

Technical Sessions for STS 2024

Session I: Enabling the Undersea Force from Seabed to Space

Chair – Scott Osterman – NUWC

Assistant Chair – CAPT Jeff Hoyle, USN (Ret) – Elbit America

- New technologies that enable force success
- Cross-domain collaboration
- Operational availability (Ao) challenges, supply chain, material readiness
- Command and control (C2)/Communications solutions, Communication at Speed and/or Depth
- Multi-domain kill chains
- Leveraging the Navy Network Cloud Exchange
- Non-kinetic weapon

Session II: Enhancing Undersea Access and Lethality

Chair – Michael Diggs – HII-NNS

Assistant Chair – Tom Northardt – BAE

- Ao challenges, maintenance, and material readiness
- Weapons & combat innovation
- Improving situational awareness
- Mine Countermeasures (MCM)
- Counter-Subsea/Seabed Warfare (SSW)
- Manned/unmanned teaming
- SSN(X) key performance parameters...speed, stealth, payload, presence
- Countering the high-end submarine threat
- Weapons other than torpedoes and forward deployed weapons

Session III: Seabed Warfare, the Next Domain

Chair – Mark Allen – Penn State ARL

Assistant Chair – Justin Reid – GD-MS

- Unmanned Underwater Vehicles (UUV)/Automated Underwater Vehicles (AUV) missions and payloads
- UUV/AUV recovery
- Seabed/subsea sensors, logistics (power, data, etc.)
- Mine Warfare (MIW)/MCM
- VIRGINIA Class (VACL) and SSN(X) SSW capabilities
- Countering adversary SSW capabilities
- Manned/unmanned teaming for SSW
- Enabling technologies (for seabed effectors)

Session IV: Strategic Forces...Deterring Tomorrow's Fight

Chair – Karen Conti – Epsilon Systems

Assistant Chair – Bob Thomas – LMCO

- Maintaining OHIO
- Transitioning to COLUMBIA
- Other payloads
- Weapon system changes/improvements
- Strategic anti-submarine warfare (ASW)
- Expeditionary deterrence (forward deployed ballistic missile submarines (SSBNs))
- Conducting deterrence mission as the high-end threat grows (more SEVERODVINSKs (SEV), SEVs in the Pacific)

Session V: Partnering to Prevail

Chair – Josh Smith – JHU/APL

Assistant Chair – Joe Petrucelli – SPA, Inc.

- Australia/UK/US (AUKUS) Pillar 1 & 2
- Maintenance commonality
- Common weapon/payload improvements
- Integrated warfighting
 - Theater Undersea Warfare (TUSW)
 - Waterspace Management (WSM)
 - Communications
- Shared lethality
 - Common, collaborative targeting
- Allied view of the battlespace

NOTE: AUS and UK personnel (includes AUS and UK Flag officers, government civilians and industry) will be in attendance during Session V. Organizations selected to present during Session V will be required to abide by International Traffic in Arms Regulations (ITAR), and a procedure to easily do that has been established. Specifically, organizations presenting during Session V will be authorized by VADM Houston, COMSUBFOR, to self-certify under ITAR Exemption 126.4—registration with Directorate of Defense Trade Controls (DDTC) is also required. Organizations attending but not presenting during Session V are not considered to be exporting under ITAR and thus do not need to self-certify nor be registered with DDTC.