

## Fifth Annual Department of Homeland Security Student Day

Last updated 3/9/11

<b>Tuesday, March 29, 2011</b>	
8:00am- 8:20am	<p><b>Welcome and Student Day Overview</b> Stephanie Willett, Director of Education, Office of University Programs</p>
8:20am -9:20am	<p><b>Panel 1: Aviation Security</b></p> <ul style="list-style-type: none"> <li>• Aaron Elkins, University of Arizona, Vocal Analysis Software for Rapid Security Screening: Validity and Credibility Assessment Potential</li> <li>• Shelly McArdle, University of Southern California, National responses to September 11 over time; Analyzing changes in Emotions, Behaviors, and Beliefs</li> <li>• Limor Eger, Boston University, Study of Material Discrimination Using Multi-Energy X-Ray Computed Tomography for Explosives Detection</li> <li>• Zachary Sun, Boston University, A Non-Rotational Approach to Computer Tomography</li> <li>• Ziyang Wu, Rensselaer Polytechnic Institute, Full- Scale Airport Security Checkpoint Surveillance using a Camera Network</li> </ul> <p>Moderator: Charles Sitkoff, Program Coordinator, DHS S&amp;T Office of University Programs</p>
9:20am – 9:40am	<p><b>Greenfield Aviation Security</b></p> <ul style="list-style-type: none"> <li>• Aaron Elkins, University of Arizona</li> <li>• Christopher Lawless, University of Edinburgh</li> </ul>
9:45am- 11:20am	<p><b>Career Fair</b></p> <ul style="list-style-type: none"> <li>• Science &amp; Technology Directorate Human Capital Office</li> <li>• United States Secret Service</li> <li>• Transportation Security Administration</li> <li>• Homeland Security Studies and Analysis Institute</li> <li>• United States Coast Guard Research and Development Center</li> <li>• Chemical Security Analysis Center</li> <li>• National Biodefense Analysis and Countermeasures Center</li> <li>• Pacific Northwest National Laboratory</li> <li>• Los Alamos National Laboratory</li> <li>• The National Urban Security Technology Laboratory</li> <li>• Lawrence Livermore National Laboratory</li> <li>• Idaho National Laboratory</li> <li>• Transportation Security Laboratory</li> </ul>
11:20am – 12:20pm	<p><b>Panel 2: Maritime Security</b></p> <ul style="list-style-type: none"> <li>• Talmor Meir, Stevens Institute of Technology, Decisions learning algorithm for acoustic vessel classification</li> <li>• Angelica Sogor, University of Miami, Aiding in the Prevention of Terrorist Attacks in the Hudson River Through Detection of Small Vessels with UHF Radar</li> <li>• Abish Malik, Purdue University, Coast Guard Search and Rescue Visual Analysis</li> <li>• Jessica Spicer, University of Arkansas, Mitigating Risk in Multi-Modal Perishable Commodity Supply Chain Networks</li> <li>• Andreas Graber, University of Miami, A study of Small Vessel Threats using Acoustic and Electro-optic Technologies</li> </ul> <p>Moderator: Andrew Welch, University Programs Branch, United States Coast Guard Auxiliary</p>

12:20pm-1:30pm	<b>Lunch</b>
1:30pm-2:30pm	<p><b>Panel 3: Surface Transportation Security</b></p> <ul style="list-style-type: none"> <li>• Thomas Montz, Louisiana State University, Integration of Household Decisions Making with dynamic Transportation Modeling to Evaluate Hurricane Evacuation</li> <li>• Yu Zhang, Georgia Institute of Technology, Consequence Assessment for Complex Food Transportation System Facing Catastrophic Disruptions</li> <li>• Brent Meins, New Mexico Institute of Mining and Technology, Novel Structural Control for Multi-Hazard Protection</li> <li>• Lance Fiondella, University of Connecticut, Optimal Deployment and Protection of High-Speed Rail</li> <li>• Qixing Wang, University of Connecticut, A Many to Many Game Theory Approach to Measuring Transportation Network Vulnerability</li> </ul> <p>Moderator: Thomas Kowalczyk, DHS S&amp;T Office of University Programs</p>
2:40pm-3:40pm	<p><b>Panel 4: Surface Transportation Security</b></p> <ul style="list-style-type: none"> <li>• Latisha Clark, Texas Southern University, Analysis of Hazardous Material Incidents in the Gulf Coast Region: A Case Study of Houston, Texas</li> <li>• Adel Elsaid, North Carolina State University, Vibration Based Damage Detection of Scour in Coastal Bridges</li> <li>• Cary Caruso, North Carolina State University, In Situ Device for Assessment of scour potential of non-cohesive sediments at depth</li> <li>• Joseph Holland, Mississippi State University, Disruptions to Rail-Impact Analysis and Decision Support (DRIADS)</li> <li>• Mahdi Khalilzad, North Carolina State University, Deformation-Based Limit States for Earth Embankments</li> </ul> <p>Moderator: Justin Yates, Assistant Professor, Industrial and Systems Engineering, Texas A&amp;M University</p>
3:40pm-3:55pm	<b>Break</b>
3:55 pm – 5:00 pm	<p><b>Panel 5: Multi- modal Transportation Security</b></p> <ul style="list-style-type: none"> <li>• Nathan Twyman, University of Arizona, Non-invasive Screening for Concealed Information</li> <li>• Shehzad Afzal, Purdue University, Visual Analytics Decision Support Environment for Epidemic Modeling and Response Evaluation</li> <li>• Burak Cavdaroglu, Rensselaer Polytechnic Institute, MUNICIPAL: A Decision Technology to Support Mitigation, Response, and Restoration Decisions</li> <li>• Chen Wang, University of Wisconsin-Madison, Optimal Defensive Resource Allocations in the Face of Uncertain Terrorist Preferences with Emphasis on Transportation</li> <li>• Hugh Medal, University of Arkansas, Infrastructure Protection and Prepositioning of Supplies for Disaster Relief</li> <li>• Brian Piper, North Carolina State University, Decision Modeling for Optimizing Investments in Transportation Infrastructure Systems Vulnerable to Natural Hazards</li> </ul> <p>Moderator: Stephanie Willett, Director of Education, DHS S&amp;T Office of University Programs</p>
5:00 pm – 5:30 pm	<b>Closing Remarks</b>
5:30pm-6:00pm	<b>Poster Setup</b>