Stevens Passive Acoustic Sensor System for Dark Aircraft Detection Receives 2020 Patent Award in Homeland Security. MSC’s patented passive acoustic sensor system can detect, track, and classify low-flying aircraft in areas where they can elude FAA radars. The Center designed, built, tested and transitioned the sensor system to Customs and Border Protection (CBP) in 2015 and entered into a licensing agreement with Bridgenet International for manufacturing and supporting the system. Stevens Institute of Technology received a patent for the aircraft detection sensor system and was recently recognized as a 2020 Thomas Alva Edison Patent Award Winner in the Homeland Security category. A passive acoustic system that was originally developed by the MSC to detect underwater threats for the U.S. Navy and the U.S. Coast Guard inspired the design of the land-based system.

MSC Releases a Request for Information for VTS Radar for Small Vessel Detection. MSC just released the RFI to a number of suppliers to collect data from the sensor supplier community to allow the USCG to evaluate the state of the art in sensor technology for small vessel detection while also meeting the VTS mission to monitor and advise vessels within the navigational waterways. For additional information, please contact us at MSC@stevens.edu. A copy of the RFI has been posted at: https://www.stevens.edu/research-entrepreneurship/research-centers-labs/maritime-security-center/research/center-projects

Student Research Projects Result in Plans for Transition and a Discussion of Patent Applications. Students in the MSC’s Summer Research Institute (SRI) presented their research project outcomes in a virtual event held on July 23rd. The student projects focused on USCG and DHS operational needs and resulted in the development of relevant knowledge products and technologies tailored to USCG end-users. Project descriptions and video recordings of the student presentations can be found on the SRI 2020 webpage (www.stevens.edu/SummerResearchInstitute). Among the project outcomes being considered for further development and transition to the Coast Guard Sector NY is the development of a maritime incident visualization and predictive analytics dashboard and a prototype of a handheld sensor platform that can be used for sulfur emission detection. Stevens Office of Technology Commercialization will be meeting with the students on the sulfur emission detection team to discuss opportunities for patenting their invention.

MSC Director Attends National Maritime Security Advisory Committee (NMSAC) Meeting. Professor Hady Salloum and his fellow members on the National Maritime Security Advisory Committee met on July 29 via teleconference, to review and discuss the Coast Guard’s efforts to develop the Maritime Cyber Risk Analysis Model and updates to the Navigation and Vessel Inspection Circular 03-03. This teleconference was open to the public. The NMSAC provides advice to the DHS Secretary via the Commandant of the U.S. Coast Guard regarding national security strategy and policy, actions
required to meet current and future security threats, international cooperation on security issues, and security concerns of the maritime transportation industry.

**MSC Academic Partner and Fellow COE Selected to Develop a Framework and Process for Testing Next Generation 911 Systems.** DHS S&T in partnership with the Department of Transportation has selected the [Critical Infrastructure Resilience Institute](https://www.dhs.gov/science-and-technology/news/2020/08/03/news-release-st-dot-select-universities-support-911-comms) (CIRI), Center of Excellence led by the University of Illinois at Urbana-Champaign (UIUC), to develop a framework and process for testing the interoperability and compatibility of Next Generation 911 (NG911) systems. The updated system will allow for the transmission of video, photos, and text among other communications capabilities between emergency callers and first responders.