | Open discussion | | |

Next Steps

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|---------|------------------------|------------------------------|---|
| 3:00 PM | Summary and Next Steps | Harry Martz Carl Crawford | Lawrence Livermore National Laboratory Csuptwo |
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Closing Remarks

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|---------|-----------------|-------------------|---------------------------------|
| 3:50 PM | Closing Remarks | Michael Silevitch | Northeastern University /ALERT |
| 3:55 PM | Closing Remarks | Laura Parker | Department of Homeland Security |
| 4:00 PM | Adjourn | Carl Crawford | Csuptwo |