SNAME

THE INTERNATIONAL COMMUNITY FOR MARITIME AND OCEAN PROFESSIONALS



POST-EVENT REPORT

SNAME MARITIME CONVENTION 2016 POST-EVENT REPORT

For more than 120 years, SNAME has brought together the brightest minds in the maritime industry to discuss, debate, learn, and shape the future of the industry. This year, nearly 1,000 attendees from more than 20 countries attended the SNAME Maritime Convention 2016 in Bellevue, Washington. With 75 presentations from around the world, three panels, and two topical breakfasts, this year's technical program was the strongest yet.

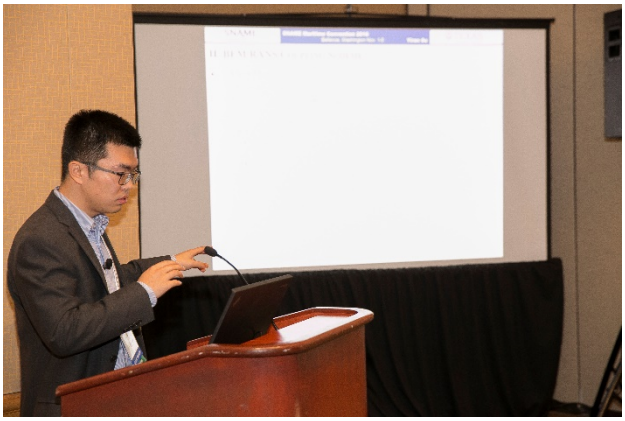
Over the course of three days, attendees heard from leading industry experts on everything from cruise line safety initiatives, to the economics of "smart shipping", how to balance and retain institutional knowledge when hiring young talent, what role autonomous technology will play in the future of shipping, as well as a myriad of hyper-specific technical content from thirteen industry tracks.

The expo featured 83 booths from diverse industry partners, ranging from coatings to bearings, engines to galley design, and everything in between. Augmented reality was on full display, with Miller Electric demoing their AugmentedArc welding system and Huntington Ingalls Industries taking attendees on a virtual tour of a rec room aboard CVN-78 (USS Gerald R. Ford).

This year, 23 teams exhibited and demonstrated active projects that have potential impact on the current and future fleet as part of the National Ship Research Program (NSRP) presented cutting-edge technologies, tools, and processes, furthering their mission to share information that ultimately reduces the cost of building, operating, and repairing Navy ships.

HIGHLIGHTS

- Over 75 technical presentations and papers featured in one of 13 tracks and across all Seven Faces of SNAME (Student, Educator/Researcher, Engineer/Designer, Manufacturer, Shipbuilder, Operator, Recycler/Salvor), included areas of discussion:



  - Autonomous Shipping & Trends
  - Design & Construction
  - Education
  - Electric Propulsion
  - Environmental
  - Ferry & Marine Highways
  - Hydrodynamics
  - Maneuverability
  - Production
  - Safety/Risk
  - Small Craft
  - Stability/Dynamics
  - Structures

- Tuesday Pre-Conference Reception at the offsite location, Tavern Hall in Bellevue Square



- **Continuing Education Courses:**
  - ***Ship Production, presented by Thomas Lamb.***
    This course presented a summary of shipbuilding best practices prepared by Thomas Lamb based on his visits to over 30 shipyards in Europe and Asia during the past 20 years, including the characteristics of successful (World Class) shipyards, shipyard layout and equipment, major shipbuilding developments around the world, Modern Shipbuilding Best Practice for hull and outfitting, launching methods, and naval shipbuilding practices. The major focus was on commercial shipbuilding but naval shipbuilding best practices was also discussed.
  - ***Wind Assist for Meeting IMO Ship EEDI, SEMP, and ECA Regulations, presented by: Geoff Uttmark, TransTech Inc. New York and Dr. Robert Latorre, University of New Orleans.***
    This course was an overview of wind assist technologies and their potential contribution to reduction of ship carbon emissions. IMO requires new ships over 500 tons meet the Energy Efficiency Design Index (EEDI). The EEDI includes wind assist designs and provides data on the wind conditions along major sea routes. It reviewed the IMO EEDI and its application to ship designs from the standpoint of both "build-in" and "bolt-on" solutions and presented the methodology to evaluate the wind assist related reduction in ship carbon emissions.
  - ***An Overview of the Design of Advanced Marine Vehicles, presented by Dr. Christopher McKesson, University of British Columbia.***
    The naval architect's toolbox includes hull forms other than mono-hulls. This short course introduced the design of these craft, providing a practicing naval architect with tools for understanding the niche that each one occupies – i.e. when this hull form might be the most appropriate for the mission – as well as an overview of the nuances of each one's design. This the theme of course can be described as "What are the AMVs, what are they good for, and what is unique about designing them?"

- **NSRP**
  This year, 23 teams exhibited and demonstrated active projects that have potential impact on the current and future fleet as part of the National Ship Research Program (NSRP) presented cutting-edge technologies, tools, and processes, furthering their mission to share information that ultimately reduces the cost of building, operating, and repairing Navy ships.



- **Seven Faces of SNAME:**
  President Joe Comer, 2015-2016 kicked off the convention with a direct message to attendees about knowledge and how SNAME sees the big picture through its members, its leadership, its volunteers:

"Why do all of you—our staff and many other volunteers—work so hard to make SNAME work? We think it's about knowledge—the creation of knowledge and the sharing of knowledge...All seven faces of SNAME have a hand in this knowledge effort. We learn the fundamentals of this knowledge as students. We create and spread knowledge as educators and researchers. We use this knowledge as designers and engineers, ship-builders,



operators, equipment manufacturers, and recyclers and salvors. And most important, we share this knowledge between and among everyone in SNAME. It takes all of us together to be the best for our industry. Think of it. What other organization has a knowledge base this broad...But SNAME is the only one that sees the big picture. That's why this is so exciting. This is what creates the passion we have for what we do. This is why we want to be members of SNAME, it's why everyone in the maritime industry should be a SNAME member."

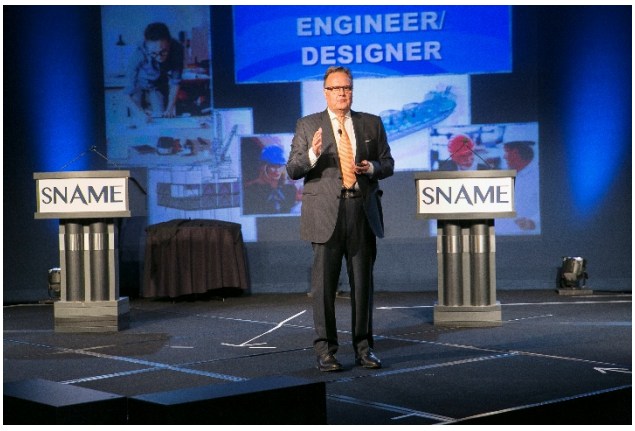
- **Opening Plenary Session:**
  Featuring Keynote Speaker, Martin Stopford, Executive Director, Clarksons PLC on the international economics of smart shipping. Mr. Stopford also participated on the panel, Autonomy in Shipping.



Martin Stopford addressed the onset of smart shipping, specifically what the smart shipping revolution entails. In discussing future vision for smart shipping, Stopford highlighted the past revolutions in shipping and the failed attempts of innovation rooted in hardware, the current performance problems plaguing sea transport, and why smart shipping has suddenly become viable. Stopford's speech revolved around the idea of connected systems—future ships will have centralized computers capable of communicating with sensors spread throughout the vessel, preempting system failures through a constant feedback loop. His keynote served as a teaser for the Autonomy in Shipping panel that took place the following morning.

- **Annual Banquet:**
  The SNAME Annual Banquet is always a highlight of the Annual Meeting. Following a hearty meal, SNAME presented its highest awards and honors, including SNAME medals. Keynote Speaker and the Elmer A. Sperry Award winner, Harri Kulovaara, Executive Vice President of Maritime, Royal Caribbean Cruises Ltd.

Harri Kulovaara outlined Royal Caribbean's culture of innovation in the cruising industry, touching on the company's past, present, and future developments. Kulovaara touted Caribbean's latest addition to their award-winning Oasis Class fleet—Harmony of the Seas—as an engineering marvel, incorporating the most advanced safety, environmental, and passenger experience initiatives. "We do not set out to build the largest ships in the world; we set out to build the most amazing collection of experiences, amenities, and activities at sea." – Harri Kulovaara



Royal

- **President's Luncheon:**
  SNAME offers numerous Awards in recognition and professional achievement within the maritime industry. The awards were formally presented to various individuals to contributions made to both SNAME and the overall industry. The Keynote Speaker was Global Diving & Salvage's Kris Lindberg.



Kris Lindberg walked the audience through what happens after receiving a call for salvage, how his team works to ensure vessel integrity, and how they navigate the complex regulations of each flag state. Lindberg outlined the challenges salvage crews face when arriving on scene, which can range from stabilizing an oil rig, to towing a vessel, to decommissioning dry docks. The audience saw case studies of salvage calls Global responded to around the world. Also featured during the luncheon, Global Diving & Salvage's custom motorcycle modeled after the classic Mark IV diving helmet, which President Joe Comer took a particular shine to.

- **Marty Toyen: 52nd President of SNAME**



Marty Toyen, President-Elect would officially take the role of President on 1 January 2017 as the 52nd President of SNAME. During the President's Luncheon, he challenged the membership. "One of our ongoing initiatives is membership, which is SNAME's fuel and its lifeblood. Without members, we don't have a SNAME. For those here today, I want to hear from you about how we can improve the value of membership and how we can attract new members. The best tool we have to keep SNAME strong is your willingness and effort to find new members. This is up to all of us. So, I have a challenge for you. I'd like to see this entire organization achieve a net gain of 325 new paid members by this time next year. Let's continue our growth as we look toward 2017."

- **Panels:**
  - ***Shipicon Valley: Fresh Blood. New Tech. So Many Questions, led by Josh Horst, Glosten.*** Our industry is faced with an aging workforce being slowly replaced by a tech-savvy generation that needs to learn the ropes -- fast. Builders need to sift through new technologies with big promises for boosted productivity, faster training, and easier collaboration with designers, suppliers, and operators. How do we capture knowledge from experienced craftspeople and pass it on? What are the obstacles and opportunities involved with transitioning from 2D to 3D design deliverables? How should digital production information be communicated to the shop floor? What should the faces of SNAME be doing to step up their game? What are we not thinking about, but should be?
  - ***Autonomy in Shipping, led by Todd Groves, President, ABS Group; Peter Wallace, Naval Architect, Deepwater Technology, Shell Trading US Company; and Jacob Genauer, Senior Naval Architect, Braemar Engineering.***



Autonomy is today. More than a buzzword, increasing levels of autonomy and connectivity are already reshaping industries to be more responsive, more efficient, and safer than the technologies of yesteryear could support. This diverse panel of engineers and economists spoke about ways that autonomy and connectivity in marine systems will reshape our industry, chart a path to such a future, and address risks and challenges we shall face along the way.

- ***LNG as Fuel, led by Joe Cox, Cox Maritime.***
  Attendees heard from front line operators using this energy source, what regulators have to say, how suppliers are approaching the market, as well as international and domestic US issues confronting anyone thinking to make the plunge into this market.

- **Topical Breakfasts:**
  - ***Global Cruise Ship Industry Safety Initiatives, presented by Robert Griffiths, Director of Technical and Regulatory Affairs, Design and Engineering, Cruise Lines International Association (CLIA).***
    As the global voice for the cruise industry, CLIA actively represents 62 cruise line companies operating more than 250 ocean, river and specialty cruise ships—more than 95 percent of global cruise capacity. Our industry has committed to over US$30 billion to building the most creative and exceptional passenger ships ever envisioned. Safety is woven into every aspect of the cruising experience, from innovative ship design to operational procedures to crew training. To support this, CLIA advances policies that are intended to enhance shipboard safety in some cases calling for best practices in excess of existing legal requirements. Attendees explored CLIA's role and industry representation as it relates to the cruise industry safety performance as well as enhancing cruise industry knowledge and cooperation through collaboration and future industry wide initiatives and their effect on safety systems.

  - ***Innovation in the Airline Passenger Experience, presented by R. Blake Emery, Director of Differentiation Strategy, Boeing Commercial Airplanes.***
    In the 21st century, engineers need to look beyond traditional stovepiped sources of experience as they develop solutions to complex technical challenges. While each technical community may be proficient in its own area, many communities share underlying needs and challenges. Perhaps nowhere is this more evident in the challenges of integrating the human element into to advanced technology. Be it a proficient operator or a member of the general public, humans are increasingly impacting and impacted by our rapidly advancing society. SNAME recognizes the opportunity to learn from our sister engineering disciplines. Many of our members began their education in Aerospace Engineering. Of historical note, many of the leading schools of Aeronautical Engineering were originally established by experienced naval architects. The Seattle area is home to the most advanced aerospace community in the world and the world's leading aircraft manufacturer. This was an exceptional opportunity to think about some of the human challenges of technological innovation from another industry's perspective; and, perhaps, to see a "new approach" to human integration aboard ships.

- **Student Program:**
  This year, the Student Steering Committee and the Student Section Leaders worked hard to specifically tailor this year's Student Program to reflect the international membership of SNAME. This reflects the changing shift in our industry that is becoming ever more globalized, and should provide all of us with an even more networking opportunities than the previous SNAME Maritime Conventions and Annual Meetings. Discover your passion. Share your passion. Live your passion. Explore your passion.





- Student Congress & Elections: Students ran for one of the six elected positions for the SSC for 2017. The SSC organizes the student programs for the Council Retreat in the Summer and the SNAME Maritime Convention each fall.
- Student Design Competition: Student attendees were randomly grouped together in teams and challenged to build the winning vessel using only the most minimal supplies, including duck-tape, cardboard, glue-sticks, and pipe cleaners. The three teams were presented with cash prizes and
- Student Papers and Presentations: Over 15 abstracts were submitted to the technical program with the top three papers selected.
- Student & Industry Roundtable Session: Over 10 industry experts were grouped with students in a timed rotation session. Every 15 minutes, groups rotated to another expert and topic.
- Student Job Fair: Students, Young Professionals, and all interested attendees were given the opportunity to meet and interview with representatives from over 20 maritime and ocean companies.
- Student Microsite Competition: Each Student Section with a microsite could enter the competition in areas of best overall, best social media presence, and best recruitment platform.



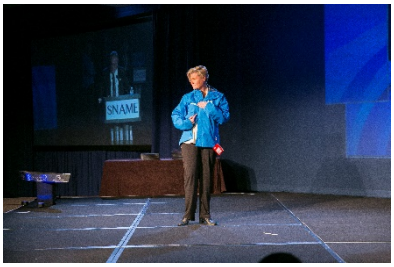


- **Young Professionals Program:**
  As a Young Professional (YP) building traction in this challenging economy, YPs will gain skills and meet people that will be invaluable for decades to come. YPs started the event with a Wednesday afternoon workshop on productive networking to ensure you are ready to take full advantage of the SMC opportunities. This is building on the success of several years of soft-skills workshops for YPs aimed at honing the business skills not learned in school. The Program followed with two networking events, the first being the Student-YP social where you can reconnect with students from your alma mater. Later in the evening the YPs retired to a local establishment to connect with peers from around the world. Engaging with professionals from around the industry will not only serve YPs personally for years to come, but will also bring great value to companies in the form of a wide range of potential employees, clients, and specialist contractors.



Productive Networking for Young Professionals Workshop, ***presented by Robyn Davis, Trade Show Strategy Specialist***
Arguably one of the most important soft skills a young professional can develop is productive networking because that's how we meet the professionals who will hire us, collaborate with us, buy from us, and connect us to other opportunities (that's also how we will meet the professionals we hope to inspire one day). This is something that many older professionals struggle with, so learning the right way to network early on can be very beneficial as a skill used repeatedly over the years and as a point of differentiation. Also, this is a skill that is transferrable - if you can network productively at work, you'll be able to network productively in your personal life (making obligations like family gatherings, weddings/social events, and even making new friends post-grad easier and more enjoyable).

- **Membership**
  SNAME continued to expand the membership focus at the SNAME Maritime Convention. Members who renewed at SMC were entered into a drawing for a custom Helly Hanson jacket. The jacket was imprinted with SNAME's logo and the winner's name. Guido Perla won the jacket at the Welcome Reception. People who renewed were also given "I Renewed Did You?" ribbons to wear on their badges.





The Membership Committee and Sections Committee held a joint meeting on 2 November 2016. The meeting started with an overview of the New Member Onboarding Plan and the 2017 Renewal Call Out plan. This was followed by a discussion about section best practices. The membership brochure was discussed and the decision was made to host a photo contest for the membership and sections committees to choose a new photo.

Distinguished Awards and Medals

- **SNAME Medals:**
  - **The David W. Taylor Medal**, for notable achievement in naval architecture and/or marine engineering, presented to **Professor Dracos Vassalos**, The University of Strathclyde, Glasgow, Scotland.
  - **The Dr. Kenneth S. M. Davidson Medal**, for outstanding scientific accomplishment in marine research presented to **Torgeir Moan**, Norwegian University of Science and Technology - Department of Marine Technology
  - **Elmer A. Sperry Award 2016**, given in recognition of distinguished engineering contribution which, through application, proved in actual service, has advanced the art of transportation whether by land, sea, air or space, presented to **Harri Kulovaara**, Executive Vice President of Maritime, Royal Caribbean Cruise Lines Ltd.
  - **The Vice Admiral Emory S. "Jerry" Land Medal**, for outstanding achievement in the marine field, presented to **William L. Hurley, Jr.**, Chairman, Glosten.



- **SNAME Awards:**
  - **The William M. Kennedy Award**, presented to Mr. Harvey B. Walpert.
  - **American Bureau of Shipping Captain Joseph H. Linnard Prize**, presented to Naohiko Kishimoto, Fujio Kaneko, Akio Usami, Hiroki Kusumoto, and Takehiro Inoue.
  - **Vice Admiral E. L. Cochrane Award,** presented to Franz von Bock und Polach, Soren Ehlers, Stein Ove Erikstad.
  - **Elmer L. Hann Award**, presented to Huyn Chung, Junghyun Lee, Wooyoung Choi, Mineseok Kang.
  - **Faculty Advisor of the Year Award**, presented to Dr. Krish P. Thiagarajan, University of Maine.
  - **Bruce and Dorothy Rylander Johnson Faculty Advisor of the Year Award**, presented to Razieh Zangeneh, University of Maine.
  - **Graduate Paper Honor Prize**, presented to Dongchi Yu and Pierre Lecointre, University of California at Berkeley for their paper, "Numerical and Experimental Analysis of Wave-Resistance Reduction of Asymmetric Di-Hull Systems by Exploiting Interference Effects."
  - **Undergraduate Paper Honor Prize**, presented to 1/c Kasun Athukorala, 1/c Avery Fanning, 1/c Matthew Orgill and 1/c Michael Shermot, United States Coast Guard Academy for their paper, "The Modular Patrol Cutter A solution to the U.S. Coast Guard's need for a new affordable cutter."
  - **Certificates of Appreciation**, presented to
    - **Dr. Hans-Georg Payer**, for over 11 years of service and active participation on the Fellows Committee.
    - **Dr. Matthew Tedesco,** for his dedicated service and active participation as the Editor of *(mt)*.
    - **Dr. David Singer**, for six years of service and active participation as the chair of the JSPD Committee.
    - **Bruce Rosenblatt**, for 22 years of service and active participation on the SNAME Maritime Convention Committee.
    - **Todd Grove,** in appreciation for serving as the Chairman of the World Maritime Technology Conference 2015.
    - **Roger Basu**, in appreciation for serving as the Co-Chairman, Technical Program of the World Maritime Technology Conference 2015.
    - **Dr. Krish Thiagarajan**, in appreciation for serving as the Co-Chairman, Technical Program of the World Maritime Technology Conference 2015.
    - **Mary Saady**, for her years of NSRP Support and her support of the SNAME Maritime Convention and the SNAME Maritime Convention Committee.
  - **The Lisnyk Student Design Competition**, presented to:
    - 1st Place: "Concept of a Multipurpose Pollution Control Vessel," University of British Columbia. Team Members: Oleksiy Serdyuk, Vincent Chung, James Cardno, Jaden Jae Young Yoo. Faculty Advisor: Jon Mikkelsen.
    - 2nd Place: "The Modular Patrol Cutter," United States Coast Guard Academy. Team Members: 1/c Kasun Athukorala, 1/c Avery Fanning, 1/c Matthew Orgill. Faculty Advisor: CDR Thomas W. DeNucci.
    - 3rd Place (Tie): "Ice Hardened Medium-Sized Combatant Design Proposal," University of Michigan. Team Members: Taylor Allen, Andrew Earhart, Robert Emmitt, Mark Parra-Shostrand. Faculty Advisor: Matthew Collette, PhD, PE.
    - 3rd Place (Tie): "Design of a Chemical Tanker with a Composite Sandwich Structure and Duel-Fuel Capability," Maritime College, State University of New York. Team Members: Nathan Nelson, Luke Levasseur, Jonathan Nothacker, Donald Flaherty, Stephen Herrington. Faculty Advisor: Professor Charles J. Munsch.

Fellows:

John Bonafoux
Hyon-Soo Bon
Michael Carroll
H. Paul Cojeen
Jurek Czujko
Glen Grogan
Igor Guz
John Hatley
Russell Hoffman
Keith Hutchinson
Patrick Janssens
Chengi Kuo
Panagiotis Laskaridis
Keith Lilley
Jennifer Lin

Ramesh Maini
John Manning
Michael Martin
Jon Mikkelsen
Torgeir Moan
Calvin Norton
Richard Royce
John Stiff
Jason Strickland
Tony Teo
Krish Thiagarajan
George A. (Sandy) Thomson
Michael Triantafyllou
Brian Veitch

50-Year Golden Membership Certificates:

Charles Alexander, Jr.
Robert Beck
Ronald Brewer
Stephen Callis
Chrys Chryssostomidis
William Day, Jr.
Thomas Diamant
Marjorie Dunn
Jerome Feldman
Peter Fontneau
John Glaeser
Mehmet Goncer
Michael Goodwin
Albert Green
Russell Greenlaw
Paul Halvorsen
William Hockberger
Chi-Chao Hsiung
Rong Huang
Ake Jansson
Ralph Johnson
Emlyn Jones
Hugh Kaiser
Robert Keane, Jr.
Virgil Keith
William Keller
Thomas Koster
Robert Major
John Marks
William McCreight
Edward Middleton
Eduard Nabbe
Brian Nixon
Charles Olsen
John Ordway
Francis Packer
Hans Payer
James Royle
James Sandison
Siew Seeto
Young Shen
Eugene Silva
Paul Snyder
Peter Tarpgaard
Carlos Tomassoni
Bob Wallstrom
Robert Walsh
Wade Webster
David Whitten
Richard Whitwell
Alan Winkley

8th Annual SNAME Cup Regatta:

The regatta capped off SMC 2016, with 24 sailors from competing in J22 sailboats on Seattle's Lake Union. The winning boat was sponsored by Lloyd's Register and skippered by Dan McGreer of Vard Marine, who won his 4th SNAME Cup. He was joined by Ben Thompson of Lloyd's Register, Gaelen Krause of Alion Canada, and Dave Tolman of BC Ferries.

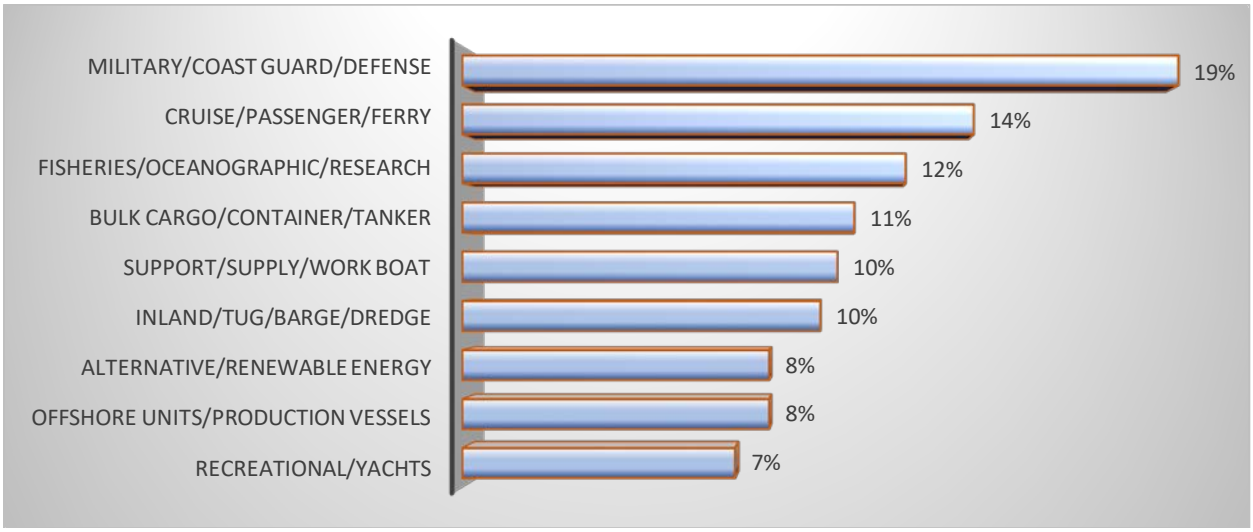


SNAME Maritime Convention Committee, 2016

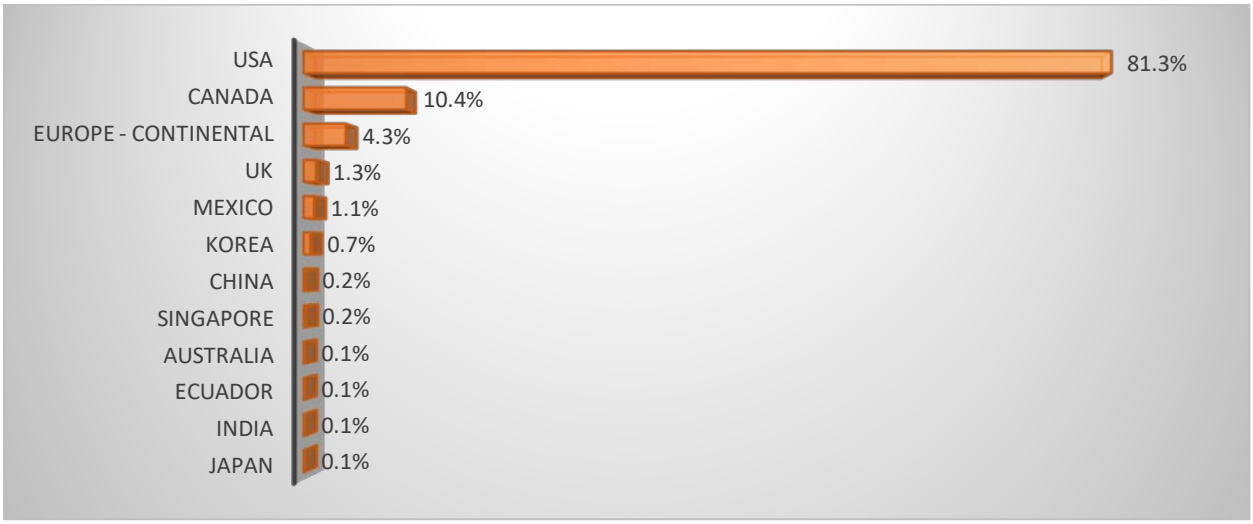
Ed Stokes, Chair
Rick Ashcroft
Roger Basu
Joe Comer, President, 2015-2016
William Cowardin, Jr.
Todd Grove
Nathan Hagan
Sofia Iliogrammenou
Gaelen Krause
Ken Lane
Nicholas Laney
Ed Lewandowski
Jennifer Lin
Tom Mackey
Richard Mueller
Peter Noble
Henry Reeve
Lars Ronning
Rick Spaulding
Rebecca Sisson
Krish Thiagarajan
Marty Toyen
Barr Tuner
Glenn Walters
Dave Weidner

ATTENDEE OVERVIEW

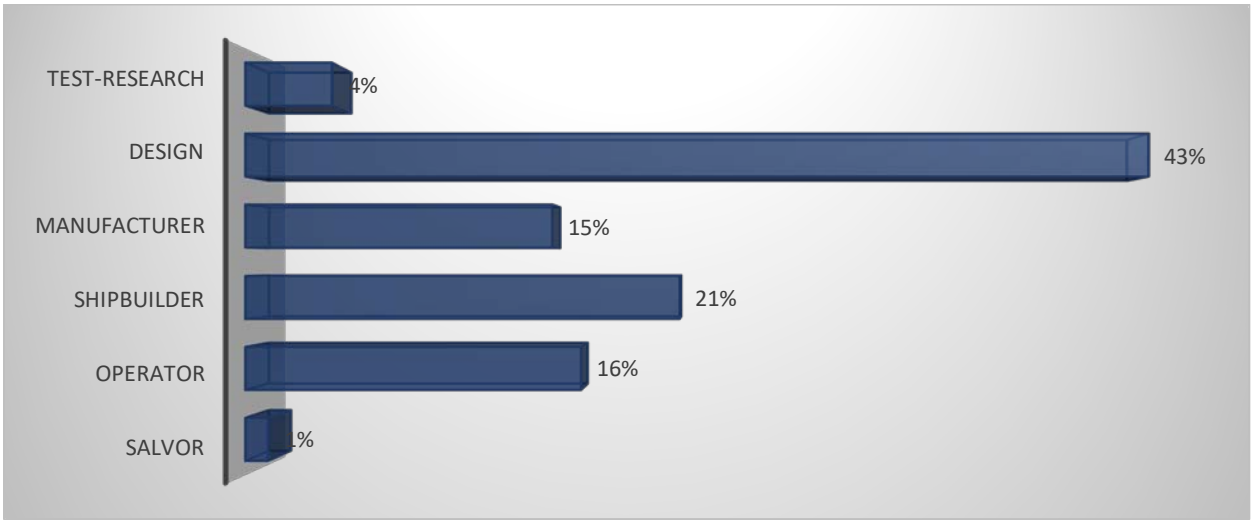
Industry Sector:



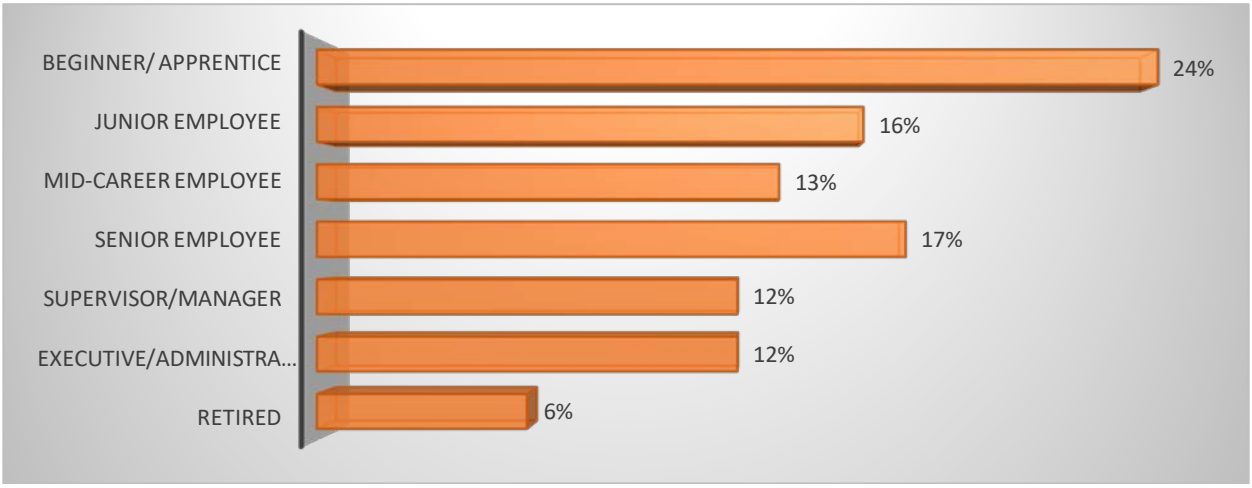
Attendees by Country (via registration data):



Attendees by Faces of SNAME (Vessel Lifecycle) (via Post Survey):



Career Level (via Post Survey):



94% of attendees reported satisfied with the event overall.

98% attended the EXPO area during the event.

33% of attendees were first-time SMC participants.

93% of attendees would recommend the SMC to others.

82% felt the SMC was better or the same as previous events.

92% of attendees found the SMC useful for their professional development.

EXHIBIT HALL











HIGHLIGHTS:

- 83 Total Exhibitors
- 17,745 square feet
- Hands-on Demos:

Augmented Arc: Augmented Reality Welding System, sponsored by Miller Electric Welding Co. and Metal Shark Aluminum Boats



The AugmentedArc system closely simulates and resembles live-arc welding— without using an actual arc or consuming wire, shielding gas or coupons. AugmentedArc offers intuitive, easy-to-understand setup assistance and objective, post-weld feedback to help users quickly gain experience and develop proper welding techniques in SMAW, GMAW, FCAW and GTAW processes.

Augmented Reality Technology with HII, presented by Huntington Ingalls Industries

Step aboard the CVN-78 (USS Gerald R. Ford) and visit a rec room in Augmented Reality (AR). Huntington Ingalls Industries will have a mock-up (a fabric "wall") of a recreational room from the first-of-its-class aircraft carrier. You will be able to experience different ways that AR technology can be utilized in design, inspection, maintenance, build, work flow, operations, training and other areas. AR overlays digital information on the world as we see it, giving human beings enhanced access to information that is stored in the digital domain. Tables, drawings, forms – of course, but also video, animations, audio files, and product model meta-data. No more access to desktop computers is needed; no need to walk away from a maintenance site to a cabin or locker to access information. The Huntington Ingalls Industries Newport News Shipbuilding Augmented Reality division will display and demonstrate an array of their augmented reality capabilities using the Apple iPad and Microsoft Hololens that are currently used to build, maintain, and train on the ships they build.

9 Innovation Sessions:

- HVAC Design Solutions - Safety and Loss Prevention
- Safety Solutions for Cable Transits
- New Advances in Epoxy Protective Coatings
- Stainless Steel, push-fit drainage systems: Value at every stage
- Reducing Operational Fuel Cost
- Are we at a point of inflexion in the role of Computational Fluid Dynamics (CFD) in the Marine Transport Industry?
- An Electrochemical Approach for Oily Bilge Water Treatment
- Atypon Demo
- Tomorrow's Shipbuilding Software Solutions Today

Participating Exhibitors:

Company	Web Site
ABS	www.eagle.org
Allied Systems Inc	www.alliedsystems.com
Altair	www.altair.com
American Sprayed Fibers Inc.	www.asfiusa.com
Appleton Marine	www.appletonmarine.com
Auros Knowledge Systems LLC	www.aurosks.com
AutoNav	www.autonav.ca
Av-DEC	www.avdec.com
Ayres Composite Panels USA	www.ayrescom.com
Baier Marine	www.baiermarine.com
Berg Chilling Systems Inc.	www.berg-group.com
Blue Ocean Solutions Pte Ltd	www.blueoceansoln.com
Brass Works	www.thebrassworksinc.com
Bronswerk Marine Inc.	www.bronswerkgroup.com
Bureau Veritas	www.veristar.com
C&C Panasia Inc.	www.ccpanox.com
CD-ADAPCO	www.cd-adapco.com
Creative Systems Inc	www.ghsport.com
Cruise Lines International Association	www.cruising.org
DEANSTEEL MFG CO.	www.deansteel.com
Delta Marine Technik LLC	www.DeltaMT.net
Dometic USA	www.dometicusa.com
Dominis Engineering Ltd	www.dominis.ca
DRS Technologies Advanced Marine Technology Center	www.maestromarine.com
Elliott Bay Design Group LLC	www.ebdg.com
EMS - Electronic Marine Systems Inc	www.emsmarcon.com
EnergynTech Inc.	www.energyntech.com
Fireboy -Xintex	www.fireboy-xintex.com
Fluid Power Energy	www.FPEvalves.com
Galley Design and Sales	www.galleydesignandsales.com
General Dynamics - Electric Boat Div	www.gdeb.com
HF scientific, a Watts Brand	www.hfscientific.com
Hosco Fittings LLC	www.hosco.net
Howell Laboratories	www.howelllabs.com
Huntington Ingalls Ind.	www.nns.huntingtoningalls.com
InnovMarine Inc	www.InnovMarine.com
IRISS Inc.	www.iriss.com
Jastram	www.jastram.com
Jotun Paints	www.jotun.com
Kidde Fire Systems	www.kiddefiresystems.com
LGI Forensic Engineering P.C.	www.lgiforensic.com
M.A.R.S.	www.fluoron.com/mars.htm
MAN DIESEL & TURBO NORTH AMERICA	www.mandieselturbo.us.com
Marin NL	www.marin.nl

Company	Web Site
Maritime Reporter and Engineering News	www.marinelink.com
Markey Machinery	www.markeymachinery.com
Mechanic Light	www.mechaniclight.com
Nautican	www.nautican.com
Noise Control Engineering LLC	www.noise-control.com
NORTHERN LIGHTS INC	www.northern-lights.com
NSRP	www.nsrp.org
NUMECA USA INC	www.numeca.com
Orbijet Inc	www.orbijet.com
Panel Specialists Inc.	www.PanelSpec.com
PPG Protective Coatings	www.ppgpmc.com
Prime Mover Controls	www.pmc-controls.com
Pyrotek Inc.	www.pyrotek-inc.com
Resolve Maritime Academy	www.resolveacademy.com
Robert Allan LTD	www.ral.ca
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