Dr. Hady Salloum assumes leadership of the Maritime Security Center. Dr. Hady Salloum, Research Professor and Associate Dean for Research in Stevens Institute of Technology’s School of Engineering and Science, has assumed leadership of the DHS National Center of Excellence, the Maritime Security Center (MSC), which is led by Stevens.

Dr. Salloum has been actively engaged in maritime security research and project administration at Stevens since the founding of the original DHS national center in maritime security (the Center for Secure and Resilient Maritime Commerce) in 2008. In addition, he has been leading large multidisciplinary research programs related to sensing technologies and collaboration-enabled analytics, for a number of different Federal sponsors and industry partners. Many of these programs have led to the development of impactful intellectual property and transition through commercialization. Concurrent to his role as Director of the Maritime Security Center, Dr. Salloum will continue to serve as the Associate Dean for Research.

Prior to joining Stevens in 2006, Dr. Salloum spent 20 years at Bell Communications Research/Telcordia Technologies (now Ericsson), where he had many positions ranging from Member of the Technical Staff to Vice President. Early in his career at Bell, he developed Systems Requirements for Broadband Access Technologies, including Fiber to the Premises, DSL, and Wi-Max and published over 100 papers in this area, mainly on fiber-to-the-home. He was also active in many national and international standards committees that were responsible for defining SONET/SDH and ATM. Furthermore, Dr. Salloum led the systems engineering team that defined the architecture and requirements for fiber to the premises that are used today by service providers worldwide (e.g., FiOs, U-verse, etc.).

Dr. Julie Pullen, Associate Professor and former Director of the Center for Secure and Resilient Maritime Commerce (CSR), is transitioning her career to assume a tenure-track faculty position in the Civil, Environmental and Ocean Engineering Department at Stevens.

Stevens receives contract to improve the detection of invasive species at U.S. ports of entry. Stevens Institute of Technology researchers have received a $2-million contract from the Department of Homeland Security (DHS) Science and Technology Directorate (S&T) to improve the detection of agricultural threats coming into the U.S. through container shipments. Shipments of containers to the U.S. that contain goods, including rice and other grains can be infested with foreign pests and invasive species, which may pose a serious threat to the U.S. economy.

The contract enables Stevens researchers to investigate the development of specialized methods that improve the detection of invasive species at U.S. ports of entry. For example, using methods that include microwave and acoustic technologies, the researchers believe that a technology-based solution will save time and money, and be more accurate and effective than visual inspections.

The research will be led by Stevens Associate Dean of Research, Dr. Hady Salloum. Mr. David Masters from the DHS S&T Directorate will manage the program, along with other border and maritime security programs. To read the complete Stevens news item, visit: http://www.stevens.edu/news/content/stevens-receives-dhs-contract-detect-invasive-species
6th Annual Maritime Security Summer Research Institute includes diverse group of STEM students. To date, more than 100 undergraduate and graduate-level students from around the nation have participated in the Center’s maritime security-focused summer research program. Held annually during the months of June and July at the Stevens Institute of Technology campus in Hoboken, NJ, the Summer Research Institute (SRI) is designed to expose students to the fields of Maritime and Homeland Security, while engaging them in challenging, hands-on research projects in collaboration with MSC researchers and DHS stakeholders.

This summer’s student cohort includes fifteen students representing the University of Puerto Rico-Mayaguez, University of Colorado-Boulder, Drew University, Brown University, and Stevens Institute of Technology. Student majors include Business Technology, Civil Engineering, Computer Science, Electrical Engineering, International Relations, Maritime Systems, Mechanical Engineering, and Naval Engineering.

The SRI 2015 student research projects include the development of a small, portable passive acoustic system, the integration and synchronization of broadband radar and optical sensors, and the advancement of the Center’s Magello Emergency Response Tool to include oil spill modeling capabilities and data sets for the Caribbean region.

Guest speakers during the month of June included representatives from the Port Authority of NY/NJ, Sandia National Laboratories, and the U.S. Navy. The students also engaged in a tour of Customs and Border Protections (CBP) operational facilities at the Port of New York/Newark.

The students will present their research project outcomes in a formal presentation session being held at the Maritime Security Center on July 23, 2015.

Maritime Systems Fellowship students attend Maritime Simulator Training hosted by NYPD-CTD. Chris Polacco, Tyler Mackanin and Hasan Shahid, Maritime Systems Master’s Degree Fellows at Stevens Institute of Technology, recently attended a three-day maritime simulator training coordinated by the NYPD-Counterterrorism Division.

The training included a familiarization of the agency’s Transas NaviTrainer Pro 5000 maritime simulator software and a seminar on how the tool can be used to train and prepare emergency responders for maritime crisis events.

The students are able to practice what they learned in the training in Center’s Maritime Security Laboratory, which includes the same simulation software utilized by the Counterterrorism Division.

MSC representatives attend Sector NY Area Maritime Security Committee (AMSC) meeting on Cybersecurity in the Maritime Domain. Dr. Hady Salloum, Director MSC, Alex Pollara, Maritime Security Doctoral Fellow, Blaise Linn, Maritime Systems Graduate Assistant, and Beth Austin-DeFares, Director of Education, attended the June 10, 2015 meeting of the Sector NY Area Maritime Security Committee (AMSC), at the Brooklyn Cruise Terminal, located in Brooklyn, NY. The meeting included a talk by Admiral Paul Zukunft, Commandant of the U.S. Coast Guard and a discussion on current and emerging cybersecurity issues in the maritime domain.

Of growing concern to the maritime community, the U.S. Coast Guard recently released its Cyber Strategy to address emerging cyber threats. Attendees at the June 10, AMSC meeting also included representatives from the USCG, NJ OHSP, NYPD-CTD, and NY and other state, local and federal agencies.

Contact the Center at MSC@stevens.edu or visit the Center website at www.stevens.edu/ses/MSC