Trace Explosives Sampling for Security Applications (TESSA) Workshop Series 02: Fundamentals and Advances in Trace Sampling and Detection

August 5, 2015
Raytheon (Room 240), Egan Research Center, Northeastern University
Boston, Massachusetts

AGENDA

Wednesday, August 5, 2015

8:00 - 8:30 AM  Check-In and Breakfast

8:30 - 8:35 AM  Welcome and Introduction by ALERT
Prof. Michael Silevitch, Northeastern University

8:35 – 8:40 AM  Welcome and Introduction by DHS
Laura Parker
Department of Homeland Security

8:40 – 8:50 AM  Overview, Goals and Scope
Prof. Steve Beaudoin, Purdue University

MODULE I: Creating Explosives Residues

8:50 – 9:20 AM  Dry Transfer of Explosives
Richard Lareau, Department of Homeland Security

9:20 – 9:50 AM  Inkjet Printing of Explosives
Greg Gillen
NIST

9:50 – 10:20 AM  Synthetic Thumb for Residue Creation
Matt Brookes
DSTL

10:20 – 10:45 AM  Break

MODULE II: Fundamentals for Residue Detection

10:45 - 11:15 AM  Dynamics of Explosives Residues
Melissa Sweat
Purdue University

11:15 - 11:45 AM  Forces and Mechanics of Contact Sampling
Steve Beaudoin
Purdue University

11:45 - 12:15 PM  Describing Roughness during Contact Sampling
Leonid Miroshnik
Purdue University

12:15 – 1:15 PM  Lunch
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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>1:15 – 1:45 PM</td>
<td>Pressure/Force Sensitive Sensing</td>
<td>Matt Staymates</td>
<td>NIST</td>
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<td>1:45 – 2:15 PM</td>
<td>Open Source Crockmeter</td>
<td>Dave Atkinson</td>
<td>PNNL</td>
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<td>2:15 – 2:45 PM</td>
<td><strong>Break</strong></td>
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<td>2:45 – 3:15 PM</td>
<td>Acoustic Insults of Explosives for Vapor Creation</td>
<td>Jeff Rhoads and Steve Beaudoin</td>
<td>Purdue University</td>
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<td>3:15 – 3:45 PM</td>
<td>Orthogonal Sensors for Residue Vapors</td>
<td>Otto Gregory</td>
<td>University of Rhode Island</td>
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<td>3:45 – 4:15 PM</td>
<td>Fluorescence-Based Sensing of Residues</td>
<td>Bill Euler</td>
<td>University of Rhode Island</td>
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<td>4:15 – 5:00 PM</td>
<td><strong>Reception</strong></td>
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