Stevens researchers host Physical and Social Infrastructure Resiliecy Workshop.

Dr. Thomas Wakeman III, research professor and deputy director of the Davidson Laboratory, and Dr. Jon Miller, research assistant professor, recently convened a Physical and Social Infrastructure Resiliecy Workshop as part of an on-going coastal infrastructure resiliency study entitled *Port Resilience: Overcoming Threats to Maritime Infrastructure and Operational Activities from Climate Change*. The research is sponsored by the University Transportation Research Center (UTRC), Region 2, with funding from the U.S. Department of Transportation. The objectives of the workshop were to discuss the resiliency attributes of physical and social infrastructures, to document activities that strengthen this relationship, and to increase the effectiveness of decision makers during incident response and recovery from natural and man-made disruptions.

The workshop included two panels and facilitated working groups. The speakers included: John Headland (Headland & Associates); Roy Messaros (USACE); Greg Biesiadecki (Langan); Joseph Picciano (NJ OHS&P); Naomi Fraenkel (USACE NAD); Vicky Cross Kelly (Parsons Brinkerhoff); and Roland Lewis (Waterfront Alliance). The facilitators for the working groups were: William Rouse, Alexander Crombie Humphreys Professor, School of Systems & Enterprises, and Alexandros Washburn, director, Stevens Center for Coastal Resilience and Urban eXcellence (CRUX).

Outcomes from the one-day workshop will be made available following review and publication by the UTRC.

Students in Stevens new Nuclear Terrorism and Security course visit NUSTL and CBP for hands-on demonstrations.

Student participants in Dr. Julie Pullen’s Nuclear Terrorism and Security course at Stevens Institute of Technology, had the unique opportunity to attend field-visits to the National Urban Security Technology Laboratory (NUSTL) and to the Customs and Border Protection (CBP) Tactical Operations Division at the Port of New York/Newark. The objective of the site visits were to expose the course participants to a range of activities and technologies being employed by Department of Homeland Security component agencies to prevent, prepare for and respond to radiological and nuclear events.

During the visit to NUSTL, the students met with nuclear physicists and scientists for a hands-on show and tell of the Laboratory’s radiation detection equipment, including hand-held detectors and neutron detectors.

In a separate site-visit to the Port of New York/Newark, students in the Nuclear Terrorism and Security course toured CBP’s Office of Field Operations facilities and received hands-on demonstrations by CBP Officers of radiation portal monitoring primary and secondary screening. CBP Laboratory and Scientific Services (LSS) also presented detection equipment to the visiting students.

The port security-focused course helps prepare students to work in areas related to nuclear security and to learn key concepts in incident preparedness, response and recovery.
Chilean researchers discuss Maritime Domain Awareness and Chile’s efforts to detect illegal fishing in CSR Seminar Series.

Dr. Werner Creixell, Universidad Técnica Federico Santa María and Dr. Takeshi Asahi, Universidad de Chile, recently met with CSR researchers at Stevens Institute of Technology as part of an international networking exchange program facilitated by Chile’s National Commission for Scientific and Technological Research (CONICYT). The objective of the program is to establish international relationships and research collaborations between Chilean national science and technology centers and leading research organizations in America, Asia, Europe and Oceania.

During their visit, Dr. Creixell provided a seminar focused on Chile’s efforts to detect and track illegal fishing activities along the nation’s expansive coast line using satellite imagery and beacon systems, and Dr. Ashai discussed the use of variational methods, e.g., mathematical tools and algorithms to filter satellite images to automatically detect and identify objects.

Leveraging the COINICYT international networking exchange program, the researchers will collaborate with the CSR to advance Chile’s Maritime Domain Awareness capabilities and to facilitate opportunities for student and faculty exchange in the Center’s Summer Research Institute.

The coastal border of Chile represents one of the world’s widest Exclusive Economic Zones (EEZ), creating unique challenges for Maritime Domain Awareness and coastal monitoring.

pimage: [http://education.randmcnally.com](http://education.randmcnally.com)