Call for Participation: Integrated Ocean Science & Technology Workshop
An NPS–Stanford Ocean Sciences Collaboration
Naval Postgraduate School & Stanford University
May 29, 2026, Stanford, CA
Register here

The Naval Postgraduate School (NPS) and Stanford University invite faculty participation in the 2nd collaborative workshop, with this event focused on **Integrated Ocean Science & Technology**, designed to foster new research partnerships and generate competitive joint research proposals addressing critical challenges in the maritime domain.

Building on the success of the first **Ocean Sciences Workshop** held in 2024, this workshop will establish a platform for connecting researchers, developing collaborative teams, and advancing innovative solutions in ocean science, undersea sensing, and marine technologies. The event will bring together faculty from both institutions to exchange ideas, develop new research concepts, and build teams positioned to pursue external funding opportunities.

Workshop Location and Timing
May 29, 2026
9:00 AM PT – 5:00 PM PT, with poster session & social following
Press Building, 425 Santa Teresa St, Stanford, CA 943050

Workshop Objectives
The workshop is designed to catalyze collaboration and produce tangible outcomes through:

- Connecting faculty and researchers from NPS and Stanford with shared interests in ocean science, maritime sensing, and related technologies
- Forming interdisciplinary research teams to address high-impact, actionable scientific and operational challenges
- Developing competitive proposals for seed funding and external research opportunities
- Establishing sustainable pathways for joint research initiatives and graduate student and postdoctoral researcher collaboration

Focus Areas
The 2026 workshop will center on four thematic areas within ocean science and maritime research:

1. Ocean Observations, Modeling, and Phenomena
Analysis of ocean observations and the development of theoretical and numerical tools for improved understanding and predictions of oceanic processes, systems, and phenomenology in the maritime domain.

2. Advanced Ocean Sensors
Development of next-generation sensing systems including acoustics, environmental sensing, distributed sensing, and ocean observation technologies.

3. Autonomous Ocean Systems
Design and deployment of intelligent autonomous platforms operating in maritime environments.

4. Artificial Intelligence and Machine Learning for Ocean Science
Applications of AI/ML to ocean sensing, environmental modeling, data processing, maritime awareness, and autonomous operations.

Expected Outcomes
Participants will have the opportunity to:

- Engage with emerging ocean science and maritime technologies
- Develop new inter-institutional research collaborations
- Form teams to pursue joint research proposals
- Explore pathways for collaborative research opportunities
- Contribute to advancing research priorities for national and global impact in ocean science and maritime security

Workshop Format
The workshop will feature a highly interactive format designed to generate collaboration and new research ideas including the following:

Lightning Research Presentations
Short talks highlighting both ongoing and planned work and identifying collaborative opportunities.

Team Formation and Collaboration Sessions
Structured discussions designed to build interdisciplinary research teams around the four focus areas.

"Big Ideas" Research Pitch Panel
Stanford–NPS faculty teams will present research concepts to a panel of faculty and stakeholders. Selected ideas may be refined for submission to funding opportunities.

Networking Event
The event will conclude with a poster session and social to allow for relationship building and further project development.

Participation:
We invite participation from **faculty and researchers, at any career stage, with expertise in:**

- Oceanography and ocean engineering
- Ocean sensing technologies
- Autonomous maritime systems
- Artificial intelligence and machine learning
- Maritime domain awareness
- Environmental modeling and ocean data science
- Ocean solutions and ocean observing applications to marine and maritime sectors

Researchers interested in **cross-disciplinary collaboration at the intersection of ocean science, autonomy, and AI** are particularly encouraged to participate. Participation of **early career scientists and engineers** is highly encouraged.

Registration & Expression of Interest
All interested in participating should **fill out the online form here to register and share**:

- Research expertise and interests;
- Potential collaboration areas aligned with the workshop themes; and,
- Interest in presenting in or leading sessions.

Additional information regarding workshop logistics and proposal development opportunities will be shared with registered participants.