

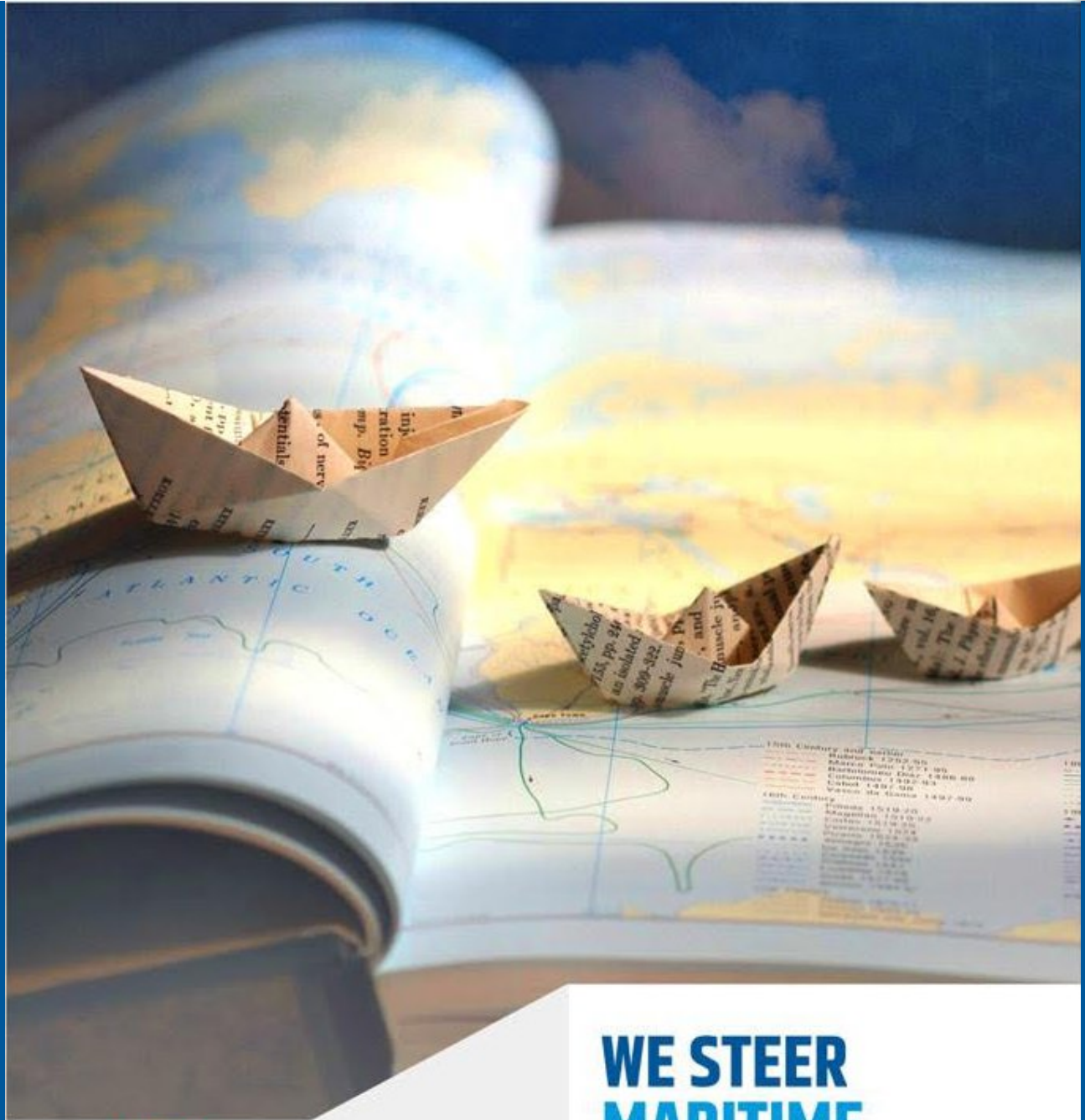
INSTITUTE OF  
**MARINE**  
Engineering, Science & Technology



## **NEXT GENERATION MARINE ECOSYSTEMS:**

*Enabling  
Decarbonization,  
Digitalization and  
Electrification for  
Sustainability*





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## WE STEER MARITIME DREAMS TO REALITY.

Using modern tools that guarantee efficiency and effectiveness, we are developing the Nigerian Maritime sector and creating an enabling environment for all stakeholders to operate.

- Ship Registration
- Search And Rescue
- Cabotage Enforcement
- Shipping Development
- Maritime Labour Regulation
- Maritime Safety Administration
- Maritime Capacity Development
- Training And Certification Of Seafarers
- Marine Pollution Prevention And Control

#WeAreNIMASA

REGULATORY | OPERATIONAL | PROMOTIONAL | CAPACITY BUILDING



## At-A-Glance

### WHO WE ARE

Founded in 1862, ABS is a global leader in providing classification services for marine and offshore assets. Our mission is to serve the public interest as well as the needs of our members and clients by promoting the security of life and property and preserving the natural environment. ABS' commitment to safety, reliability and efficiency is ever-present.

### WHAT WE DO

#### TRUSTED ADVISOR

Today, ABS is working in a rapidly changing business environment where global markets are shaped more frequently by digital technology and data analytics. We are applying advanced technology, digital tools, capabilities and improved core processes to drive safety excellence, greater performance and efficiency, generating greater value for our members and clients. ABS continues to be a trusted advisor and partner, supporting marine and offshore business ventures for both traditional and non-traditional clients.

#### AGILE, BETTER, STRONGER

Moving quickly and easily, ABS provides solutions that add greater value to our clients, making us stronger every day.

- Surveys during and after construction
- Compliance audits
- Development of standards known as Rules
- Engineering research and development
- Technical plan reviews and design analysis
- ABS CyberSafety™ Program
- Asset Reactivation
- Remote Survey and Audits
- Sustainability and Compliance Services
- Digital Solutions

### WHERE WE WORK

#### NORTH AMERICA REGION

Houston, Texas  
Email: [ABS-Amer@eagle.org](mailto:ABS-Amer@eagle.org)

#### SOUTH AMERICA REGION

Rio de Janeiro, Brazil  
Email: [ABSRio@eagle.org](mailto:ABSRio@eagle.org)

#### EUROPE REGION

London, UK  
Email: [ABS-Eur@eagle.org](mailto:ABS-Eur@eagle.org)

#### AFRICA AND MIDDLE EAST REGION

Dubai, UAE  
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#### GREATER CHINA REGION

Shanghai, China  
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#### NORTH PACIFIC REGION

Busan, Republic of Korea  
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#### SOUTH PACIFIC REGION

Singapore  
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#### WORLD HEADQUARTERS

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## **NEXT GENERATION MARINE ECOSYSTEMS**

### **Enabling Decarbonization, Digitalization and Electrification for Sustainability**

October 31st, 2023 (0800 -1700 hrs.) – followed by a post conference reception

**0800 – 0830** Registration and coffee / light breakfast

**0830 – 0845** Welcome Address and Recognition of Sponsors & Key Stakeholders

*Dr. Nimi Abili - IMarEST Houston Branch Chairman*

**0845 – 0900** Video Greeting from U.S. Senator John Cornyn

*Sen John Cornyn - United States Senator from Texas*

**0900 – 0915** Keynote Speaker – Role of Shipping in the Global Energy Transition

*Dr. Bashir Yusuf Jamoh, OFR – Director General, NIMASA*

**0915 – 0935** Keynote Speaker – Economic and Commercial Perspectives for the Marine and Energy Technology Adoptions

*Ram Shenoy – CEO, RBR Group*

**0935 – 1035** Panel Discussion: Future Fuels and their impact on Shipping- Energy, Climate and Security

- Discuss the challenges and opportunities of using alternate ship fuels, such as hydrogen, methanol, ammonia, biofuels, LNG bunkering and Nuclear.
- Examine the economic and social implications of transitioning to a low-carbon maritime sector
- Explore the technical and regulatory barriers that need to be overcome to enable the widespread adoption of alternate fuels, such as safety, availability, cost and compatibility
- Hear recommendations for policy makers, industry stakeholders and researchers to foster innovation and collaboration
- Find out how shipping companies and ports are responding to increasing pressure from freight owners and charterers.

**Moderator:** **Peter Wallace** – *Principal Engineer - Risk and Regulatory Advisory, Lloyd's Register*

#### **Speakers:**

**Peter Noble** – *President & Senior Advisor, Noble Associates Inc.*

**Dr. Krishnamoorti Ramanan** – *VP President of Energy Transition - University of Houston*

**Joshua Padeti** – *Senior Engineer at American Bureau of Shipping's Global Sustainability Center in Houston.*

**Peter Fitzpatrick** – *VP of Shipping – Next Decade LNG*

**1035 – 1100** Coffee / Tea

## 1100 – 1200 Panel Discussion - Emerging Best Practices and Technologies in Maritime Sustainability

- Explore the sustainability initiatives and practices of various maritime stakeholders
- Learn from experts who have adopted energy-efficient technologies on their vessels
- Hear examples of technologies including renewable energy sources, smart sensors, and hybrid propulsion systems
- Examine the benefits of these technologies include lower fuel consumption and greenhouse gas emissions

**Moderator:** **Joseph (Joe) Rousseau** – *Director – Offshore Technology, ABS*

### Speakers:

**Altaf Shaik** – *Principal Engineer - Liquid CO2 Carriers*

**Juha Laukka** – *Product Director, RotoBoost*

**Chase Dwyer** – *CEO – Carbon Ridge*

**Nick White** – *President/co-founder, ezNG Solutions*

## 1200 – 1330 Lunch

## 1230 – 1300 IMarEST and Maritime Museum Community Joint Public Outreach

**Tom Johnson**, – *Former Board Chairman of Houston Maritime Center*

## 1330 – 1345 Keynote Speaker – Marine Electrification and the Future of Decarbonization

**Anthony Teo** – *VP RightShip Americas*

## 1345 – 1445 Presentation - Pathways to Net Zero in Enabling the Energy Transition

- Learn about best practices and lessons learned from existing initiatives and projects on decarbonization
- Explore Modeling and Simulation to support decarbonization decisions Across value chain and Lifecycle in Maritime
- Learn about Nuclear Energy for Shipping Decarbonization
- Examine Batteries and Fuel Cells for Short Sea Shipping
- Explore ways to foster cross-sectoral collaboration and innovation among port authorities, shipping companies, terminal operators, and other stakeholders

**Chair:** **Rosevelt Fernandes** – *Director, Business Development, ABS*

### Speakers:

**Shilpa Mesineni** – *Senior Engineer II, Technology, ABS*

**Shankar Vidyanathan** – *Senior Sustainability Engineer, Global Sustainability Center, Houston, ABS*

**Meg Dowling** – *ABS Corporate Technology Engineer, Nuclear Programs Lead, ABS*

**Mejdi Kammoun** – *Principal Engineer, ABS*

## 1445 – 1500 Coffee / Tea

**1500 – 1530**     **Keynote - Digitalization of the Marine Ecosystem**

**Jennifer Trageser** – *VP of Digital Solutions, ABS Wavesight*

**1530 – 1700**     **Panel Discussion – Electrification and Digitalization: A Sustainable and Innovative Solution for the Maritime Industry**

- Find out how electrification can lower emissions and fuel costs for the maritime sector
- Learn how electrification can also spur innovation and digitalization in the industry
- Hear from experts from different segments who will share their insights and experiences on electrification
- Explore ways electrification can improve operational efficiency, safety, and competitiveness for various types of vessels
- Discuss how electrification can enable the use of battery power and renewable energy sources for ferries, tugboats, and offshore support vessels
- Learn how digitalization enhances marine and offshore shipping performance and sustainability
- Find out what are the benefits and challenges of implementing digital solutions in the marine ecosystem
- Explore how to leverage data, analytics, edge computing, IoT, digital twin, automation, and cybersecurity to optimize logistic operations and maintenance
- Examine what the best practices and engineering solutions are for future-proofing the marine and offshore energy sectors

**Moderator:**     **Greg Trostel** – *Global Industry Development Manager, Rockwell Automation*

**Speakers:**

**Guillaume Vileyn** – *Senior Electrical and Fire Safety Surveyor, BV*

**Sharat Valluri** – *Technology Director - Data and Digital Applications, ABS*

**Subrat Nanda** – *Chief Data Scientist, ABS*

**Thalía Krüger** – *Senior Business Development Manager, Principle Power*

**1700 – 1715**     **Summary of the day’s proceedings and closing remarks**

**Rajnish Kelkar** - *Vice Chair, IMarEST Houston Branch*

**1715 – 1730**     **IMarEST Long Service Award (presented by DG of NIMASA, Dr. Bashir Yusuf Jamoh and IMarEST Chairman, Dr. Nimi Abili), and CPD Award Pictures for Speakers and Moderators**

**1730 – 1900**     **Post Conference Refreshments and Networking**



## **John Cornyn**

*United States Senator,*

Senator Cornyn's leadership spans across industries in sponsorship of the LEADING Act which incentivizes research and development of carbon capture technology. His work also advances hydrogen infrastructure through the Hydrogen Infrastructure Finance and Innovation Act, Hydrogen for Ports Act, and Hydrogen for Industry Act, all of which demonstrates his commitment to an environmentally sound energy supply, and a compelling vision for a clean and innovative energy future.

Find out more:

<https://www.cornyn.senate.gov/about/>

<https://www.cornyn.senate.gov/key-issues/energy-environment/>



## **Dr Bashir Yusuf Jamoh OFR**

*Director General/CEO, NIMASA*

Bashir Yusuf Jamoh (Ph.D), the Director General, NIMASA has over 29 years of public service experience. He had served in the Kaduna State Government before transferring his services to the then National Maritime Authority (NMA) in 1994.

Dr. Jamoh was until this appointment the Executive Director, Finance & Administration in NIMASA. Prior to that, he was the Assistant Director in NIMASA in charge of Training and Development. He had the privileged experience of serving not only in executive management, but also in the operations and administrative departments in NIMASA at management level and brings this knowledge to bear on his new assignment. He is the author of the book, "Harnessing Nigeria's Maritime Assets - Past Present and Future".

Dr. Jamoh holds a Ph.D in Logistics and Transport Management from the University of Port Harcourt, a Master's degree in Management from the Korea Maritime and Ocean University in South Korea, an Advanced Diploma in Management from the Bayero University Kano, a Professional Certificate in Materials Management from the Institute of Logistics in the UK and a Diploma in Accounting from the Ahmadu Bello University Zaria.



## **Dr Nimi Abili Ph.D, MBA, MSc, BEng, CEng, CMarEng, Fellow**

*Chairman and Chief Energy Adviser, IMarEST Houston (US Gulf Coast) Branch*

Dr. Abili is an Internationally Experienced Chief Subsea Executive, Digital Technology Leader, and Management Advisor, accomplished in operating commercially within the Energy industry. He is a dynamic and proactive Energy Transition Adviser and Engineering Project Consultant, who excels at developing low carbon solutions to accelerate clean energy, with 22 years of expertise in delivering optimal outcomes across the energy value chain.

Dr. Abili is actively involved in decarbonization projects, new energies, offshore & Onshore renewable wind, CCUS, hydrogen, electrification, deepwater field developments, intelligent operations, cutting-edge green technology innovations, value engineering, techno-economic strategies, digital engineering, strategic business development, financial risk management, policy formulations, and management of multi-disciplinary teams in the offshore energy industry. Throughout his career, he has overseen the completion of multiple CAPEX projects valued at over \$12 billion in growth opportunities and cash flows.

He holds a PhD in Energy & Power (Offshore Engineering) and MSc in Subsea Engineering from Cranfield University, England; an MBA in Oil and Gas at Middlesex University London, England; and a BEng in Electronic & Electrical Engineering (Hons) at the University of Sunderland, England. He has professional working experience with Major IOCs, NOCs, including Shell and Eni International, Schlumberger, and top management consulting. Dr. Abili is Chartered Engineer (Ceng), Chartered Marine Engineer (CMarEng) and a Fellow of the Institute of Marine, Engineering, Science and Technology (IMarEST) in the UK.

Dr. Abili has published several international journals and made major international offshore conference presentations, including Offshore Technology Conference (OTC), International Petroleum Technology Conference (IPTC), Deep Offshore Technology (DOT) International Conference, Offshore West Africa (OWA) Conference and Subsea UK, as a Thought-Leader and Speaker, where he bagged 3 international industrial 'Best Awards', and has been a reviewer for top international journals, including Journal of Marine Engineering & Technology (JMET) of the IMarEST. Dr. Abili is the current Chairman of the IMarEST Houston (US Gulf Coast) Branch.

## **Rajnish Kelkar**

*Vice Chair, IMarEST Houston (US Gulf Coast) Branch*



Rajnish Kelkar is a Houston, TX based maritime executive. He has international experience in management, operations, assurance and safety roles in Oil, Gas, Energy and Maritime industries. He is currently the Global lead for Environmental, Energy and Regulatory Programs at Excelerate Energy, Texas, USA, where he is engaged in various new FSRU terminal development projects and in managing environmental, energy management & global maritime regulatory compliance programs and initiatives in the FSRU fleet and Regas Terminals. Prior to this he was the Marine Projects Manager for the Jordan Cove LNG Marine export terminal in Coos Bay Oregon.

After completing his Marine Engineering training, Rajnish served on large ocean-going tankers, initially with Chevron Shipping Corporation, USA before joining Vancouver based Teekay Shipping Ltd., where he rose to the rank of a Chief Engineer. In his career till 2009 with Teekay, he also served in various management roles ashore in Teekay's Vancouver (Canada) based headquarters in fleet performance and maintenance management, condition, risk and reliability improvement programs, maritime safety

and legislation, oil spill and emergency response and various other safety, quality and environmental programs for Teekay's oil, product, and LNGC fleets. From 2009 to 2016 Rajnish was the Director, Maritime and Global Shipping HSSE, Asset Integrity and Risk Management at BG Group in Houston, TX. In this role he was the Functional Head of Maritime, HSSE, and process safety disciplines.

Rajnish is a Chartered Engineer and holds a Class 1 Marine Engineering Officer international license equivalent to a BS degree in Marine Engineering. He is a Fellow of the Institute of Marine Engineering, Science and Technology (FIMarEST-UK) and the Vice Chair of its US Gulf Coast Branch. He is also a Fellow of the Institution of Engineers (FIE) and holds a bachelor's degree in economics and a master's in business administration (project management) from the Henley Business School, Oxfordshire, UK.





**Ram Shenoy**  
*CEO, RBR Group*

Ram Shenoy has 24 years experience in upstream oil & gas, holding a variety of roles around technology development, management and marketing.

He spent 20 years with Schlumberger, starting as a research scientist, and completed a series of assignments of increasing responsibility, culminating in his last position with Schlumberger as Vice-President of Research, managing Schlumberger global corporate research laboratories.

He subsequently became Chief Technology Officer of ConocoPhillips, a position he held for 4 years. He currently advises venture capital and private equity companies on matters of technology strategy and due diligence in the energy sector. He also serves on a number of advisory boards, most notably the US Secretary of Energy Advisory Board, and the Project Production Institute.



**Jennifer Trageser**  
*Vice President, Product Development, ABS Wavesight*

In her role, she leads the product management and user experience team. Jennifer's primary focus is on product strategy, roadmap development and maintenance, and intuitive user design, as well as ensuring the delivery of best-in-class products and services to the market.

Prior to joining ABS Wavesight, Jennifer has held product leadership positions in a variety of industries including digital health, supply chain risk management, and customer relations management. Jennifer graduated from Louisiana Tech University with a degree in Marketing, and she serves on La Tech's College of Business Marketing Advisory Board and volunteers in their mentor program.



## **Anthony Teo**

*Head of Americas – Vice President, Rightship*

Anthony brings more than 25 years of maritime experience in project management, business development, strategic innovation and alternative technology/ fuel.

He completed a Naval Architecture (Hons) degree at the University of Strathclyde (Glasgow) in 1998. Prior to joining Rightship in May 2021, he worked in DNV for 19 years and held several technical and management positions around the world. In his position at RightShip, Anthony oversees a strategic market approach that supports a long-term vision for improved safety and decarbonization in the maritime sector.



## **Thomas Johnson**

*Former Board Chairman, Houston Maritime Center*

I am both proud and fortunate to have participated in and enjoyed many aspects of the maritime industry in my 40+ years of continuous service. My initial general marine engineering education and early hands on sea going service enabled my participation in various sectors of the marine industry from vessel operations, ship building, ship repair, propulsion machinery and control systems engineering application and sales, vessel sales and chartering and regulatory compliance.

I am an articulate and presentable speaker with moderate experience in mid level engagements including over the years presentations to the Kings Point Association, the Marine Insurance Underwriters Association, NAMEPA, Marine Innovations Singapore and a few other organizations and events.

My unusually broad and diverse industry interface and experience was not a planned professional path but a result of good luck navigating the progressive shrinkage and consolidation of the domestic marine industries over my professional life. I am on a first name basis with many senior marine industry leaders inclusive of the legal, technical, regulatory and commercial community.

My unusual span of industry technical and commercial knowledge ranges from marine LNG, dredging, ice class technology and offshore wind energy sectors to MARAD (assets and projects), MARAD Title 11 protocols to diverse aspects of the JONES ACT.



## **Meg Dowling**

*ABS Corporate Technology Engineer, Nuclear Programs Lead, American Bureau of Shipping (ABS)*

Meg Dowling is an Engineer in the Machinery, Electrical and Systems Engineering Department of ABS Technology. Meg joined ABS in 2019 as an Aspire Rotational Engineer, where she gained company-wide experience with sustainability projects, transfer of class, risk-based inspection, alternative fuels, offshore structures engineering, and mooring arrangement review. She now leads the Nuclear Programs at ABS Corporate Technology, among other subjects related to sustainable shipping initiatives and alternative power options such as hydrogen, ammonia and biofuels. Meg received her BS in Ocean and Naval Architectural Engineering from the Memorial University of Newfoundland.



## **Peter Wallace PE, CEng, CMarEng**

*Principal Engineer, Lloyds Register*

Peter Wallace, PE, CEng, CMarEng is Principal Engineer in the Maritime Performance Services--Applied Technology Group of Lloyd's Register, based in Houston Texas. He is a practicing naval architect working in the technology development, risk, and regulatory spaces in maritime and offshore in such topics as decarbonization, dynamic positioning, and structural digital twins. Peter holds a BSc in naval architecture and marine engineering from Webb Institute of Naval Architecture and an MBA from Tulane University. Peter is a Member of Corporation at Woods Hole Oceanographic Institution and an Executive Committee member of the IMarEST Gulf Coast Branch.



## **Chase Dwyer**

*Co-Founder and CEO, Carbon Ridge, Inc*

Chase Dwyer is the Co-Founder and CEO of Carbon Ridge, Inc., a Los Angeles and Houston based developer of modular, second generation carbon capture and storage (CCS) solutions for the maritime and offshore industries. Prior to founding Carbon Ridge, Chase was an Associate at B2U Storage Solutions, a California-based battery storage and solar developer where he led the companies Series-A Funding efforts, as well as the development of their battery sourcing supply chain. Chase also worked as an Associate at Cohn Reznick in their Transaction Advisory and Project Finance practices, as well as an Analyst at private equity firms Graham Partners and Search Fund Accelerator. Chase is an avid and former collegiate skier and received his BA from Babson College where he studied entrepreneurship and environmental sustainability".



## **Peter Fitzpatrick**

*VP Shipping, NextDecade*

Peter has more than 30 years of experience as an LNG ship owner and charterer in the LNG shipping industry, having worked for Classification Societies and BG Group both as an owner and subsequently as a Charterer. He has been involved in industry activities from SIGTTO and Owners Groups where he helped update industry requirements and best practices.

Whilst Peter worked at BG Group (2004 to 2016) he led a team that helped transition and modernize the company's LNG fleet from steam propulsion to Dual Fuel diesel Electric (DFDE) and finally to the slow speed 174,000 m3 LNG size vessel we see today, which has become the industry standard. These changes were driven by an LNG trading model that transitioned from a point-to-point trading mindset to a more flexible global LNG portfolio approach. This approach looked at total costs, including emissions and fuel reductions.

In his current role at NextDecade, Peter is again looking to put in place structures and process to move the company's LNG shipping needs forward, all in the backdrop of an immense period of industry and global change, especially around environmental requirements.

# Speakers/Moderators/Panelists



## Nick White

*President/co-founder, ezNG Solutions*



**Nick White**, ezNG Solutions' President/co-founder, is a Naval Architect (UMich'75) with a Mechanical Engineering Masters (UH'83). Past regional chairman SNAME. Nick worked for major oil companies for over 20yrs as a project manager and deepwater technology leader. Since 2000, he has worked primarily on deepwater and natural gas industry projects and technology development. Chuck has led several large joint industry projects as well as the API global task forces in writing the FPS and riser design RPs. He co-chaired creation of the first probabilistic riser design code and helped ABS, DNV, and BV write codes for shipping pressurized gas cargos. He holds multiple US and international patents.

## Mejdi Kammoun

*Principal Engineer, American Bureau of Shipping (ABS)*



Mejdi is a Principal engineer joined ABS in August 2019 as a Senior Engineer in the Ship Equipment Department. He conducted design reviews of life-critical systems, including manned underwater vehicles, launch and recovery systems, lifting appliances, PVHOs, pressure vessels, general cargo containers, MEGCs, and portable tanks. With seven years of battery-related experience, Mejdi is trained in both experimental and computational research.

Mejdi received his bachelor's degree in Industrial Engineering from the National Engineers School in Tunis, a Master's degree in Engineering in Computational Mechanics from the Tunisia Polytechnic School, and a Doctorate in Mechanical Engineering from the University of Houston (TX, USA)

Mejdi is now joining Corporate Technology as a part of the Machinery, Electrical and Systems Engineering Group in Corporate Technology.

## Ramanan Krishnamoorti

*Vice President of energy and Innovation, University of Houston*



Ramanan Krishnamoorti is the vice president of energy and innovation at the University of Houston. He is also a Professor of Chemical Engineering at UH. He leads UH's pre-eminent energy focused research, technology advancement and multi-disciplinary education programs. Ramanan obtained his bachelor's degree from the Indian Institute of Technology Madras and doctoral degree in chemical engineering from Princeton University in 1994.

Find out more:

<https://www.chee.uh.edu/faculty/krishnamoorti>

<https://uh.edu/uh-energy-innovation/uh-energy/energy-research/faculty-research/faculty/krishnamoorti-ramanan>

## Thalía Krüger

*Senior Business Development Manager, Principle Power*



Thalía Krüger, SNAME Fellow, Naval Architect and Marine Engineer serves as Senior Business Development Manager at Principle Power ([www.principlepower.com](http://www.principlepower.com)) responsible for the Americas. Thalía earned her MSc degree in Naval Architecture and Marine Engineering at the Gdansk Technical University Shipbuilding Institute. She has a long Marine and Offshore sectors experience of more than 20 years, honing her technical skills and taking on strategic account management and business development responsibilities. She began her career as a programmer and designer, advancing to the positions of shipyard project engineer, marine inspections chief surveyor, technical superintendent, entrepreneur, principal engineer, project manager, global offshore account manager, and senior marine/offshore consultant.

Now, a committed participant in the energy transition, Thalía is focusing her energy and talent on offshore wind energy as part of a group of creative problem-solvers dedicated to providing the most competitive, safe, reliable, and environmentally friendly offshore floating wind solution.

She is an engaging mentor with a passion for the promotion of education specially empowering women in STEM careers, particularly in the Naval Architecture and Marine Engineering fields.



## **Juha Laukka**

*Product Director, Rotoboost*

Juha Laukka is Product Director of Rotoboost. Rotoboost is hydrogen technology company focusing on industrial decarbonization through converting hydrocarbon gas (such as natural gas or bio methane) into low-carbon (turquoise) hydrogen and valuable solid carbon.

Juha Laukka joined Rotoboost in 2020 to guide the research activities in developing the core technology and today he is focusing on the numerous customer applications where decarbonization can be achieved profitably with solutions that utilize the unique Rotoboost technology.

Previously Juha Laukka served Valmet where he led the development of marine emission control business from scratch into a new branch with \$150m annual turnover. He has also served companies like Metso and Kvaerner, where he has always been involved in designing and building something new for the very first time on industrial scale. Juha Laukka has M.Sc. degree from Helsinki University of Technology and he has received several awards for innovation.

## **Shilpa Mesineni**

*Senior Engineer II, Technology, American Bureau of Shipping (ABS)*

Shilpa is an Electrical Engineer with over 10 years of experience. She has worked in Automotive, Drilling, Marine and Offshore Industries.

She currently serves as a Senior Engineer in ABS Corporate Technology Global Simulation team and is responsible for leading efforts in System Simulation, digitalization and decarbonization initiatives in the maritime industry.

Prior to this role, she worked as a senior Electrical and control systems engineer for drilling systems at Nabors industries. During her tenure at Nabors, Shilpa's contributions were integral in optimizing and testing drilling operations for efficiency and safety.

She holds a Bachelor of Science in Electrical Engineering from Jawaharlal Nehru Technological University in India and a Masters degree from University of New Orleans, Louisiana, US.

## **Subrat Nanda**

*Chief Data Scientist, American Bureau of Shipping (ABS)*

SUBRAT NANDA is the Chief Data Scientist at the American Bureau of Shipping in Houston and leads data science and advanced analytics efforts. Subrat has 19+ years of experience in applying Artificial intelligence to industrial problems in the broad areas of asset condition-based maintenance (CBM), prognostics & health management (PHM), reliability engineering, statistical risk assessment and service performance enhancement. He has successfully developed and deployed over 100 applications using machine learning, artificial intelligence & data science technologies in diverse domains such as marine, offshore drilling, gas turbines, wind turbines, financial risk, inspection and marketing. Subrat believes that fusing domain knowledge, data and data science are the key elements for impactful and scalable industrial analytics. Subrat holds a Master's degree from the University of Exeter, England in Autonomous Systems and a Bachelor's degree in Engineering from University of Nagpur, India. He has filed 15 US patents, holds 6 trade secrets and has authored more than 40 publications and/or conference publications in the area of asset health management and risk assessment.

## **Guillaume Vileyn**

*Senior Electricity and Fire Safety Surveyor, Bureau Veritas Marine & Offshore*

Guillaume Vileyn has been with Bureau Veritas Marine & Offshore since 2006. He is the Senior Electricity and Fire Safety Surveyor at the BV Houston Plan Approval Office. Guillaume is responsible for design reviews related to implementing battery systems onboard new-built and existing ships, whether on the electrical and automation aspects or the fire and safety aspects. Guillaume is also responsible for design reviews related to the Type Approval Certification of battery systems manufactured in North America. Guillaume holds a bachelor's degree from the French School of Electrical Engineers (ESIGELEC).



## Peter Noble

*President & Senior Advisor, Noble Associates Inc.*

Peter Noble is naval architect, marine and ocean engineer with a wide range of experience across many sectors within the marine and offshore industries.

His career has included positions with shipyards; with ship and offshore design consultants; with offshore and marine research and development companies; with major classification societies; and with an international oil company. Peter is a past Vice President of IMarEST and past president of SNAME.

His current work includes advising on ocean renewable energy projects and on the use of future fuels and energy sources in the marine environment, as well as acting as an expert witness - subject matter expert. Peter continues to support student and young professional activities in naval architecture and ocean engineering through mentoring and advising on capstone projects. He serves on a number of industry advisory groups and committees.



## Joseph Rousseau

*Director – Offshore Technology, American Bureau of Shipping (ABS)*

Joseph (Joe) Rousseau is Director – Offshore Technology at ABS, where he directs Research and Development activities for offshore technologies in areas such as alternative energy, carbon capture, oil and gas, and subsea mining.

Rousseau has held various leadership roles with ABS in Houston, Singapore, London, and Ottawa. He started his ABS career in the Houston office, working in the Offshore Engineering department after joining the organization in 1998. Prior to joining ABS, he was a Naval Architect at several ship design companies in Canada.

Rousseau holds a Bachelor of Engineering degree in Naval Architecture from Memorial University of Newfoundland in St. John's, Canada, and a Master of Business Administration from Tulane University in New Orleans, Louisiana. He is a member of the Society of Naval Architects and Marine Engineers (SNAME) and a Fellow of Engineers Canada.



## Altaf Shaik

*Principle Engineer, American Bureau of Shipping (ABS)*

Altaf is a Marine Engineer with over 15 years of experience. He currently serves as a Principal Engineer in ABS Corporate Technology Department and is responsible for developing requirements for emerging technologies in the maritime industry that includes Onboard Carbon Capture, Kinetic Energy Storage Systems, Liquefied Carbon Dioxide Carriers.

Prior to this role, he was in ABS Engineering department conducting plan reviews for different types of vessels such as LNG carriers, Offshore supply vessels, Yachts, High Speed Crafts and Barges. During this time, he became an SME for Ballast Water Treatment Systems. As part of the USCG Type Approval of BWTS, he worked closely with the Independent laboratories and helped clients get the USCG Type Approval for their systems.

He holds a Bachelor of Science in Marine Engineering from Andhra University in India and an MBA degree from Bowling Green State University, Ohio, US. Prior to joining ABS, he spent few years sailing on Tankers.



## Shankar Vaidhyanathan

*Senior Engineer, Global Sustainability Center – Houston*

Shankar Vaidhyanathan is a senior engineer at Global Sustainability Center – Houston.

He is a Senior Sustainability Professional with more than 12 years of experience running Global Scale Carbon accounting projects for shipping and onshore/offshore oil and gas companies. He was also the lead author on two ABS publications on “Green Shipping Corridors” and is considered an expert in this subject.

Shankar holds a bachelor's (National Institute of Technology, Durgapur, India) and master's (University of Texas at Arlington) degree in civil engineering (Specialty: Environmental Engineering), and recently completed additional graduate-level course work at Colorado School of Mines with a Focus on Climate Change and Sustainability, Political Economy of Energy Transition and Carbon Capture, Utilization and Storage.





## **Joshua Padeti**

*Senior Engineer at American Bureau of Shipping's Global Sustainability Center in Houston.*  
He has been with the firm since 2014 and his expertise encompasses a wide variety of topics including sustainability, alternative fuels, emissions, environmental compliance, ship machinery, marine piping, statutory compliance, engineering design compliance and rule development. He is an expert in emerging marine fuels and he has authored the American Bureau of Shipping's requirements for ammonia, methanol and ethanol fueled vessels. He has published various thought leadership articles on alternate fuels and technologies including LNG, methanol, ammonia and carbon capture. He is the International Association of Classification Societies representative to International Maritime Organization Correspondence Group on Marine Fuel Lifecycle Greenhouse Gas Assessment.

He has a Master of Science degree in Mechanical Engineering from the University of Michigan, Ann Arbor and a Bachelor's degree in Mechanical Engineering from Osmania University, India.



## **Greg Trostel**

*Global Industry Development Manager, Rockwell Automation*

Greg has over thirty years of experience in the energy industries and is currently a global industry development manager for Rockwell Automation, leading the Floating Production Initiative for both Rockwell and Sensia.

Greg started his career as a coop student with MW Kellogg based in Houston, and spent a combined 13 years with Kellogg/KBR in several engineering disciplines before moving into international sales. His time there was marked by several international assignments with a focus on joint venture partner development. Greg also spent significant time in technology & software development within the industry, which include sales development work at Aspen, AVEVA, Meridium and PAS.

Before joining Rockwell, Greg was involved in global project pursuit and strategic account management with Puffer/Emerson, including an international assignment covering the Middle East / Africa world area. Greg has a Chemical Engineering degree from Texas A&M University and an MBA from the University of Houston.



## **Sharat Valluri**

*Director, Technology - Data and Digital Applications, American Bureau of Shipping (ABS)*

Sharat Valluri has worked in the maritime and offshore industries for 25 years in various roles, including ship operation and maintenance, structural design, strategic business planning, digital technology qualification, and digital processes, tools & product development.

He has worked in the Ship Engineering, International Government and Strategic Business Planning departments at the American Bureau of Shipping's world headquarters in Houston. He is currently the Director of Technology – Data and Digital Applications group. Here, he leads maritime digital transformation by developing and qualifying cutting-edge technologies such as structural and machinery Digital Twins, human-in-the-loop Smart functions, Structural Health Monitoring, Asset Integrity Management, Predictive Analytics, and condition-based programs. Sharat is an ex-chief engineer with 10 years of international sea-going experience on board oil tankers and product carriers prior to joining ABS. Sharat Valluri holds an MS in Ocean Engineering from the University of California, Berkeley and an MBA from the Wharton School of the University of Pennsylvania.



## **Rosevelt Fernandes**

*Director- Regional Business Development, American Bureau of Shipping (ABS)*

Experienced Superintendent with a demonstrated history of working in the maritime industry. Skilled in International Shipping, Safety Management Systems, ISM Code, Maritime Operations, and Inspection. Strong operations professional with a Post Graduate Diploma in Executive Maritime Management, focused in Business Administration and Management, General from World Maritime University.



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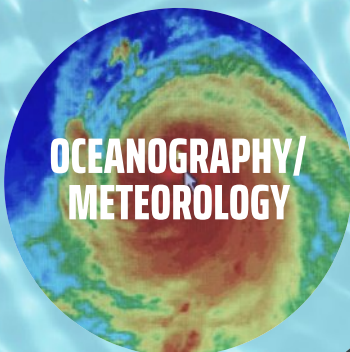
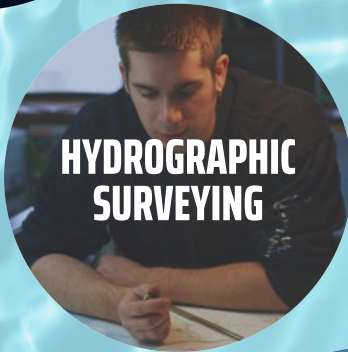
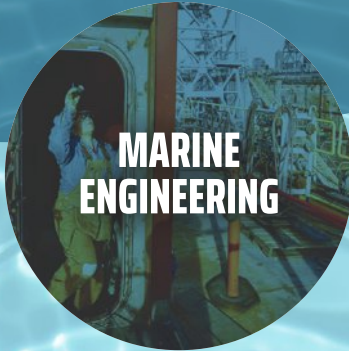
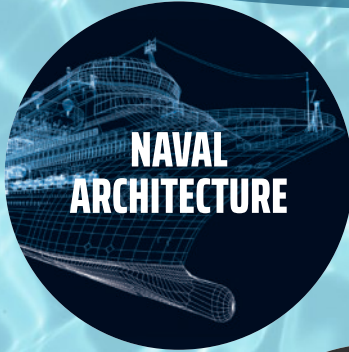


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