MIREES Directors provide briefings at co-hosted NATO-DHS Information Exchange Workshop on Maritime Security at Quantico. Drs. Julie Pullen, Director CSR, and Margo Edwards, Director CIMES, provided briefings to members of the NATO Supreme Allied Command Transformation (ACT), the NATO Centre for Maritime Research and Experimentation (CMRE) and DHS S&T at the Marine Corps Base Quantico in Virginia, on April 25, 2013. The purpose of the Information Exchange Workshop was to explore potential NATO-DHS collaboration in maritime security and other areas of mutual concern. Drs. Pullen and Edwards participated in the workshop as lead authority’s from DHS S&T’s Center of Excellence for Port and Maritime Security.

Dr. Pullen’s briefing highlighted CSR’s port security initiatives and Dr. Edward’s discussed CIMES on-going activities in the Arctic. Additional briefings included talks on “Best practices for integrating waterside security, from an international perspective” and “North American maritime security information sharing challenges and opportunities - a NORAD Perspective”.

Stevens Center for Maritime Systems first to provide current monitoring data into NOAA’s PORTS® system. The Center for Maritime Systems at Stevens Institute of Technology has partnered with the National Oceanic and Atmospheric Administration (NOAA) to monitor critical waterway activities in the New York Harbor. A new current meter, operated by Stevens and developed by Dr. Thomas Herrington, Associate Research Professor, will provide enhanced real-time information to mariners traveling halfway between the Verrazano Narrows Bridge and Manhattan, the primary navigation route into New York and New Jersey ports. The sensor’s data will be used in NOAA’s Physical Oceanographic Real-Time System (PORTS®) system, which delivers real-time environmental observations, forecasts and other geospatial information to mariners in 21 major U.S. harbors. The system makes maritime commerce more safe and efficient by giving ship captains instant measurements of the water levels and temperatures, and the direction and speed of the current and wind as they come in and out of port.

Stevens is a partner in the NOAA-led U.S. Integrated Ocean Observing System (IOOS®), and is the first academic partner to have its research data incorporated into the NOAA real-time PORTS program. NOAA’s PORTS program helps reduce the chances for accidents. Also, enhanced marine information can increase the amount of cargo moved through a port and harbor by enabling mariners to safely use every inch of dredged channel depth. For additional information about the new CMS current monitoring data, please visit the following weblink: [CMS - NOAA PORTS® Press Release](#).

Dr. Kevin Montgomery, CIMES research partner, awarded “Entrepreneur of the Year” at 2013 Future In Review conference. Dr. Kevin Montgomery, CEO, Intelesense Technologies, was recognized as Entrepreneur of the Year at the 2013 Future In Review Conference, hosted by the Strategic News Service. Dr. Montgomery received the award for his development of [Collaborate.org](#), a geospatial social platform designed to enhance collaboration between industry, government and academia.

The concept for Collaborate.org came from Dr. Montgomery's broad range of interactions with industry, government and academia. Recognizing that these diverse entities shared common themes, including the need to access and integrate data from disparate sources, the need to easily and quickly retrieve reliable data, and the need to collaborate across organizational boundaries,
Dr. Hugh Roarty, Rutgers University, delivers HF Radar Software Workshop for UPRM, CariCoos, and Puerto Rico Seismic Network representatives. High frequency radar (HFR) allows monitoring and visualization of near coastal ocean currents and waves as well as ship tracking. A hands-on informal course on processing and visualization of CODAR ® HFR data was held at the Field Station of the University of Puerto Rico’s Department of Marine Sciences in La Parguera, Puerto Rico May 29-31. Dr. Hugh Roarty of Rutgers University's Coastal Ocean Observing Laboratory, a recognized authority on HF Radar operation, travelled to Puerto Rico to serve as course instructor. Eleven students, professors and technicians associated with the UPRM CSR group, the Caribbean Coastal Ocean Observing System (CariCOOS) and the Puerto Rico Seismic Network participated in the 3-day course gaining proficiency in system operation, generation of radial and total files, surface current field visualization and virtual particle trajectory generation. In addition to CSR and CariCOOS support, this joint initiative received support from MARACOOS, the Mid-Atlantic Regional Association Coastal Ocean Observing System. The UPRM NOAA Center for Atmospheric Science (NCAS) hosted the activity at the Bio-optical Oceanography Laboratory providing computer facilities for use by participants.

Additional MIREES Center News:

Dr. Julie Pullen gives a talk at IDGA’s Maritime Homeland Security Summit, in Baltimore, MD on May 1, 2013. Dr. Pullen, Director CSR, offered a talk entitled Technology Development and Transition for Maritime Domain Awareness to participants of the Maritime Homeland Security Summit. The theme of the Summit was “Building Partnerships to Address Key Challenges in Maritime Domain Awareness and Security”. Other presenters at the Summit included representatives from the National Maritime Intelligence-Integration Office, the USCG Office of Law Enforcement and USCG Sector Baltimore.

Dr. Margo Edwards, presents CIMES research at European Union meeting including NATO CMRE representatives. Dr. Edwards recently attended an EU meeting in Portugal entitled Oceans: Challenges and Opportunities. Meeting participants included an international audience of maritime stakeholders and members of NATO’s Center for Maritime Research and Experimentation (CMRE).

CIMES signs MOU with Battelle. The Center for Island, Maritime and Extreme Environment Security (CIMES) has signed an MOU with Battelle Memorial Institute, a private non-profit science and technology research and development company, to assist in the transition of Dr. Brian Bingham’s Unmanned Port Security Vessel (UPSV) to the field.

CSR to host 13 undergraduate and graduate-level student participants in the 4th annual Summer Research Institute. Thirteen engineering and science students, representing Stevens Institute of Technology, Elizabeth City State University and the University of Puerto Rico-Mayaguez will engage in hands-on maritime security-centric research projects this summer in collaboration with CSR researchers, visiting faculty members and CSR stakeholders. Students will be organized into three research teams focused on Detection Technologies, HF Radar Data Integration and a CBP Trade Facilitation case study. Students will interact directly with CSR stakeholders and attend field visits to the National Urban Security Laboratory (NUSTL), Customs and Border Protection security facilities at Port Newark, and participate in a New Jersey Office of Homeland Security and Preparedness sponsored table top exercise at Maher Terminals in Port Newark. Student participants will be responsible for submitting final research reports and presentations to CSR researchers and invited guests from industry and government.

The Center for Secure and Resilient Maritime Commerce (www.stevens.edu/CSR) is led by Stevens Institute of Technology and The Center for Island, Maritime and Extreme Environment Security (www.cimes.hawaii.edu) is led by the University of Hawaii.

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