Stevens Maritime Systems Fellow teams with CSR, Rutgers, CSTARS and the USCG Auxiliary to conduct multi-sensor vessel detection experiment. Alex Pollara, Stevens Maritime Systems Master’s Degree student and DHS Career Development Grant (CDG) Fellow, under the mentorship of Dr. Barry Bunin, Chief Architect, Maritime Security Laboratory, recently helped coordinate and execute an experiment to demonstrate the potential synergies of three technology groups; satellites, HF radar, and passive acoustics. The experiment was conducted in collaboration with CSR, Stevens Center for Maritime Systems, Rutgers University - Coastal Ocean Observation Laboratory, the University of Miami-CSTARS and members from the USCG Auxiliary. The objective of the experiment was to gather simultaneous data on vessel traffic in the area of Sandy Hook, NJ, using all three sensor technologies. The experiment builds upon work that Alex completed during his summer internship with the USCG Sector New York and CSR's on-going vessel detection and MDA research.

Results from the experiment are still being processed, however, initial assessments show real-time synergies from the combined use of satellites, HF radar and passive acoustic sensors.

NY Times article features ocean observation research being conducted by CSR partners from Rutger's Coastal Ocean Observation Laboratory. The New York Times recently featured an article on Gliderpalooza 2013, an experiment being coordinated by Dr. Scott Glenn, Rutgers University and Managing Director, Mid-Atlantic Regional Association Coastal Ocean Observing System (Maracoos) in partnership with 16 US and Canadian agencies and research teams along the eastern seaboard. The large-scale ocean-surveying experiment includes the deployment of 15 underwater gliders from Nova Scotia to Georgia, with the objective of collecting below the ocean surface data to better understand the Atlantic Ocean. Through the use of the sensor-equipped, battery-powered underwater gliders, researchers are able receive data snapshots of the ocean floor and Northeast Continental Shelf, and gather critical information on deep current water movements, the migration of fish and ocean temperatures, among other important data. Data collected from the gliders will be combined with data from satellites, high-frequency radar, moorings, drifters, and ocean models to create a coastal continental scale data set, which will support a variety of scientific and operational goals. Click the following link to read the NY Times article.

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Visit the Northeastern Regional Association of Coastal and Ocean Observing Systems (NERACOOS) website to follow glider tracks and view data from the Gliderpalooza
Jim Rice, CSR researcher, discusses Port Resilience at the 2013 National Strategic Maritime Risk Stakeholder Meeting. Mr. Jim Rice, Deputy Director, Center for Logistics and Transportation at MIT, discussed strategies for enhanced Port Resilience during a panel discussion moderated by Dr. Julie Pullen, Director, CSR, at the 2013 National Strategic Maritime Risk Stakeholder Meeting. The event was co-hosted by the U.S. Coast Guard and Visual Analytics for Command, Control and Interoperability Environments (VACCINE), a DHS Center of Excellence at Purdue University. The theme of the meeting was Data-Driven Risk-Based Decision Making in the Maritime Domain. The conference agenda included topics related to big data and visualization, the use of strategic risk modeling and analysis for improve Homeland Security practices and policies, and risk assessment frameworks for inland waterways and changing arctic environments. The keynote speaker for the event was Vice Admiral Robert Parker, Commander, Atlantic Area, U.S. Coast Guard.

CSR Summer Research Institute Alumni, Qing Li, attends LRF 2013 Research Collegium in the UK. This past summer, Qing Li, SRI 2010 Alumni and Stevens PhD candidate, together with 23 other competitively selected doctoral and postdoctoral students from 22 countries, participated in the Lloyd's Register Foundation 2013 Research Collegium. The program was held on-campus at the University of Southampton in the UK, and focused on the development of innovative solutions to enhance the sustainability of Global Coastal Eco-Cities. As part of her program requirements, Ms. Li and her teammates explored the use of thermal and mechanical energy from the ocean to provide electricity and water to the small island in the Caribbean Sea off of Colombia. The outcome of Ms. Li's research included a book publication (image to the left) and a promotional video. To learn more about the LRF Research Collegium and Ms. Li's summer research project, please visit the following weblink: Coastal City and Ocean Renewable Energy.

Stevens awards DHS CDG Maritime Systems Fellowship to TAMU-Kingsville student. Nicholas Haliscak, Mechanical Engineering and Homeland Security graduate from the University of Texas, Kingsville, was recently selected to receive a Maritime Systems Master's Degree Fellowship to attend Stevens Institute of Technology starting January 2014. The fellowship is fully-funded through the support of a DHS Career Development Grant. Nick's research interests include unmanned systems and robotics.

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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.