USCG and CBP to speak at MSC/Stevens hosted Symposium
Captain Jason Tama, USCG Commander Sector New York and Mr. Leon Hayward, Assistant Director, CBP Field Operations, Trade & Cargo Security will discuss port and maritime security threats at the New Jersey Corporate Security Symposium being held at Stevens Institute of Technology on May 23. The event is being conducted as part of the DHS Office of Intelligence and Analysis (I&A) Private Sector Engagement Symposium Series and is expected to draw more than 200 federal, state and local security practitioners from across the maritime, pharmaceutical, energy and homeland security domains among others. The event will be moderated by the Regional Director, Northeast Region, DHS Office of Intelligence and Analysis.

Transportation Resilience Workshop brings together USCG, MARAD, USACE and MSC research investigators
MSC research investigators from Florida Atlantic University (FAU) and affiliate colleagues from the DOT’s Freight Mobility Research Institute (FMRI) at FAU held a workshop focused on strategies and initiatives to enhance supply chain sustainability and transportation system resilience. Workshop presenters and panelists included LCDR Rachel Stryker, CG-FAC, Dr. Frances Bohnsack, USDOT MARAD, Ms. Katherine Chambers, USACE R&D Center, and Lt. Maxwell Walker, USCG and FAU graduate student, among other state and local transportation and port authority representatives. The partnerships and synergies across these agency stakeholders is contributing to the research being conducted by FAU professors Drs. Manhar Dhanak, Evangelos Kaiser and Alka Sapat, and Dr. Scott Parr from Embry-Riddle Aeronautical University to develop a predictive port resilience tool that can be used to assess the water and land-side impacts of hurricanes to regional transportation systems and supply chain networks, and to develop strategies to minimize and mitigate disruptions to these systems. Details on the team’s work can be found on the DHS Centers of Excellence Homeland Security University Programs website at https://www.hsuniversityprograms.org/centers/msc-maritime-security/.

MSC and USCG collaborate to identify research needs
MSC Director has been collaborating with the USCG HQ, representatives from various sectors, and the DHS S&T’s Office of University Programs to develop new research and approaches to USCG concerns. Over the coming weeks, MSC will submit research proposals in conjunction with research investigators from the COE partner institutions to address problems related to USCG missions.

SRI student research projects
MSC has admitted 26 undergraduate and graduate-level students to participate in the Center’s annual maritime security-focused Summer Research Institute. The high-achieving STEM students represent eight US universities, including three Minority Serving Institutions, and 12 engineering, science and
maritime academic disciplines. Over the course of the program, students will work in multidisciplinary teams to conduct research focused on unmanned underwater and surface vehicles, an analysis of vessel tracking databases for vessel traffic anomalies, unmanned aerial systems applications in maritime safety and security operations, and maritime risk assessment and management.

Students will participate in field-visits to CBP port and laboratory facilities and will attend guest lectures by USCG Research and Development Center personnel and other relevant DHS stakeholders. Student research outcomes will be made available on the MSC website at https://www.stevens.edu/SummerResearchInstitute.

**MSI STEM Educators learn about USCG SAROPS and receive Fundamentals of Sensing Technologies curriculum materials in MSC Workshop**

The MSC, in collaboration with Stevens Institute of Technology’s Accessing Careers in Engineering and Science (ACES) held a Fundamentals of Sensing Technologies workshop tailored to high school and higher education STEM educators from underserved and underrepresented schools in the New York/New Jersey metro area. The workshop provided instruction on sensing technologies and their applications to maritime safety and security. The workshop featured a presentation by LTJG Alexander Kloo, Command Duty Officer, USCG Sector New York who discussed the Coast Guard’s Search and Rescue Optimal Planning System (SAROPS) and the range of environmental data that is taken into consideration to efficiently and effectively locate distressed swimmers and boaters in the water. The participants also learned how to build a temperature sensor and were provided with a sequence of curriculum materials that can be incorporated into their classrooms and existing STEM curriculums. Copies of these materials can be found on the MSC website at https://www.stevens.edu/STEM%20Educators%20Workshop.

The MSC will also host a student-focused version of the workshop later this month for high school STEM students at Paterson Charter School for Science and Technology in Paterson, NJ.

**COE Summit - July 31 to August 1, 2019 hosted by George Mason University**

The Maritime Security Center stakeholders are invited to attend the DHS Centers of Excellence (COE) Summit to be held July 31 - August 1, 2019, at the George Mason University in Arlington, VA. The Summit will feature panel discussions and presentations on the latest in COE research and student projects. The theme of this year’s Summit is Homeland Security Challenges: Evolving Threats and Dynamic Solutions. You can visit the Summit website at https://cina.gmu.edu/coe-summit-2019/ to register and learn more.