

# TIDEWATER TIMES

## AMERICAN SOCIETY OF NAVAL ENGINEERS TIDEWATER SECTION



### FEBRUARY 2023 NEWSLETTER

### ASNE TIDEWATER “QUICK LOOK”

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Mar. 15, 2023	ASNE TW Dinner/Meeting - CAPT Jennifer Stockwell, USCG, Commander, Sector Virginia	

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## CHAIR'S LETTER TO THE MEMBERSHIP

### SECTION OFFICERS

**Chair:** Renée Reedy  
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(Area code 757 unless specified)

Greetings Tidewater Members and Friends,

We filled the room at our last dinner/meeting as **RADM McLane**, Commander, Naval Surface Force Atlantic highlighted the successes enjoyed by the Surface Fleet this past year! I for one was excited to hear that more and more surface ships are finishing availabilities on time, and returning to the fleet, with sailors that are as motivated and dedicated as ever!

Here in the Tidewater Section, we are as busy as ever. Last month, on behalf of our Section, I had the honor of presenting a donation in the amount of \$3,000 to the Hampton Roads Naval Historical Foundation in support of the upcoming Brick by Brick: LEGO® Shipbuilding event. Our Section has supported this event for several years as part of our local STEM outreach, engaging the future generation of Naval Engineers. This year's event is scheduled for Saturday, February 4, at the Half Moon Cruise and Celebration Center in downtown Norfolk. Stop in and see the competitions and check in with your fellow ASNE members who will be helping to judge the many entries.

Looking downstream a bit...

- We are excited to have **CAPT Jay Young**, CO MARMC, on February 15th. It will be interesting to hear his perspective on the how we are doing in Hampton Roads and what the future looks like.
- We are also looking forward to hearing from **CAPT Jennifer Stockwell**, USCG, Commander, Sector Virginia at our March dinner.
- Our Planning Committees are in full swing in preparation for two Symposia scheduled in Tidewater in June (MegaRust June 13-15 and MACC June 27-29). If you are interested in volunteering, let us know and we will put you to work.

A couple of quick reminders....

- The February 6 deadline for submission of ASNE Scholarship packages. Don't miss out!
- **ASNE Memberships Free for Students** - Student Memberships are still available! We signed up a couple last month – don't miss out. Time to get out and starting making those contacts for summer internships and post-graduation job opportunities.
- Be sure to check out the newsletter and our website for future events so you don't miss any!

**Membership is key to the success of our Section and the Society as a whole.**

We are all members of the Membership committee when it comes to inviting our fellow Naval Engineer and Maritime professionals to join ASNE. That said, I want to give a shout-out to a couple of folks who brought a friend or two to our last dinner/meeting. Thank you **Andy Vasquez** and **Joe Kosteczko**. Let's keep it going! Introduce your fellow Naval Engineers and Maintenance professionals to ASNE.

Thank you again for all you do to support our Section!

Renée Reedy  
ASNE TW Section Chair  
[ASNE.Tidewater.Social@gmail.com](mailto:ASNE.Tidewater.Social@gmail.com)  
[asne-tw.org](http://asne-tw.org)



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## ASNE TW FEBRUARY DINNER/ MEETING PROGRAM

The ASNE Tidewater Section will hold the next dinner/meeting program on **February 15, 2023**. Our guest speaker is **CAPT Jay Young**, Commanding Officer, Mid-Atlantic Regional Maintenance Center. We look forward to seeing you!

Place: Holiday Inn Virginia Beach-Norfolk at 5655 Greenwich Road, Virginia Beach

Time: 5:30-6:00pm Cocktails and Networking; 6:00-8:00pm Dinner and Program

Cost:

- Members: \$33 in advance / \$35 at the door
- Non-members: \$38 in advance / \$40 at the door
- Military: \$20 in advance / \$25 at the door
- Students: \$10 in advance / \$15 at the door

Please register on our [website](#) by **noon Monday February 13**.

**Capt. Jay Young** was born in Mitchell, South Dakota and commissioned in 1998 at the United States Naval Academy with a Bachelor of Science in Ocean Engineering. At sea, he served aboard USS Fife (DD 991) as the Gunnery Officer where he earned his Surface Warfare Qualification.

His acquisition, maintenance, and diving assignments ashore include Supervisor of Diving & Salvage, Director of Ocean Engineering at Naval Sea Systems Command (NAVSEA 00C), Commanding Officer of the Navy Experimental Diving Unit (NEDU), LCS Principal Assistant Program Manager for Test and Evaluation, Officer in Charge of SUPSHIP Bath Detachment San Diego, T-AKE/MLP/AFSB Program Manager Representative, DDG 51 Class Program Office Chief Engineer, 5th Fleet Salvage Officer, Assistant Officer in Charge of Mid-Atlantic Regional Maintenance Center Detachment Bahrain, Supervisor of Salvage and Diving Project Officer, and Supervisor of Shipbuilding Gulf Coast Project Officer.

Capt. Young assumed Command of Mid-Atlantic Regional Maintenance Center (MARMC) on August 12, 2022.

He is a U.S. Navy Diving and Salvage Officer qualified in air and mixed-gas diving operations and an acquisition professional. He earned a Master's of Science Degree in Mechanical Engineering from Duke University and a Master's of Science Degree in Aerospace Engineering from the University of Alabama and is a member of the Acquisition Professional Community with Level III Certifications in Program Management and Production Quality Management.

His personal decorations include the Legion of Merit Medal (2 awards), Navy Meritorious Service Medal (5 awards), Navy Commendation Medal (5 awards), Navy Achievement Medal (3 awards) and various unit awards.





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## ASNE TW JANUARY DINNER/MEETING HIGHLIGHTS

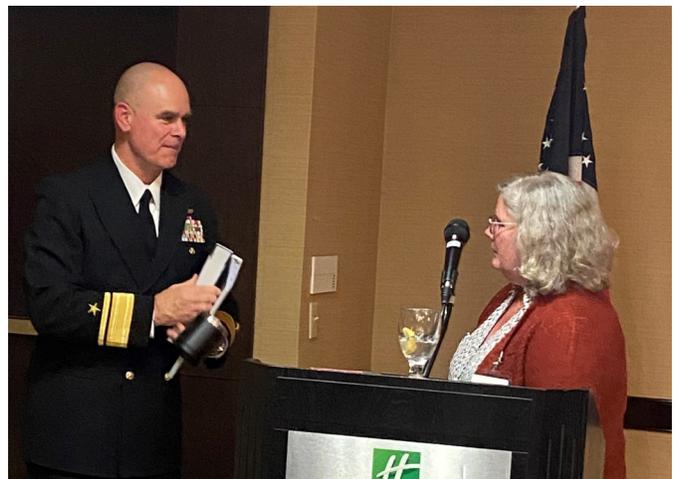
At the January dinner, we had the privilege of having **RADM Brendan McLane**, Commander, Naval Surface Force Atlantic Fleet, as our guest speaker.

In what was the largest dinner turnout in the last several years, we received an update on Naval Surface Forces, what missions our ships are executing, and a look into the future of the fleet. Additionally, RADM McLane addressed specific maintenance areas where we are doing well and those where we are falling short as a maintenance team.

It was a tremendous opportunity for our Section to meet and have discussions with our Navy's Surface leadership. We hope you'll join us at our next dinner/meeting on February 15th.



FUTURE DINNER/MEETING PROGRAM DATES	
<b>FEBRUARY 15</b>	<b>2023</b>
<b>MARCH 15</b>	<b>2023</b>
<b>APRIL 19</b>	<b>2023</b>
<b>MAY 17</b>	<b>2023</b>





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## NOMINATIONS FOR ASNE TW EXECUTIVE COMMITTEE

ASNE Tidewater,

It's getting close to that time of year again when we start thinking about nominations and preparing to vote for new Executive Committee officers. As you know, our Section year runs from 1 July to 30 June.

I am the Chair of the Nominations Committee and will be assisted by **Andy Vasquez**.

As a review, here are our current officers and timeline for serving in each position:

Position	Current Officer	Timeline
Chair	Renee Reedy	2022/2023 (voted in and served as Vice Chair 2021/2022)
Vice Chair	Joe Kosteczko	2022/2023 (will serve as Chair for 2023/2024)
Secretary	Neil St. Clair	2022/2023
Treasurer	Chuck Doty	2022/2023

For the 2023/2024 Section year we will be voting for **Vice Chair, Secretary and Treasurer**.

The schedule for nominations and voting is:

- February Newsletter – soft announcement
- March Dinner/Meeting – accepting nominations for Secretary, Treasurer and Vice Chair
- April/May – ballot generation and voting

If you are interested in serving in one of these positions, or interested in nominating someone for one of these positions, please let me or Andy Vasquez know. All nominations need to be accepted and vetted prior to being put on the ballot.

Thank you,  
Vincent Janowiak

**Vincent Janowiak**  
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**Andy Vasquez**  
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## LEGO® SHIPBUILDING EVENT 2023

The Hampton Roads Naval Museum (HRNM) is having their annual LEGO® Shipbuilding event on **February 4, 2023!** The event will take place at the Half Moone Cruise Terminal, 1 Waterside Drive, Norfolk, VA. The event is completely FREE of charge and runs from 10am to 4pm. ASNE Tidewater is excited to once again be a sponsor of the event!

Pictured right are the ASNE TW Board members presenting the award to the HRNM and the Navy League of the United States - Hampton Roads, to support the upcoming Brick by Brick: LEGO® Shipbuilding event.



*Left to right:* **Chuck Doty** (ASNE TW Treasurer), **Donald Darcy** (Exhibits Specialist, HRNM), **Renée Reedy** (ASNE TW Chair), **Joe Kosteczko** (ASNE TW Vice Chair), and **Ray Weber** (ASNE Scholarship Committee).

*(US Navy Photo by Max Lonzanida/Released)*

**BRICK BY BRICK:  
LEGO SHIPBUILDING**

**FREE LEGO EVENT!**

**Saturday, February 4th, 2023  
10am-4pm**

Join us at 1 Waterside Drive, Norfolk VA 23510  
(Inside the Decker Half Moone Cruise Terminal)

**AWESOMENESS AND FUN INCLUDE:**

- Use STEM-based design plans to build ships from the keel up in our shipyard of 200+ dry docks!
- Enter your LEGO ship in the builders' contest
- Sensory room  
(quiet space for kids with a diagnosis of Autism Spectrum Disorder)
- Hands-on robotic demonstrations and professional LEGO display models

NAVAL MUSEUM  
NAVY LEAGUE  
QR CODE

A large, detailed LEGO model of a ship's hull is shown at the bottom right of the flyer, surrounded by various colored LEGO bricks.



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## 2023 HAMPTON ROADS MATE ROV COMPETITION

We want to inform our ASNE TW members to SAVE THE DATE for the 2023 Hampton Roads Marine Advanced Technology Education (MATE) Remotely Operated Vehicle (ROV) competition.

More information will follow, but here is some information from our ODU contacts:

Date: **12<sup>th</sup>-13<sup>th</sup> May 2023**

Where: **ODU Campus Pool**

POCs: **Jessica Johnson**, [j17johnso@odu.edu](mailto:j17johnso@odu.edu)

**Jennifer Renne**, [jrenne@odu.edu](mailto:jrenne@odu.edu)

“The MATE ROV Competition is an underwater robotics challenge that engages a global community of learners each year. This year, the MATE ROV Competition is highlighting the United Nations Decade of Ocean Science for Sustainable Development and inspiring our global community to embrace environmental, social, and governance (ESG) efforts to create a sustainable future on our ocean planet. The competition is challenging its community to design and build an ROV and the necessary sensors and tooling to support work to combat climate change, provide clean energy, feed our growing global population, monitor ocean health, preserve our maritime history, and ‘deliver, together, the ocean we need for the future we want!’”

The event coordinators will be reaching out to industry and partners in the new year. They will be looking for volunteers (adults and students) and sponsorship (specifically industry sponsorship). They would like ASNE members to share their [website](#) information with the companies they own or work for.

Benefits to consider:

- An opportunity to connect with the future workforce.
- A venue for outreach by industry.

“MATE's mission is to inspire and challenge students to learn and creatively apply science, technology, engineering, and math to solving real-world problems in a way that strengthens critical thinking, collaboration, entrepreneurship, and innovation.”





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**ASNE MEMBERSHIP RATES SIGNIFICANTLY REDUCED!**

**ASNE NEW MEMBERSHIP RATES**



Active-Duty Military / U.S. Gov't Personnel. Rate: ...	\$60 { Auto-Renew: \$48 }
ASNE Annual Member. Rate: .....	\$96 { Auto-Renew: \$72 }
Young Engineer Member. Rate: .....	\$60 { Auto-Renew: \$48 }
Student Membership. Rate:.....	\$24 { No Auto-Renew }
Spouse Member. Rate: .....	\$35 { Auto-Renew: \$24 }
Digital (e-membership). Rate: .....	\$72 { Auto-Renew: \$60 }
Emeritus Members. Rate: .....	\$50 { No Auto-Renew }

**CONNECT WITH SUCCESS, BECOME A NEW MEMBER TODAY!**

ASNE is excited to announce *significantly reduced* rates for all membership categories available to naval engineers and STEM advocates who support providing the best technology, education, and resources available to the naval community they serve.

ASNE has also launched a new auto-renew program that provides discounted rates (some categories at one-third to one-half the previous rate) for those who opt in.

**New Membership Rates:**

Active-Duty Military / U.S. Gov't Personnel. Rate: ....	\$60 { Auto-Renew: \$48 }
ASNE Annual Member. Rate: .....	\$96 { Auto-Renew: \$72 }
Young Engineer Member. Rate: .....	\$60 { Auto-Renew: \$48 }
Student Membership. Rate:.....	\$24 { No Auto-Renew }
Spouse Member. Rate: .....	\$35 { Auto-Renew: \$24 }
Digital (e-membership). Rate: .....	\$72 { Auto-Renew: \$60 }
Emeritus Members. Rate: .....	\$50 { No Auto-Renew }

**New Lifetime Membership Rates:**

Current age 59 and under. Rate:.....	\$1,980
Current age 60-79. Rate:.....	\$990
Current age 80+. Rate:.....	\$96

We hope that, if you are able, you will consider adding a contribution to ASNE so we can continue and expand our scholarship, professional development and STEM educational resources to active-duty personnel, veterans, young professionals and students.

Visit our website to view more information on our benefits and our new auto-renew program. Questions? Please email [membership@navalengineers.org](mailto:membership@navalengineers.org) or call us at 703-836-6727.

For information on registration, sponsorships, tabletops, and more please visit:  
<https://www.navalengineers.org/Membership/Membership-Application>



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**NEJ IS ONLINE!**

## The December 2022 *Naval Engineers Journal* is online!

Access to the digital version of the *Naval Engineers Journal* is a benefit of American Society of Naval Engineers (ASNE) membership. Members receive a print copy of the latest issue as well as access to the digital version and 134 years of content in the online technical library hosted by IngentaConnect.

[Read Now](#)

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# NEJ

3D Metal Printers on Ships Add Up to Enhanced Readiness and Warfighting Capabilities **20**

Special Section—Design Sciences Series 2022 **57**

- Concept Exploration Process, Methodology and Design Tools for Teaching Naval Ship Design **79**
- Nuisance Parameters in Design: Adding Context to Emergent Design Failure **91**
- Physics Incorporated Transport Evaluation for Preliminary Ship Designs Using Ship-Centric Markov Decision Process **101**
- Design and Modeling of the Navy Integrated Power and Energy Corridor Cooling System **113**
- Eco-friendly Suez Canal Ferries Incorporating PV/Shore Connection Hybrid Power System **127**
- Cosine Density Distribution Based Probabilistic Risk Approach for Modeling Ship Overtaking Candidates in Channels **137**
- Revision of Nomoto Model for Fast Ships **149**

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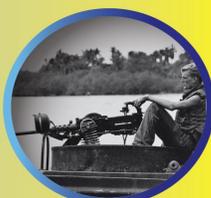


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### ORAL HISTORY PROGRAM

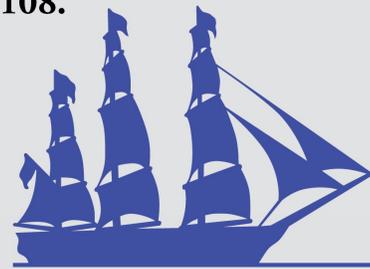
## ORAL HISTORY PROGRAM



The **Hampton Roads Naval Museum** is conducting oral histories with Navy veterans who served during or after the Cold War. If you are willing to share your experiences in recorded interviews, please contact us today.

**Why we're doing this:** To educate the public about the Navy's role from 1945 to the present day from the perspective of those who lived it. Oral histories provide active duty and the general public with a personal link to the past.

**For more information, please contact Laura Orr at [laura.l.orr@navy.mil](mailto:laura.l.orr@navy.mil) or 757-322-3108.**



HAMPTON ROADS  
**NAVAL MUSEUM**  
*Local History. World Events.*



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## ASNE 2023-2024 SCHOLARSHIP PROGRAM

# SCHOLARSHIPS

ASNE has awarded more than **600** scholarships totaling **\$1,600,000+** to undergraduate and graduate students interested in pursuing an education and career in naval engineering.

### Eligibility:

Undergraduate students during their junior and/or senior academic year and graduate students pursuing a degree related to:

- Naval Architecture
- Ocean Engineering
- Mechanical Engineering
- Marine Engineering
- Civil Engineering
- Aeronautical Engineering
- Electrical Engineering
- Systems Engineering
- Computer Science
- Engineering Technology
- Applied Mathematics and Physics
- Other related fields as accepted by the ASNE Scholarship Committee

**Application submissions are now OPEN for the 2023-2024 academic year!**

**Here is a [link](#) to the Scholarship Application, general information, and instructions.**

**The application deadline is February 6, 2023.**



**Candidates must be U.S. citizens.**

For application information or to donate to the scholarship fund, email:  
[scholarships@navalengineers.org](mailto:scholarships@navalengineers.org)

Application submissions are now OPEN for the 2023-2024 academic year

[WWW.NAVALENGINEERS.ORG/SCHOLARSHIPS](http://WWW.NAVALENGINEERS.ORG/SCHOLARSHIPS)



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**MEGARUST 2023 CALL FOR PAPERS!**



**ASNE is hosting MegaRust at the Hampton Roads Convention Center June 13-15, 2023, and the Call for Papers is officially open!**

MegaRust is conducted annually to provide a consolidated focus on Navy corrosion issues. Corrosion is a major factor in the readiness and total ownership cost of naval systems and this conference is intended to provide updated information on programs, policies, standards and Fleet experience related to corrosion and to promote discussion and sharing of information on technologies and strategies for controlling corrosion.

Submissions of both presentations and technical papers are welcomed. Presentations are sought that will provide participants the latest information and status of corrosion control programs and efforts, implementation of recently approved processes, tools and materials, best practices and lessons learned, and unmet needs looking for near term solutions. The goal is to assist those responsible for corrosion control by providing new, affordable products, processes, and solutions.

**Important Dates:**

- **March 15, 2023** - Deadline to Submit Abstract
- **April 6, 2023** - Authors Notified of Selection
- **May 5, 2023** - Draft Papers/Presentations Due
- **May 23, 2023** - Final Presentations Due

**For more information, submission guidelines or to submit an abstract, please visit:**

<https://www.navalengineers.org/Symposia/MR2023>



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**MACC IS COMING TO PORTSMOUTH!**

# Multi-Agency Craft Conference **MACC**

**June 27-29, 2023 ★ Portsmouth, VA**

### **Anchor down with ASNE at MACC!**

Join us **June 27-29** in Portsmouth, VA to experience cutting-edge craft in the in-water demos as well as a thoughtful exchange of operational and technical information on small boats and craft. This conference always brings together a wonderful cross section from government agencies, universities, corporations, and the entire maritime community.

Plus! See the 25 university-built craft race in the five-mile Promoting Electric Propulsion competition in the Elizabeth River. Cheer on your alma mater!

Sponsor, exhibitor and attendee registration is now open! Early Bird registration rates sail away quickly, so register today!

Current ASNE Corporate Support members receive priority Exhibitor / In-Water Demo location selection, and significantly discounted rates for exhibiting and sponsoring at MACC!

**For all MACC details and registration, please visit our website:**

<http://www.navalengineers.org/Symposia/MACC2023>

**Interested in sponsorship or exhibit opportunities? Email [sponsorships@navalengineers.org](mailto:sponsorships@navalengineers.org)**