

American Society of Naval Engineers

Naval Science & Technology Expo / Combat Systems / Technology, Systems & Ships Symposium 2024

*Employing and Sustaining Naval Weapons to Win
Meeting the Demand Signal – More Players on the Field*

December 9—12, 2024

George Mason University Van Metre Hall, Arlington, VA

The Office of Naval Research is supporting the 2024 Naval Science & Technology / Combat Systems Symposium and Technology, Systems & Ships Symposium over the December 9-12, 2024 timeframe at the George Mason University Arlington, VA Campus.

In recent years, ASNE Combat System Symposia have focused on Digital Engineering concepts and their impact on Combat Systems as well as reflected on the Secretary of the Navy's Strategic Objectives of how we go about expanding our forward presence, enhancing our warfighting readiness, and innovating and modernizing our combat system capability. Given real world operations and conflicts in both Eastern Europe and the Middle East, ASNE Combat Systems Symposium 2024 will delve into our offensive and defensive weapons that have been used or may be called into service, tactics used to employ those weapons, and how we maintain and sustain those weapons to ensure they are available when needed. The Symposium will also look at future weapon capabilities, from both the benefits and challenges perspective.

The Technology, Systems & Ships Symposium will focus on 'meeting the demand signal' with Technology, Systems & Ships. As the CNO has stated "...our Sailors must be the best warfighters in the world with the best systems, weapons, and platforms to ensure we can defeat our adversaries. We will put 'more players on the field' -- platforms that are ready with the right capabilities, weapons and sustainment, and people who are ready with the right skills, tools, training, and mindset."

Agenda:

Day One, Monday, 9 December 2024

0815 – 0830:

Welcome & Kickoff: Mr. Dale Lumme (ASNE Executive Director), Mr. Joe Johnson (ASNE CSS Committee Chairman)

0830 – 0930:

Joint Opening Keynote Address:

RADM Kurt Rothenhaus, USN (Chief of Naval Research (CNR) and RDML Tom Dickinson, USN (Program Executive Office, Integrated Warfare Systems (PEO IWS))

0930 – 1100:

ONR S&T / CSS Panel 1: Offensive and Defensive Weapons for Today and the Future:

Moderator: RDML Tom Dickinson, USN (Program Executive Office, Integrated Warfare Systems (PEO IWS)).

Panelists: IWS 3.0, IWS 11.0, IWS 12.0; PMA 280

1100 – 1115: Network

1115 – 1200: Presentation: Rapid Capability Update: Getting Innovation to Sea. Mr. James Juster (PEO IWS)

1200: Lunch

1245 – 1345: Keynote Speaker: Weapons to Win. VADM Scott Pappano, USN (Principal Military Deputy ASN(RDA))

1345 – 1400: Network/Snacks

1400 – 1530:

ONR S&T / CSS Panel 2:

Integrated Combat System Challenges.

Moderator: CAPT Andy Biehn, USN (Program Executive Office, Integrated Warfare Systems);

Panelist: PEO IWS X, PEO IWS 1.0, PEO IWS 80.0, PEO IWS 9.0, MDA-AB

1530 – 1630: Keynote Speaker: The Honorable Carlos Del Toro (Secretary of the Navy)

1630: Day One Wrap & Preview of Day Two: ASNE CSS Committee

ONR S&T / CSS
Day Two, Tuesday, 10 December 2024

0800:

Recap Day One: Mr. Joe Johnson (ASNE CSS Committee Chairman)

0815 – 0900:

Keynote Speaker: RADM Christopher Sweeney, USN (Director, Integrated Warfare, N9I, Office of the Chief of Naval Operations)

0900 – 1015:

ONR S&T / CSS Panel 3: Naval Power: Science and Technology to deliver in an era of strategic competition and rapid technological change. Panelists: TBD

1015 – 1030: **Network**

1030 – 1145:

ONR S&T / CSS Panel 4: Enhancing Readiness and Sustainment of Naval Weapons.

Moderator:

Mr. Howard Berkof, SES (PEO IWS D)

Panelists:

CAPT John Bowman, USN, PEO IWS 1F; CAPT Andrew Hoffman, USN, PEO IWS 80F; CAPT Jesse Mink, USN, PEO IWS 2.0; Mr. Robert Stukes, PEO IWS Logistics; CAPT Michael Ladner, USN (Ret), Deputy Technical Director NSWC PHD

1145 – 1230:

Keynote Address:

Achieving Tactical Excellence by Design

Speaker:

RDML D. Wilson Marks, USN (Commander, Naval Surface and Mine Warfighting Development Center (SMWDC)).

1230 – 1330: **Lunch**

1330 – 1415:

Presentation: The Case and the Challenges of Directed Energy Weapons. Presenter: The Case and the Challenges of Directed Energy Weapons. Presenter: Dr. Bonnie Johnson, Naval Post Graduate School

1415 – 1430: **Network/Snacks**

1430 – 1545:

ONR S&T / CSS Panel 5: Multi-pronged Terminal Defense. Moderator: RDML Tom Druggan, USN (Ret) {Confirmed}; NSWC DD (CO), SMEs on: Soft-kill; Decoys; Hi-velocity Projectiles; Lasers; etc. [SA: USN]

1545 – 1630:

Presentation: Capabilities, Limitations, and Challenges of Weaponizing Autonomous Vessels. Mr. Joel MacRitchie (PMS 406 DPM)

1630: **Day Wrap-up:** ONR / CSS Planning Committee

1645: **Reception:** ASNE Flagship Section

ONR S&T / TSS
Day Three, Wednesday, 11 December 2024

****0900--1700**:**

****Intro to Combat Systems Engineering Course held at GMU [concurrently] requires separate registration.**

0815 – 0830:

Welcome & Kickoff:

**CAPT. Dale Lumme, USN (Ret.) (ASNE Executive Director),
CAPT Rick White, USN (Ret.) (ASNE TSS Committee Chairman)
VADM David Lewis, USN (Ret.), ASNE President**

0830 – 0930:

Keynote Opening Address:

The Honorable Mr. Nickolas Guertin, Assistant Secretary of the Navy, Research, Development and Acquisition.

0930—0945: Break / Snacks

0945—1100:

ONR S&T / TSS Panel 1: S&T to improve the lethality, survivability and affordability of the Fleet and Force

1100-1215: ONR S&T / TSS Panel 2: PEO (CV)

1215-1315: Lunch

1315—1445: ONR S&T / TSS Panel Session 3 (PEO USC)

1445--1500:

ASNE Awards Ceremony: Clifford G. Geiger Award

1500--1515: Break / Snacks

1515 – 1645: ONR S&T/TSS Panel Session 4.

**Other Transaction Authority (OTA): MSTIC and NSTIC;
Mr William Deligne, SES (Ret.) and RADM Thomas Kearney (Ret.)**

1700: Networking Reception

ONR S&T / TSS
Day 4, Thursday, 12 December 2024

0800 – 0815:

Welcome & Kickoff:

CAPT Rick White, USN (Ret.) (ASNE TSS Committee Chairman)

VADM David Lewis, USN (Ret.), ASNE President

0815 – 0915:

Technical Paper Presentations

0915—1030:

ONR S&T / TSS Panel Session 5 (PEO Ships)

1030--1045: Break / Snacks

1045—1200 **ONR S&T / TSS Panel Session 6 (NSWC Dahlgren (Technical Director, Dale Sisson)**

1200-1300: Lunch

1300-1415:

Parallel Professional Development Panels:

Young Professionals A (Government) and Young Professionals B (Industry)/Gen Z

1415-1430: Break / Snacks

1430—1600:

ONR S&T / TSS Panel 7: Building the Maritime Industrial Base (MIB): Mr. Jay Stefany); Panelists: TBD

1600: **ONR S&T / TSS Wrap-up: ONR / TSS Planning Committee**