DHS Secretary, Mr. Alejandro Mayorkas Reappoints MSC Director to the National Maritime Security Advisory Committee (NMSAC).

Dr. Hady Salloum was recently reappointed by the DHS Secretary, Mr. Alejandro Mayorkas, to a three-year term on the National Maritime Security Advisory Committee (NMSAC). This is his second appointment to the Committee. Dr. Salloum will represent the academic community, providing expertise on maritime security research and technology-based solutions, among other related maritime security areas. To learn more about the NMSAC, visit https://www.dhs.gov/publication/nmsac

MSC Risk Management and Analytics Dashboard transitioned to USCG Sector NY.

A visualization and data analytics dashboard developed in conjunction with a faculty and student research team from North Carolina Central University (NCCU), as part of the DHS Minority Serving Institution Summer Research Team Program, has been transitioned to USCG Sector New York for their evaluation and use. The Risk Management and Analytics Dashboard is founded upon student research conducted during the MSC’s 2019 and 2020 summer research programs. The updated dashboard utilizes ESRI and ArcGIS software and provides a visual display of Marine Information for Safety and Law Enforcement (MISLE) data over yearly, monthly, and weekly time scales. The dashboard can be used to conduct trend analysis of maritime incidents and for asset planning purposes in the USCG Sector NY AOR. The NCCU team has applied for DHS follow-on funding to continue their work on developing the data analytics tool. The dashboard can easily be augmented with incident data to cover other USCG Sectors.

The Maritime Security Center is Planning a Series of Maritime Security Research-Focused Webinars Starting Late Fall 2021.

The webinars will address topics related to the following:

- CUAS Testing and Evaluation Tools
- Underwater Robotics for Security and Inspection Applications
- Applications for Autonomous Systems for Maritime Security
- Detection of Low Flying Aircraft and UAS for Border Security
- Low-Cost Sensor for Maritime Border Applications
- Low-Cost RF Surveillance for Maritime Security
- VTS Radar Technology Gaps
- Detection of Invasive Species at US Ports of Entry
- Cybersecurity and Offshore Windfarms
- Maritime Incident Data Visualization and Analytics
The webinars will be led by MSC researchers and held via Microsoft Teams. The webinars will start late fall and run through the Spring of 2022. Times and dates for the webinar series will be communicated shortly.

**MSC is Collaborating with CG-FAC, CG Cyberspace Forces and CG Cyber Command to Roll out the Center's Maritime Cybersecurity Professional Development Course to Coast Guard Personnel.**

The MSC recently met with representatives from CG-FAC, Cyberspace Forces, and USCG Sector NY to discuss curriculum updates and course delivery dates for the Center’s maritime cybersecurity professional development course. The course is designed to provide fundamental cybersecurity concepts and knowledge within the context of the maritime transportation system (MTS). The anticipated delivery dates for the two-day virtual course are January 27 - 28, 2022, March 17 - 18, 2022, and May 12 - 13, 2022. Additional courses may be added, and delivery dates may be modified at the Coast Guard's request.

**Offshore Wind Farm Cybersecurity Project Featured at Hack the Sea DEFCON Event.**

Dr. Mary Ann Hoppa, Associate Professor, Computer Science Department, Norfolk State University (NSU) was invited to present her team's summer research project focused on cybersecurity vulnerabilities of offshore wind farms at the 2021 Hack the Sea DEFCON event held virtually August 5-8, 2021. Dr. Hoppa's research was conducted as part of the DHS MSI Summer Research Team Program, in conjunction with the MSC's Summer Research Institute. Throughout the 2021 summer research project, Dr. Hoppa and her student team assessed cybersecurity vulnerabilities and risks associated with offshore wind farms being built in US coastal waters. The team's research highlighted several plausible scenarios in which offshore wind farms could be hacked or compromised, causing cascading impacts to the Maritime Transportation System, among other critical infrastructure systems. Dr. Hoppa and her team have applied for follow-on funding to further develop a digital twin of an offshore wind farm to model and simulate hypothetical cyber-attacks and develop mitigation strategies. The Hack the Sea DEF CON event aims to bring greater awareness into cybersecurity threats and concerns within the maritime domain.

**MSC Master's Degree Fellow Receives DHS Peer-to-Peer Recognition Award.**

Hasan Shahid, former MSC Maritime Systems Master's Degree Fellow, and 2011 Summer Research Institute alumni received a DHS Peer-to-Peer Recognition award by his colleagues at the National Urban Security Technology Laboratory (NUSTL). He was honored as one of six Change Agents across DHS. The award allows DHS employees to recognize their peers who have distinguished themselves as leaders, change-makers, and people who make a difference. Hasan sets a strong example for co-workers through collaboration and technical excellence, motivating those around him and demonstrating his ability to share and apply information to achieve designated outcomes. In his Peer-to-Peer nomination letter, his NUSTL colleagues wrote "Hasan Shahid is the epitome of a Change Agent because he consistently raises the bar for technical excellence, leading by example with a natural ability to engage and motivate teams to achieve quality outcomes." Prior to joining NUSTL in 2016, Hasan was awarded an MSC master's degree fellowship, funded through a DHS Career Development Grant.