Patent Awarded to MSC Maritime Cyber Security Project. MSC research partners from the American Bureau of Shipping (ABS) have received a patent for the development of a new method for quantifying and reducing cyber risk. The FCI Cyber Risk™ Model was developed as part of a 2016 Maritime Cyber Security research project aimed at identifying risk-based performance standards for the Marine Transportation System (MTS) and a multi-node analysis of the critical points of failure with the cyber system supporting the MTS. The new Cyber Risk Model allows maritime industry end-users to identify which systems within their enterprise present the highest risk in order to better prioritize mitigation strategies. The Cyber Risk patent is among the first in the industry. A copy of the ABS final project report can be found on the MSC website at https://www.stevens.edu/research-entrepreneurship/research-centers-labs/maritime-security-center/reports-publications. To review a copy of the ABS press release visit: https://news.cision.com/american-bureau-of-shipping/r/abs-fci-cyber-risk--model-receives-patent-for-innovative-solution,c3218615

Marine Safety Personnel from Sector Sault St. Marie to Sector San Juan Attend MSC's Maritime Cyber Security Course. MSC held a Maritime Cyber Security Professional Development pilot course for an audience of 13 marine safety personnel representing nine units from five different USCG Districts, including Sector New York, Sector Delaware Bay, Sector Maryland/National Capital Region, Sector New Orleans, Sector San Juan, Sector Sault St. Marie, Sector Savannah, Sector Upper Mississippi River and Sector Virginia, on October 1 and 2, 2020 in an online instructor-led format. The course also included 19 class observers from various USCG departments, including CG Cyber Command, CG-FAC, USCG Sector NY, and the USCG Auxiliary Cyber Task Force. RADM Michael Ryan, CG Cyber Command, CDR Brandon Link, CG-FAC and CAPT Jason Tama, Commander Sector New York each provided remarks. The two-day course was created in conjunction with CG Cyber Command and USCG Sector NY to provide Coast Guard personnel with foundational knowledge in cyber security concepts and increased awareness of cyber security vulnerabilities and mitigations to assist in making cyber assessments as part of facility and vessel inspections and cyber incident response efforts. Additional online course offerings are being planned for PACAREA personnel later this year. A sequence of on-going courses for broader Coast Guard participation is currently under discussion.
**MSC Researchers to Present VTS Radar for Small Vessel Detection Project Outcomes in Upcoming Webinar.** Dr. Hugh Roarty, Rutgers University will host a webinar in early December to discuss outcomes from the MSC project, VTS Radar for Small Vessel Detection. Roarty and his team modeled existing Vessel Traffic Services (VTS) radar capability based on input from VTS Centers, Coast Guard HQ and C5i. They also modeled proposed radar performance based on information received from commercial vendors in a 2020 Request for Information. The webinar aims to bring together USCG and DHS stakeholders to discuss the team’s findings and proposed radar solutions to meet the Coast Guard’s detection needs. The webinar will be held during the week of December 7, 2020. The date and time are currently TBD. If you are interested in attending, please contact us at MSC@stevens.edu.

**Stevens Institute of Technology and U.S. Navy Renew Educational Partnership Agreement.** The Naval Air Warfare Center Aircraft Division (NAWCAD), Lakehurst and Stevens Institute of Technology have renewed their Educational Partnership Agreement (EPA) to streamline qualified Stevens graduates into the Navy workforce and provide continued education for current NAWCAD Lakehurst employees. The Educational Partnership Agreement (EPA) facilitates internship opportunities for Stevens engineering, science and computer science students to work as NAWCAD Lakehurst interns, and tailored graduate-level programming for NAWCAD Lakehurst employees to pursue a master’s in Systems Engineering at the university. Stevens has participated in NAWCAD Lakehurst’s University Capstone Project Program since 2015. The program engages Stevens students, as well as many former MSC Summer Research Institute students in research projects pertaining to Navy engineering problems. A copy of the Stevens-Navy EPA press release can be found here: https://www.navair.navy.mil/news/Navy-Stevens-Institute-Technology-renew-educational-partnership/Thu-10152020-1344