



SNAME
THE INTERNATIONAL COMMUNITY FOR MARITIME AND OCEAN PROFESSIONALS

Value of Becoming a Society of Naval Architects and Marine Engineers Member

SSI World Shipbuilding Conference -Americas

26 September 2024

BULOXI, MS

Presented By: Elizabeth Bouchard, Executive Director

ABOUT SNAME

- SNAME was established in 1893 to advance the art, science, and practice of naval architecture and marine engineering.
- SNAME is an independent marine technical society of individual members that is globally recognized for advancement of the marine industry.
- Today, SNAME represents the international community for maritime and ocean professionals, not just naval architects and marine engineers.
- Membership is open to anyone who has an interest in SNAME's mission and work.



SNAME's VALUE

- SNAME adds value to individuals and the companies they work for through its:
 - Technology and Research (T&R)
 - Publications
 - Educational Programs
 - Networking Opportunities



T&R



T&R Organization

- T&R work is conducted by ten broad subject Committees:
 - Hydrodynamics
 - Hull Structures
 - Ship's Machinery
 - Operations, Safety & Economics
 - Offshore
 - Environmental Engineering
 - Ship Design
 - Marine Forensics
 - Small Craft
 - Ship Production



T&R Organization

- Subject Committees form specialist Panels that are:
 - Chaired by a subject matter expert (SME) usually (but not always)
 - Members are interested persons at all stages of professional development from students to SMEs



T&R Organization - *is fluid and constantly changing*

- Panels are activated and deactivated depending on:
 - Level of interest
 - Membership support
- Panels may form joint working relationships for specific projects
- *Ad Hoc* Panels are formed to study special subjects outside the domain of existing panels, and have finite life



T&R Organization - *leadership*

- T&R Steering Committee is chaired by the Functional Vice President – Technology, and comprised of Committee Chairs and other invited experts.
- Committee Chairs are appointed by T&R Steering Chair.
- Panel Chairs are appointed by Committee Chairs.
- Membership is open to ALL SNAME members: *joining a Panel or Committee is as simple as asking the Chair*



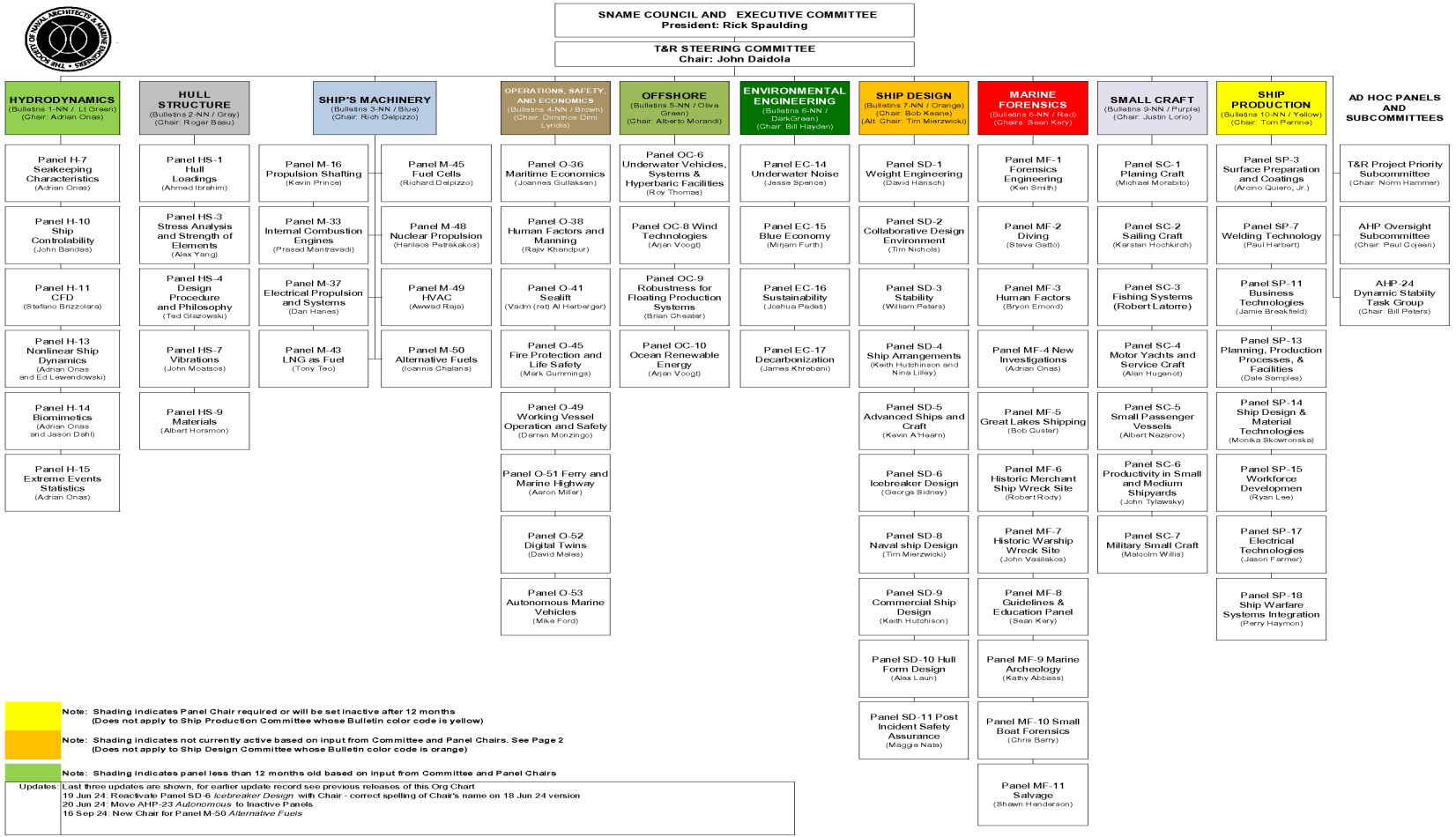
T&R Committees & Panels - *research*

- Panels (under guidance of Committees), act as technical, topic-area discussion groups, where research needs are addressed
- Projects are designed to meet specific objectives
 - Informal (unfunded)
 - Formal (funded)
- Events and meetings are used to promote understanding
- Publications are used to disseminate research project findings



T&R Organization Chart

Organization Chart of the Technical and Research Program



Note: Shading indicates Panel Chair required or will be set inactive after 12 months (Does not apply to Ship Production Committee whose Bulletin color code is yellow)

Note: Shading indicates not currently active based on input from Committee and Panel Chairs. See Page 2 (Does not apply to Ship Design Committee whose Bulletin color code is orange)

Note: Shading indicates panel less than 12 months old based on input from Committee and Panel Chairs

Updates: Last three updates are shown, for earlier updates record see previous releases of this Org Chart
 19 Jun 24: Reestablish Panel SD-6 Icebreaker Design, with Chair - correct spelling of Chair's name on 18 Jun 24 version
 20 Jun 24: Move AHP-23 Autonomous to Inactive Panels
 16 Sep 24: New Chair for Panel M-50 Alternative Fuels



T&R Work – *expectations*

- Members may be at any stage of professional development from SMEs to simple interest in the area with ZERO experience.
- Most meetings are virtual; can join and just listen to the discussion
- Anyone – at any level of experience – is free to ask questions or provide input for discussion by the group.



T&R Work - *benefits to you*

- Focused on research that provides relevant solutions to real industry problems
- Collaboration with subject matter experts
- Participation in developing industry standards
- Industry recognition of your Panel membership
- Participation in Panel Webinars and SMC contributions
- Opportunity to influence SNAME's technical interests
- Meet potential employers with similar interests to yours
- Contribute to improving the benefits the Society brings to the international maritime community



T&R Activity Highlights

Panel HS-3: *Stress Analysis and Strength of Elements* (Chair Alex Yang)

- Finite Element Analysis guidelines for marine structure analysis: First draft (~120 pages) being finalized

Panel M-48 *Nuclear Propulsion* (Chair Harilaos Petrakakos) and **OC-9 *Robustness*** (Chair Brian Cheater)

- The International Nuclear Energy Maritime Organization has expressed interest in collaborating with SNAME. Discussions on specific subjects are planned.

Panel SD-6 *Icebreaker Design* (Chair George Sidney)

- Panel recently reactivated; new charter under development

Ship Production Committee (Chair Tom Perrine)

- SNAME is focused on re-engaging with and helping to reinforce shipbuilding.



T&R-Led Joint Industry Projects (JIPs)

Offshore Committee (Chair Alberto Morandi)

- Phase I has started on the Nodules shipTOshore JIP to determine ways of making the process of at-sea transfer safer and more efficient.

Panel HS-3 *Stress Analysis* (Chair Alex Yang)

- Continues to pursue a JIP on the analysis of floating offshore wind turbine structures

Panel OC-10 Offshore Renewable Energy (Chair Arjan Voogt)

- Discussions on extending the research (Phase III) to the J-REG JIP that produced T&R Bulletin 5-7 (2024).



T&R - Green Energy and the Environment

Panel M-50 *Alternative Fuels* (Chair Ioannis Chalaris)

- Will be rejuvenating its work on alternative fuels (ammonia and hydrogen)

Panel EC-14 Underwater Radiated Noise (Chair Jesse Spence)

- Updating T&R Bulletin 6-2 mvep gm-1, *Ocean Health and Aquatic Life - Underwater Noise* (will be published as a new bulletin)



T&R – Contact

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Publications



Publications - *T&R*

- T & R Publications:
 - T&R Bulletins
 - T&R Guides
 - T&R Reports
- Technical Papers



Publications – *Text and Reference Books*

New Titles in the following series for 2024:

- **The Marine Engineering Series**

- *Reduction Gears*
- *Steam Turbines and Systems*
- *Thermodynamics, Combustion and Heat Engineering*

- **Principals of Naval Architecture Series**

- *Fundamentals – Rigid-Body Dynamics, Hydrodynamics, Random Processes, and Waves*
- *Maneuverability*



Publications – *Journals and Transactions*

A few to note:

- **Journal of Ship Production and Design**
- **Journal of Sailing Technology**
- **Journal of Ship Research**
- **Transactions** (published annually since 1893) - award winning and exceptional papers along with the Society's business report



Publications

Member Benefits

- **Free (mt)Magazine** - features cutting edge technical articles on topics of interest across all marine disciplines.
- **OnePetro** - 20 free downloads from an online technical library (over 5,000 papers and articles) from 22 publishing partners

**Interested in becoming an
Author with SNAME?**

Inquire at:
publications@sname.org



Education



Education

- Professional Development
 - Professional Engineer Review Course (PERC)
 - Professional Development Hours (PDHs)
- Young Professionals
 - Mentoring
- High School Students
 - Exposure to the profession



Education – PERC Course

- For those preparing to take the Principles and Practice of Engineering (PE) Naval Architecture and Marine Engineers examination
 - minimum of four years post-college work experience required
 - tests for a minimum level of competency in an engineering discipline.
- Only for SNAME Members
- Offered in coordination with the National Council of Examiners for Engineering and Surveying (NCEES)
- Naval Architecture, 37.5%, Marine Engineering, 37.5% and Common, 25%.
- Next course October 10, 2024



Education – PDH Credits

PDHs are used by most states to describe one hour of continuing education.

SNAME offers accredited PDHs as part of its events:

- SNAME Maritime Convention
- Section Meetings
- Webinars



Education – PDH Credits (examples)

New York Metro Section Hybrid Meeting, September 26, 2024

- *A Modest Proposal for a Museum on the History of Containerization*
Speaker: Rik van Hemmen, President, Martin & Ottaway
In-Person Venue: General Society of Mechanics & Tradesmen of the City of New York

SNAME Maritime Convention, October 14, 2024

- *Weight Engineering: Fundamentals of Marine Vehicle Weight Estimating*
- *Stability Evaluations with General Hydrostatics Software, Lucas Hurt, Creative Systems, Inc.*

*To obtain PDH credit, participants in these events must attend the meeting and submit a completed Learning Assessment and Application Form to SNAME.



Networking



Networking - *importance*

Networking is important because, among other things, it:

1. Provides access to new, valuable information
2. Increases business connections
3. Provides visibility
4. Enhances career interests
5. Creates job opportunities
6. Enhances communications and resource sharing



Networking - *worldwide*

- SNAME Provides networking opportunities through:
 - Industry Events
 - Sections Events
 - Young Professionals Events
 - Participation as a Member



Membership

**Interested in becoming a
SNAME Member?**

Contact Member Services at: memberservices@sname.org

Visit our website at: <https://www.sname.org>

**Or
See Me!**



Thank You!



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