



Maritime Risk Symposium (MRS) 2024

11-13 June 2024 @ Naval Postgraduate School (NPS)

Our shared goal: *Building unity of purpose to achieve unity of effort.*

Focus. The Maritime Risk Symposium is an annual 3-day conference in which government and maritime industry leaders, port representatives, researchers, and solution providers convene to examine current and emerging threats to maritime security. Maritime security is increasingly at risk during the current period of great-power competition and ongoing conflicts, especially in the Gray Zone. The maritime industry now finds itself at the center of attention for the U.S. Coast Guard, U.S. Navy, U.S. Marine Corps, and U.S. Merchant Marine, as well as for Congress, the federal interagency system, state and local governments, and many diverse international stakeholders.

Tuesday June 11

0700 MRS2024 registration open, Glasgow Hall 102. *Newly arriving non-DoD personnel check in 0700 at the NPS gate in order to get your [Base Access](#) pass so you can get on campus in time for the start!*

0800 Welcome and Introductions

- **Rich Timme**, RADM, USCG (Ret.), Master of Ceremonies
- **Don Brutzman**, PhD, NPS Host and Co-Chair (along with **Joe Dizenzo, PhD, USCG R&D Center**)
- **Scott Brotemarkle**, National Academy of Sciences (NAS) Transportation Research Board
- **Randy Pugh**, NPS Naval Warfare Studies Institute (NWSI)

0815 Welcome, Maritime Risk Symposium Contributors!

- **Ann E. Rondeau**, NPS President, Ed.D., VADM, USN (Ret.)
- <https://www.nps.edu/web/guest/president>

0830 **Keynote Panel 1 – Past Present Future of [Tri-Service Maritime Strategy \(TSMS\)](#)**

- *Future of Multi-Service Maritime Strategy: How to Move Forward on Urgent Future Needs?*
- Focus: Senior U.S. Flag and General Officers offer insights for achieving an enduring national strategy to address increasing military threats to U.S. maritime industry. [90 mins.]

Panelists

- USCG: **Andrew Sugimoto**, RADM, USCG, Commander, USCG District 11
- USN: **T. J. White**, VADM, USN (Ret.), NPS
- USMC: **Lori Reynolds**, LtGen, USMC (Ret.), NPS
- NOAA: **Nancy Hann**, RADM, NOAA, Director, NOAA Commissioned Officer Corps
- MARAD: **Mark Buzby**, RADM, USN (Ret.), Former Director, U.S. Maritime Administration
- Moderator: **Don Brutzman**, Ph.D., NPS

1000 Break/Networking

1030 Panel 2 – Maritime Domain Awareness and Tri-Service Collaboration – Chair: Stan Gold, USCG Atlantic Area, Strategic Advisor

- **Focus:** Global maritime security and prosperity is accomplished through the effective understanding of the maritime domain and by improving our ability to appropriately share maritime information, including intelligence, law enforcement information and all-source data from private sectors. How can we improve access to maritime information for all those with requisite needs and appropriate permissions among the Global Maritime Community of Interest (GMCOI)? What are some key barriers to our ability to create enterprise-level access to data and transition from current organization-centric data architecture? What steps can we take today to break down barriers and enhance collaboration between GMCOI members?

Panelists

- **Michael Brookes**, RADM, USN, Commander, Office of Naval Intelligence (ONI)
- **Rachel Lewis**, CAPT, USCG, Maritime Intelligence Fusion Center (MIFC) Pacific
- **Chris Page**, Senior Executive Service (SES), USN, OPNAV N2N6Q
- **Jack McCready**, Ph.D., University of San Diego (UCSD)
- **John Thayer**, Science & Technology Directorate, Department of Homeland Security

1200 Contributing students available to discuss their Poster submissions in Courtyard. Lunch on Your Own. [Walking Distance: Local Del Monte Café & NPS Foundation Cottage]

1300 Panel 3 – Maritime Policy *vis-a-vis* National Maritime Strategy – Chair: CAPT Jon Kaskin, USN (Ret.)

- **Focus:** Since 2014 Congress has tasked Administrations to develop a National Maritime Strategy to provide sufficient U.S. Flag shipping, mariners, and shipbuilding capacity to meet future military sealift and economic security requirements – so far without success. This panel will discuss the latest attempt to develop this strategy mandated by the FY23 National Defense Authorization Act. After highlighting previous strategy efforts, the panel will address the status of the ongoing study to provide input to the new strategy, and then offer Administration, U.S. shipbuilding/repair industry, U.S.-flag shipping, and maritime labor perspectives as to what the new strategy needs to address.

Panelists

- **Douglas McDonald**, Director, Office of Policy and Plans, U.S. Maritime Administration (MARAD)
- **Jerry Meyerle**, Principal Research Scientist, Fleet Plans and Requirements, Center for Naval Analyses (CNA)
- **Sara Fuentes**, Vice President for Government Affairs, Transportation Institute; Former Vice President of Government & External Affairs, Navy League of the United States; and Vice President, American Maritime Partnership
- **Tom Wetherald**, Member, U.S. Maritime Transportation System National Advisory Committee (MTSNAC); Former Director of Strategic Planning at General Dynamics/NASSCO

1430 Break/Networking, view posters in courtyard

1500 Panel 4 – Maritime Cyber and Multi-Stakeholder Collaboration – Chair: Scott Blough, Mandiant, Google Cloud

- Focus: Gray zone threats in the maritime domain, characterized by subtle cyberattacks aimed at disrupting operations and gaining strategic advantage, pose a complex challenge to traditional cybersecurity approaches. These threats often fall below the threshold of conventional conflict, making attribution and response difficult. Artificial intelligence (AI) offers promising solutions to enhance the detection, analysis, and mitigation of gray zone cyber threats in the maritime sector. This panel explores the potential of AI to counter tactics like GPS spoofing, AIS manipulation, and attacks against port infrastructure. It examines how machine learning can identify anomalies in network behavior, detect subtle patterns associated with gray zone activities, and automate threat intelligence analysis. The panel will also address the various challenges of applying AI in this context, including developing specialized datasets, enhancing the understanding of AI decisions, and ensuring the trustworthiness of AI systems in high-stakes environments.

Panelists

- **Nate Toll**, Principal Consultant, Mandiant, Google Cloud
- **Austin Reid**, Senior Consultant, ABS Group, Maritime Cybersecurity
- **Alexander Beall**, Johns Hopkins Applied Physics Laboratory, Project Manager, MOSAIC Team
- **Nick Parham**, Esq., USCG Atlantic Area, Marine Transportation System (MTS) Cybersecurity Coordinator

1630 End-of-Day Program Recap; Updates for Symposium Days 2 & 3 – **MC: Rich Timme**

1715 Poster Displays Complete [Resumes on Day 2]

1730 Reception for MRS 2024 Committee / Flag & General Officers [Hermann Hall Tower Room]

1730 No-Host Optional Get-Together [Dust Bowl Brewing Company /downtown Monterey]

Poster Judges

- **Rick Paxton**, CAPT USCG (Ret.) – Chair: Poster Committee
- **Grant Thomas**, CAPT USCG
- **Fred Roberts**, Ph.D., Rutgers University
- **Kelli Frakes**, Ph.D., American Military University (AMU)
- **Scott Clendenin**, RDML USCG (Ret.), Dog Zebra Consulting
- **Christine Duprow**, Ph.D., DoD Ted Stevens Center
- **Jack McCready**, Ph.D., University of San Diego (UCSD)
- **Shawn Malone**, CAPT USN (Ret.) – Lockheed Martin

Wednesday June 12

0700 MRS2024 registration open, Glasgow Hall 102. Newly arriving non-DoD personnel check in 0700 at the NPS gate in order to get your [Base Access](#) pass so you can get on campus in time for the start!

0745 Welcome back! Ideas, Impressions and Feedback – **MC: Rich Timme**

0800 Panel 5 – Understanding Maritime Risk Amidst Gray Zone Conflict? – Chair: CAPT Eric “Coop” Cooper, USCG (Ret.)

- **Focus:** How are gray zone activities identified (since they are already in an undefined space)? What types of risk do such activities pose to the economy, international relationships, security, and global balance of power? What types of risks do they bring to operational activities in different regions? What are the key concerns of the individual maritime services and industry? What are each of the services doing to address these concerns? How are the services coordinating with international partners, government agencies and non-governmental organizations to counter gray zone activities?

Panelists

- **Lawrence Walzer**, NPS, Chair, Maritime Gray Zone Research Task Force
- **Jason Ryan**, CAPT, USCG, Chief of Operations, USCG Pacific Area
- **Raymond Powell**, Col., USAF (Ret.), Stanford University’s Gordian Knot Center
- **Andrew Curry**, Assistant Director, Government Accountability Office (GAO)
- **Hunter Stires**, Maritime Strategist, Office of the Secretary of the Navy

0930 Break/Networking, view posters in courtyard

1000 Panel 6 – Multi-Service and Maritime Industry Collaboration in the Arctic – Chair: RADM Matt Bell, USCG (Ret.), DoD Ted Stevens Center

- **Focus** – Four overarching questions:
 - As maritime activity in the Arctic region increases, how do the Sea Services (i.e., USN, USMC, USCG, USMM and NOAA) best collaborate with the maritime industry to mitigate the risks of conducting operations in this harsh and dynamic region?
 - What forum(s) already exist to foster this collaboration? Are they being leveraged? If not leveraged to their fullest extent, what needs to be done to change that?
 - Who are all the key U.S. and allied Arctic maritime stakeholders? How do we learn from the past to inform the present and future in ways that promote safety, security, stewardship, and responsible economic development throughout the region?
 - What significant considerations/issues are on the horizon 7-10 years out that we need to start addressing now?

Panelists

- **Megan Dean**, RADM USCG, Commander, USCG District 17
- **Steve White**, CAPT, USCG (Ret.), Executive Director, Marine Exchange of Alaska
- **Art Dahlin**, Vice President and Alaska General Manager, TOTE Marine Alaska
- **Mick Bradway**, Resource Evaluation Division, Alaska Outer Continental Shelf Region, Bureau of Ocean Energy Management (BOEM)

1110 Panel Complete. [Only a 5-minute break to shift panelists on stage]

**1115 Panel 7 – Symposium “Lessons Learned” Discussion – Chair: RADM Fred Rosa, USCG (Ret.), Johns Hopkins Applied Physics Laboratory
Closing Remarks by RDML Scott Clendenin, USCG (Ret.)**

- **Focus:** This final panel will afford all of the previous panel chairs an opportunity to share their thoughts about the most significant perspectives, insights, challenges, solutions and/or proposals discussed during MRS 2024. Primary topics to be addressed will include:
 - Implications not only for the U.S. Tri-Service Maritime Strategy, but overarching domestic and international maritime policy and strategy;
 - Approaches to promoting greater collaboration throughout the Global Maritime Community of Interest (GMCOI), particularly with respect to developing enhanced maritime domain awareness and related sharing mechanisms;
 - Developing a more focused and nuanced understanding of how and to what extent gray zone activities increase maritime sector risk;
 - Optimizing the development and use of AI/ML solutions to counter maritime cyber and other threats, especially those evolving gray zone threats falling below the level of conventional conflict;
 - Exploring and assessing the risks emerging in the Arctic region as maritime activities increase, and in turn boost the demand signal for governmental safety and security services; and
 - Identifying promising research avenues that would support future initiatives to reduce or eliminate sources of maritime risk highlighted during the symposium.

1155 Panel Complete. [Only a 5-minute break to shift panelists on stage]

1200 Briefing by DoD Ted Stevens Center on MRS 2025 – “**Church**” Key, MajGen, USAF (Ret.)

1210 Poster Awards – **Rick Paxton**, Chair, Poster Committee

1220 EVERGREEN Synopsis – Foresight, Past Present Future – **Zach Schulman**, Esq., USCG HQ DCO-X

1230 Maritime Gray Zone Exploration Workshop Synopsis – **Lyla Englehorn**, NPS NWSI

1240 Thanks to Contributors, Committee Members, and Participants! – **MC: Rich Timme**

1245 MRS 2024 Panels Complete. Pickup lunches in Glasgow courtyard, working lunch in sessions.

1330 Start EVERGREEN Gray Zone – **Zach Schulman**, Esq., USCG

1330 Start Exploration Workshop – **Lyla Englehorn**, NPS NWSI

- Workshop Senior Mentor: **Rich Timme**, RADM, USCG (Ret.)
- Workshop Senior Mentor: **Scott Clendenin**, RDML, USCG (Ret.)

1730 EVERGREEN and Exploration Workshop Complete Day 1

1800 MRS 2025 Committee Meeting

Thursday June 13

0800 Day 2 EVERGREEN Gray Zone Continuation – **Zach Schulman, Esq.**

0800 Day 2 Exploration Workshop Continuation – **Lyla Englehorn**

1600 Result Briefings: EVERGREEN and Exploration Workshop Teams

1730 MRS 2024 Event Completion. *Safe travels home!*