



SOME

September 2026



Tuesday, September 15, 2026 – Symposium Day #1 Eugenides Foundation Conference Center, Athens

FINAL PROGRAMME

08:00 – 08:30 REGISTRATION

08:30 – 09:00 Welcome and Opening Addresses

Welcome Addresses

John E. Kokarakis, SNAME Greek Section Chair

Elizabeth Bouchard, SNAME Executive Director

Leonidas Dimitriadis-Eugenides, President Eugenides Foundation, Honorary Chairman of SOME

Apostolos Papanikolaou, SOME 2026 Chair

Opening Address

Ioannis Chatjigeorgiou, Rector National Technical University of Athens

09:00 – 09:30 Keynote Speech I

Harilaos Psaraftis (DTU)

The road to Net Zero: In search of the elusive convergence

09:30 – 10:30 Panel Discussion

Carbon capture technologies

Coordinator: Lambros Nikolopoulos (GASLOG)

Panelists: Chara Georgopoulou (DNV), Giorgos Skevis (CLEOS), Stavros Niotis (PRIME Marine),
Yiannis Christopoulos (Wartsila)

10:30 – 10:50 Coffee Break

10:50 – 13:00 Session No.1: Decarbonization, Alternative Fuels (Chair: Panos Zachariadis)

10:50 – 11:50 Technical comparison of emissions and assessment of use of alternative fuels on large containerships

Dale Pederson (Herbert Engineering), Dimitris Konovessis (National Technical University of Athens)

Ongoing rule and regulatory developments for the safe use of ammonia as a marine fuel

Vassilis Zouzoulas, Spyros Hirdaris (American Bureau of Shipping)

A critical assessment of alternative fuels for shipping

Panos Zachariadis (Atlantic Bulk Carriers Management)

11:50 – 12:00 10-min Break

12:00 – 13:00 **Robust and simulation driven design optimization for dual LNG–Hydrogen powered large bulk carriers**

Lampros Nikolopoulos (University of Strathclyde), Antonios Trakakis (Registro Italiano Navale), Evangelos Boulougouris (University of Strathclyde)

Model-based assessment of various decarbonization pathways considering multiple SAFs, powertrain and vessel type configurations

Georgios N. Rossopoulos, Vasileios Karystinos, Leonidas N. Tsaganos, Georgios Charvalos, Georgios Dimopoulos, Christos I. Papadopoulos (National Technical University of Athens)

Perspectives on marine nuclear energy systems: Thermodynamics, economics and system integration

George Dimopoulos and Anastasia Vlachou (National Technical University of Athens)

13:00 – 13:45 Lunch Break

13:45 – 16:00 **Session No.2: Decarbonization Measures and WAPS (Chair: Kostas Belibassakis)**

13:45 – 14:45 **Design challenges and solutions for purpose-built wind-assisted vessels**

Smit P. Dhanani, Roy de Winter, Austin A. Kana (Delft University of Technology)

Uncertainty analysis of simulation-based performance evaluation for wind-assisted propulsion systems

Foivos Lemonakis, Stavros Kontos, Sofia Werner (RISE)

Assessing the potential of wind-assisted propulsion for the decarbonization of deep-sea shipping

Timoleon Plessas, Apostolos Papanikolaou, Aimilia Alissafaki (National Technical University of Athens)

14:45 – 14:50 5-min Break

14:50 – 15:50 **Design and assessment of a cryogenic desublimation carbon capture system onboard ships** Dimitrios E. Sykas, Ahmed G. Elkafas, Iraklis Lazakis (University of Strathclyde)

Hydrodynamics and multi-physics simulations supporting development of digital twin in shipping: The case of a futuristic RoRo vessel

Kostas Belibassakis (National Technical University of Athens), Brian Bender Madsen (Knud E. Hansen A/S), Anders Oster (Wartsila Finland), Lokukaluge Prasad Perera (The Arctic University of Norway, SINTEF Digital)

A model for identifying the impact of lateral excitations of ships with WAPs in realistic operating conditions

Manolis Angelou, George Papadakis, Dimosthenis Triperinas, Kostas Belibassakis (National Technical University of Athens)

15:50 – 16:10 Coffee Break

16:10 – 19:00 Session No.3: Decarbonization Measures - Regulatory Impact (Chair: Constantine P. Manoudakis)

16:10 – 17:30 Eligible removal units from direct air capture of CO₂ as an optional compliance pathway in the IMO Net-Zero framework

Georgios Remoundos (University of the Aegean), Sofia Peppas (University of West Attica), Stylianos Perissakis (University of Piraeus), Nikolaos Papanikos (National and Kapodistrian University of Athens), Georgios Charvalos and Christos I. Papadopoulos (National Technical University of Athens)

Evaluating the impact of hydrodynamic upgrades on vessel efficiency, regulatory compliance, and operational costs

Constantine P. Manoudakis (Devore Marine Inc.), Simone Mancini (FORCE Technology), Huang Guofu (China Ship Scientific Research Center)

QFD-based framework for multi-criteria evaluation of maritime energy efficiency technologies

Thomas Papacharizanos, George Kontaras and Chara Georgopoulou (DNV Hellas), George Dimopoulos, Dimitrios Lyridis and George Charvalos (National Technical University of Athens), Angelos Filippatos and Elias Bilalis (University of Patras), Igor Bačkalov (DST e. V.), Nikoletta Trivyza (RINA), Ioannis Gergis and Spyros Pappas (Hydrus Engineering Ltd)

Special considerations following ship electrification – The Aegis project

Dora Tsiourva and John Prousalidis (National Technical University of Athens)

17:30 – 17:40 5-min Break

17:40 – 19:00 Decomposing maritime environmental regulations: A lifecycle approach to milestone mapping and regulatory effectiveness

Eirini Stamatopoulou and Nikolaos P. Ventikos (National Technical University of Athens)

Operational and decarbonisation-oriented structural design of modular cargo vessels

Alexander Egorov and Bohdan Urum (Marine Engineering Bureau)

The end of shipping decarbonization as we know it: Rethinking the IMO Net-Zero framework's economic architecture

Paraschos Liadis and Stela Spiraj (QueSeas)

D-NAVIO: Supporting stakeholder-driven architecture for cybersecurity and ship systems resilience during maritime operations

Stamatina Rassia, Timoleon Plessas, Thodoris Tsikis (Le.D.R.A. Group)

19:00 – 19:10 Day 1 Closing Remarks

Apostolos Papanikolaou, SOME 2026 Chair

John E. Kokarakis, SNAME Greek Section Chair

End of day 1

Wednesday, September 16, 2026 – Symposium Day #2

Eugenides Foundation Conference Center, Athens

FINAL PROGRAMME

08:00 – 10:30 Plenary Session

08:00 – 08:05 Welcome (Day 2) – John E. Kokarakis, SNAME Greek Section Chair

08:05 – 08:30 Keynote Speech II

John Prousalidis (National Technical University of Athens)

The sustainable decarbonization of maritime sector as part of a Holistic Electrification Plan

08:30 – 09:30 Panel Discussion

Nuclear in Maritime

Moderator: Harilaos Petrakakos (PNP Marine Consultants)

Panelists: Lia Athanassiou (Athens School of Law), Panos Zachariadis (Atlantic Bulk Carriers Management), Minas Diacakis (American Bureau of Shipping), Kostantinos Economou (CREDIABANK), Oded Gaur Lavie (nT-Tao), Giulio Gennaro (newcleo), Stavros Meintanis (Capital), George Dimopoulos (National Technical University of Athens)

09:30 – 10:30 Session No.4: Autonomous Shipping (Chair: Nikolaos P. Ventikos)

Port call optimisation in Piraeus: Integration assessment and expected benefits

Manolis Annetis, Christoforos Diamantis, Dimitris Roniotis, Thanasis Chaldeakis, Charalampos Papargyris, Sofia Koufou, Violeta Ampela, Nikolaos P. Ventikos (National Technical University of Athens, Piraeus Port Authority)

The SEAMLESS approach to enabling fully automated waterborne freight feeder loop services

Vassilis Podimatas, Alexandros Koimtzoglou, Konstantinos Louzis, Angeliki Stouraiti, Dimitrios Konovessis, Nikolaos P. Ventikos, Håvard Nordahl (National Technical University of Athens, SINTEF Ocean)

Autonomous tugboats in port operations: A digital twin architecture for berthing and unberthing

Alexandros Koimtzoglou, Anastasia Roukouni, Giannis Kanellopoulos, Konstantinos Louzis, Lianna Serafeim, Angelos Amditis, Nikolaos P. Ventikos (National Technical University of Athens, Institute of Communication and Computer Systems)

10:30 – 10:50 Coffee Break

10:50 – 13:00 Session No.5: AI Maritime Applications (Chair: Michael Fan)

10:50 – 11:50 Fuel oil consumption prediction model for AI optimisation platform

Andreas Kouvaras, Dimitris Stavropoulos, Aikaterini Karampasi and Constantine Abazis (VesselFront), Michael Fan (Tsakos Energy Navigation Ltd.), George Margelis (Tsakos Shipping and Trading S.A.)

VesselAI: AI-powered maritime analytics and decision support toward low-emission ship operations

Afroditi Blika (Institute of Communication and Computer Systems), Theodoros P. Gerostathis (University of West Attica), Georgios Grigorios Klavdianos, Theodoros Florakis, Anastasia Askouni, Loukas Ilias, Ariadni Michalitsi-Psarrou, Giannis Xidias and Spiros Mouzakis (Institute of Communication and Computer Systems), Kostas Belibassakis (National Technical University of Athens), Lokukaluge Prasad Perera (The Arctic University of Norway)

A responsible-AI green digital twin framework for lifecycle decarbonization in shipping

Christos Spandonidis, Areti Petsa, Chrysa Rompidou (Prisma Electronics SA)

11:50 – 12:00 10-min Break

12:00 – 13:00 Intrinsically safe drones for remote inspections in confined spaces and tanks

John E. Kokarakis and Constantinos Pallis (Bureau Veritas)

The evolution of maritime inspections with unmanned aerial vehicles

Georgios Koutsoumpas, Chris Leontopoulos, Orestis Vlachos, Costas Xidis (American Bureau of Shipping)

AI-assisted crash astern maneuvers: Reducing trajectory uncertainty in emergency ship stopping

John E. Kokarakis and George Andreadis (Bureau Veritas)

13:00 – 13:45 Lunch Break

13:45 – 16:10 Session No.6: Fuel Consumption Optimisation (Chair: Dimitris Kaklis)

13:45 – 14:45 Influence of hull structural material on economics and decarbonization

John C. Daidola (AENY Naval Architects and Marine Engineers)

Energy boom or budget bust? A data-driven systems elements analysis workflow for tanker retrofit decision-making

Zacharias P. Oikonomou, Ioannis Papachlimintzos, Spyridon Moraitis, Jeroen Pruyn, Austin Kana (Delft University of Technology, Rotterdam University of Applied Science, Olympic Shipping & Management, S.A.)

From Onboard Sensor Data to Optimal Routes: Physics-Informed Machine Learning for Ship Fuel Consumption

Dimitrios Kaklis and Takis J. Varelas (DANAOS Research Centre)

14:45 – 14:50 5-min Break

14:50 – 16:10 Energy efficiency assessment of shaft generators on LNG carriers and VLCC tankers

Nikolaos Aletras and George Skevis (CLEOS)

Spray angle analysis of marine diesel and plastic pyrolysis oil fuel blends

Marios Mountzalias, Marios Patsiadis, George Veropoulos, Stamatios Kalligeros (University of West Attica, Hellenic Naval Academy)

A techno-economic tool for ship energy saving technologies assessment

Eleni Eleftheriadou, Georgios Charvalos, Ioannis Pervelis, Christos Papadopoulos (National Technical University of Athens)

Validation of the improved SNNM method for the added resistance of a ship advancing in waves

Shukui Liu (Nanyang Technological University) and Apostolos Papanikolaou (National Technical University of Athens)

16:10 – 16:30 Coffee Break

16:30 – 19:00 Session No.7: Ship Design and Operation - Holistic Approaches to the Shipbuilding Industry (Chair: Dimitris Konovessis)

16:30 – 17:50 Probabilistic network constrained layout generation for early-stage inland ship design

Richmond S. Anku, Jeroen Pruyn, Cornel Thill (Delft University of Technology and Rotterdam University of Applied Science)

Towards ship-hull structural digital twins for safe operations: A lab-scale experimental case study

Evangelia Eleni Sapountzaki, Nicholas Silionis, Konstantinos Anyfantis (National Technical University of Athens)

Design and application of a Charterers' Satisfaction Index (CSI): Modelling of fuel oil consumption onboard an LNG carrier

Marios I. Gaitanos, Iraklis Lazakis, Robert VD. Meer, Yaseen A. Ahmed (University of Strathclyde, Universiti Kuala Lumpur)

Statistical analysis of technical characteristics of contemporary bulk carriers

George Dafermos, Aphrodite Kanellopoulou, Aimilia Alissafaki, George Zaraphonitis (National Technical University of Athens)

17:50 – 18:00 10-min Break

18:00 – 19:00 Holistic framework for the environmental assessment of shipbuilding processes according to GHG protocol standards

Jason Markatos, Dimitris Polyzogopoulos, Marc Bonazountas (Epsilon International Ltd, National Technical University of Athens)

Competency-based seafarer training as a driver of reliability and safety for gas carriers

Adolf Jacob Vegter and Speros Stamatis (Edugas)

Seafarers' soft skills: Measurement and impact on performance

Petros Dimas, Georgia Tzourmana, Pelia Giannoulatou, Odysseas Tsouvalis, Dimitrios V. Lyridis (National Technical University of Athens)

19:00 – 19:10 Day 2 Closing Remarks

Apostolos Papanikolaou, SOME 2026 Chair

John E. Kokarakis, SNAME Greek Section Chair

End of day 2

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Tuesday 15th September 2026

09:00 – 09:30 Keynote Speech I

Harilaos Psaraftis (DTU)

The road to Net Zero: In search of the elusive convergence

Harilaos N. Psaraftis is Professor Emeritus at the Technical University of Denmark (DTU), Department of Technology, Management and Economics. He has a diploma from the National Technical University of Athens (NTUA) (1974), and two M.Sc. degrees (1977) and a Ph.D. (1979) from MIT. He has been Assistant and Associate Professor at MIT from 1979 to 1989, a Professor at NTUA from 1989 to 2013, and a Professor at DTU from 2013 to 2023. He has been the PI or co-PI in 55 funded projects (25 from the EU) and has coordinated 3 EU projects. He has been a member and chairman of various groups at the International Maritime Organization (IMO), and has also served as CEO of the Piraeus Port Authority (1996 -2002). He has published extensively and has received several academic and industry awards.

Wednesday 16th September 2026

08:05 – 08:30 Keynote Speech II

John Prousalidis (National Technical University of Athens)

The sustainable decarbonization of maritime sector as part of a Holistic Electrification Plan

John Prousalidis was born in Athens (Greece) in 1968. He received his MSc (1991) and PhD (1997) degrees from the School of Electrical and Computer Engineering of the National Technical University of Athens (NTUA). In 2001 he joined the Academic Staff of the School of Naval Architecture and Marine Engineering of NTUA in the scientific field of “Marine Electrical and Electronic Engineering”, (currently Full Professor).





The Organizing Committee SOME 2026 - SNAME Greek Section

Professor Apostolos Papanikolaou
Symposium Chair

Prof. Dr. -Ing. Habil. Apostolos D. Papanikolaou is em. Professor of the National Technical University of Athens. He studied Naval Architecture and Marine Engineering at the Technical University of Berlin. He headed more than 80 funded research projects and was author/co-author of over 700 scientific publications dealing with the design and optimization of conventional and unconventional vessels, the hydrodynamics analysis of ships in calm water and in seaways, the logistics-based ship design, the stability and safety of ships and regulatory developments regarding maritime safety at IMO. He received various international prize awards for his research work, among them the RINA Safer Ship award in 1999, the Lloyds List 2009 Greek Shipping award on Technical Innovation, the prestigious Dr. K. Davidson medal/award of SNAME for outstanding achievement in ship research in 2010 and was recipient twice of the European Champions Award for Senior Researchers in Waterborne Transport in 2014 (Paris) and 2024 (Dublin). He is Fellow and former Int. Vice-President of SNAME (USA), Fellow of RINA (UK), STG (Germany) and Distinguished Foreign Fellow of JASNAOE (Japan).

Dr. John Kokarakis
SNAME Greek Section Chair

Dr Kokarakis a 1979 graduate of National Technical University of Athens, holds PhD (1986) and master's degrees in Naval Architecture (1983) and Mechanical Engineering (1984) from the University of Michigan. He worked for over ten years as a consultant undertaking technical problems worldwide. His specialization was in the area of technical investigation of marine accidents. In his capacity as a forensic engineer he participated in the technical investigation of the Exxon Valdez grounding, the Space Shuttle Challenger disaster, the drillship Sea-Crest capsized, the Piper Alpha fire and explosion, the Aleutian Enterprise foundering in Alaska as well as many other accidents of less notoriety. The last twenty-five years he works in Greece, in classification responsible for the smooth technical operation of ships and their safety. He specializes in decarbonization of shipping and innovative technologies enhancing energy efficiency. He is a honorary member of the Society of Naval Architects & Marine Engineers (SNAME) since 1976 and a Fellow of the Society. He served in various capacities, being currently the Chairman of the Greek Section since 2014.

Professor Dimitrios Konovessis
Papers Committee Chair

Dimitris Konovessis is Associate Professor at the School of Naval Architecture and Marine Engineering of the National Technical University of Athens, currently also serving as the Director of Ship Design Laboratory. Research in the areas of ship design and design methods for ship safety, first-principles and performance-based approaches for risk-based ship design, operation and regulation, maritime energy efficiency and environmental protection.

Dr. Lampros Nikolopoulos
Papers Committee Co-chair

Lampros under the capacity of Asset Integrity Manager in GasLog is responsible for developing, planning and delivering Lifecycle Maintenance Strategies for all equipment of a managed fleet of 38 LNG carriers and 1 FSRU. All aspects of Lifecycle Maintenance, Dry Dockings, Engine Maintenance, Technical Compliance and Electrical & Automation Management are supported by the Asset Integrity team which is comprised by talented individuals of multiple disciplines (Naval Architects, Chief Engineers, Electrical Engineers etc.). Before joining GasLog as it's Dry Dock Manager, Lampros has been responsible for all aspects of Dry Docking, repairs supervision, retrofit, energy efficiency and decarbonization projects for a fleet of 75 crude oil tankers in Euronav Ship Management (Hellas) and as a Newbuilding Supervisor in Starbulk SA participating in a rigorous Newbuilding program of bulkers and containerhips in Japan and China. Lampros is a Naval Architect and Marine Engineer having studied in the National Technical University of Athens and done post-graduate research in the University of Strathclyde in Glasgow with his PhD thesis being on the development of a novel methodology for Robust, Holistic, Simulation-based Ship Design Optimization. His research interests include voyage simulation in preliminary ship design, added resistance in waves, surrogate models for calm water resistance prediction and ship design optimization under uncertainty. Lampros is a member of the Greek Section of SNAME, a member of RINA and a member of the Greek national section of CIMAC.

Mr. Dionysios Malapets
Fundraising & Promotion Chair

Dionysis Malapetsas holds an MEng in Naval Architecture & Marine Engineering from the University of Strathclyde & Glasgow. He began his career as a Newbuilding Supervisor in China, overseeing construction of Capesize bulk carriers, then sailed aboard a newly delivered vessel to gain seagoing experience. Since 2012, he has been with Oceandynamic Marine Engineering & Trading, a boutique marine engineering and trading house representing foreign Principals to Greek Shipowners, Operators, and Shipyards. Now serving as Director, he leads business development, contract negotiation, and project management across newbuildings, repairs, and retrofits, with the aim of improving vessel energy efficiency and reducing operating costs.

Dr. George Rossopoulos
Media Support

Dr. Rossopoulos is a Doctor of Naval Architecture and Marine Engineering from the School of Naval Architecture and Marine Engineering of the NTUA, as of 2025, having received his diploma from the same school in 2018. In his doctoral dissertation, he utilized optimization and ML algorithms for the design and performance evaluation of ship shafting systems. He has worked since 2018 on eight (8) domestic and international research projects and he has received scholarships from the ELKE NTUA, the Leventis Foundation, and the Greek section of SNAME

Mrs. Sofia Iliogrammenou

Membership Director and European Office Director | SNAME