

**PROGRAMME**  
**ANNUAL MEETING OF MARINE TECHNOLOGY 2023**  
**14 & 15 NOVEMBER, EUGENIDES FOUNDATION**

Tuesday, 14 November 2023	
08:30 -09:00	<b>Registration</b>
09:00 -10:00	<p style="text-align: center;"><b>Welcome</b></p> <p>Chair: S. Zolotas, <i>Vice President of Hellenic Institute of Marine Technology, RINA Hellas Ltd. (tbc)</i></p> <p><b>Dr. N. Liapis</b>, <i>President of the Hellenic Institute of Marine Technology</i></p> <p style="text-align: center;"><b>Opening Addresses</b></p> <p><b>Ch. Stilianidis</b>, <i>Minister of Maritime Affairs and Insular Policy</i>  <b>G. Pateras</b>, <i>President of Hellenic Chamber of Shipping</i>  <b>Ch. Simantonis</b>, <i>President of Hellenic Shortsea Ship-owners Association</i>  <b>V. Korkidis</b>, <i>President of Piraeus Chamber of Commerce and Industry</i></p>
10:00-10:30	<p style="text-align: center;"><b>Session 1</b></p> <p style="text-align: center;"><b>Technical presentation</b></p> <p>Moderator: S. Zolotas, <i>Vice President of Hellenic Institute of Marine Technology, RINA Hellas Ltd. (tbc)</i></p> <p>G.Katsanis, <i>Inmartek Ltd</i></p> <p><b>New Solutions for Fast Tracked REGAS Terminals</b>  <b>EDIT Automation</b>  L.Chiodetto, <i>MIB Italiana S.p.A</i></p> <p style="text-align: center;"><b>Invited speech</b></p> <p><b>Are Biofuels actually more expensive than fossil fuels? A genius combination of technical and financial approach</b>  Th. Chouliaras, <i>Institute of Maritime &amp; Economic Strategy</i></p>
10:30 -11:00	Coffee break
11:00 -12:30	<p style="text-align: center;"><b>Session 2</b></p> <p style="text-align: center;"><b>Technical presentations</b></p> <p>Moderator: G. Cottrell, <i>Euromarine Ltd</i></p> <p><b>Marine Compression Solutions, Sailing to a Carbon-Neutral Future</b>  Gianluigi De Mitri, <i>SIAD Macchine Impianti S.p.A.- Inmartek Ltd.</i></p> <p><b>The 3 pillars of innovation in the Marine Industry" by EDIT Automation</b>  <b>#1 Safety for People,#2 Protection of the Environment ,#3 Sustainability for Corporations</b>  M. Sigalas, <i>E.D.I.T Automation</i></p> <p><b>Assessment of Energy Efficiency Technologies in Commercial Maritime Vessels Using Computational Fluid Dynamics (CFD)</b>  D. Labropoulos, <i>FEAC Engineering</i></p>

	<p><b>AI Psychometrics Screening Solution</b> A. Kaloulis, <i>Innovative Maritime Emotional Intelligence Center – I.M.E.Q</i></p> <p><b>Safer Ropes for Mooring Operations</b> A. Zygouris, <i>Katradis Marine Ropes S.A</i></p> <p><b>Tackling environmental regulations using digital tools</b> D. Zisimipoulos, <i>RINA</i></p> <p><b>Containerships: 10 Cases that Upgrading the Twistlock Securing System to HD-FAT is a Good Investment</b> G. Karavolos, <i>Seamark Marine Inc.</i></p> <p><b>Coriolis Mass Flowmeters, Torque Meter and onboard fast Data Acquisition</b> A. Angelidis, <i>Technava S.A.</i></p>
12:30-13:30	<p style="text-align: center;"><b>Session 3 Panel Discussions</b></p> <p>Moderator: A.Vamvakaris, <i>Vamvaship Maritime S.A.</i></p> <p><b>Sustainable solutions &amp; energy saving technologies in shipping</b> B.V.Puijenbroek, <i>ALPHA LAVAL (tbc)</i> D.Theodosiou, <i>DANAOS Management Consultants S.A.</i> V. Tsartsitalidis, <i>ERMA FIRST</i> A.Symeonidis, <i>METIS Cyberspace Technology S.A.</i> A.Athanassopoulos, <i>UTEKO</i></p> <p><b>Novel technologies for the construction, conversion &amp; survey of ships</b> M.Diacakis, <i>ABS</i> C.Georgousopoulos, <i>Ariston Navigation Corp.</i> L.Koukoulopoulos, <i>DNV (tbc)</i></p>
13:30 -14:30	Lunch break
14:30 - 15:00	<p style="text-align: center;"><b>Session 4</b></p> <p><b>Moderator:</b> Dr. N. Liapis, <i>President of HIMT</i></p> <p><b>Start-ups, Industry and Academia: a dialogue for the future of marine technology</b> A. Pantouvakis, <i>School of Maritime and Industrial Studies, University of Piraeus</i> Th. Vlachopanagiotis, <i>Rhoé</i> M. Striligás, <i>Vertliner</i></p>
15:00 -17:30	<p style="text-align: center;">Round Table Discussion</p> <p style="text-align: center;"><b>GHG Regulations in Shipping: Challenges and Pathways of Compliance</b> Moderator: S. Hatzigrigoris, <i>Advanced engineering services</i></p> <p>I. Kokarakis, <i>Chairman of SNAME, Bureau Veritas</i> P.Kourkountis, <i>Chairman of MARTECMA, Sea Traders S.A.</i> M. Vergetis, <i>INTERCARGO</i> <i>DNV, (tba)</i></p>

Wednesday, 15 November 2023

**Session 1**

Moderator: S. Kalligeros, *Hellenic Naval Academy*

**Digitalization tools for cargo heating operations for improved transport efficiency and reliability**

C. Georgopoulou<sup>1</sup>, N. Adamopoulos<sup>2</sup>, G. Asteros<sup>2</sup>, M. Z. Lyra<sup>1</sup>, L. Koukouloupoulos<sup>1</sup>, G. Dimopoulos<sup>3</sup>.

<sup>1</sup>*DNV Maritime R&D and Advisory*, <sup>2</sup>*Maran Tankers Management Inc.*, <sup>3</sup>*National Technical University of Athens*

**Design and implementation of a digital twin of a ship for sustainable operations**

C. Spandonidis, D. Paraskevopoulos, C. Saravanos

*Prisma Electronics S.A.*

**Operational data analysis to aid the optimization of retrofit solutions within 'RETROFIT55' framework**

<sup>1</sup>N. Themelis, <sup>2</sup>G. Nikolaidis, <sup>2</sup>V. Zagkas, <sup>3</sup>N. Tsoulakos

<sup>1</sup>*School of Naval Architecture and Marine Engineering* <sup>3</sup>*National Technical University of Athens*, <sup>2</sup>*SimFWD*, <sup>3</sup>*Laskaridis Shipping Co. Ltd*

**Moses shore tugboat control station: development of a shore-side system to support autonomous tugboat operation**

<sup>1</sup>N.P. Ventikos, <sup>1</sup>N. Themelis, <sup>1</sup>K. Louzis, <sup>1</sup>M. Koimtzoglou, <sup>2</sup>M. de Juan, <sup>2</sup>V. Perales

<sup>1</sup>*School of Naval Architecture & Marine Engineering, National Technical University of Athens*, <sup>2</sup>*Fundación Valencia port*

09:00 -11:00

11:00 -11:30

**Coffee Break**

11:30- 11:40

H.I.M.T. Scholarship for the MSc in Marine Engineering Management by BCA  
College Result Announcement  
Dr. N. Liapis, *H.I.M.T. President*

**Session 2**

Moderator: Gr. Grigoropoulos, *National Technical University of Athens*

**The ZEST project: design of a smart, zero-emission, multi-purpose vessel**

<sup>1</sup>A. Ktoris, <sup>1</sup>E. Yfantis, <sup>1</sup>G. Mallouppas, <sup>1</sup>C. Ioannou, <sup>1</sup>S. Damianou, <sup>2</sup>F. Gavriel, <sup>3</sup>T. Kounoudes, <sup>3</sup>K. Michail,

<sup>1</sup>*Cyprus Marine and Maritime Institute*, <sup>2</sup>*FP Marine Ltd*, <sup>3</sup>*SignalGeneriX Ltd*

11:40 -13:10

**Feasibility study of a large liquified CO2 carrier**

A. Flegkas, E. Boulougouris

*University of Strathclyde*

**On-board LNG reforming and simultaneous carbon capture: an alternative decarbonisation option for the maritime industry**

<sup>1</sup>Li Chin Law, <sup>2</sup>E.Mastorakos, <sup>3</sup>A.Trakakis, <sup>4</sup>Mohd. Roslee Othman

	<sup>1</sup> Cambridge Centre for Advanced Research and Education in Singapore (CARES), <sup>2</sup> Engineering Department, University of Cambridge, <sup>3</sup> RINA, <sup>4</sup> School of Chemical Engineering, University Sains Malaysia
13:10-13:30	<b>Technical Presentation</b> <b>Design and operation of passenger ships in relation to accommodation</b> P. Karavatakis, <i>ARCH-MID</i>
13:30 -14:30	<b>Lunch Break</b>
14:30 -16:30	<b>Session 3</b> Moderator: N. Themelis, <i>National Technical University of Athens</i>
	<b>Assessing fires onboard containerships using CFD simulations</b> K. Solomou, I.A. Koromila, K. J. Spyrou <i>School of Naval Architecture and Marine Engineering, National Technical University of Athens</i>
	<b>Hydrodynamic loading of multiple cylindrical bodies under the action of simple harmonic waves</b> S.P. Sarantidis, Th.P. Mazarakos <i>School of Engineering, Dept. of Naval Architecture, University of West Attica</i>
	<b>Re-production of the hull geometry of a traditional Greek boat by using advanced 3d scanning and ship design techniques</b> <sup>1</sup> G. Stratis, <sup>2</sup> S. Dimitrellou, <sup>2</sup> A. Theodoulidis <sup>1</sup> Commander Hellenic Navy, <sup>2</sup> School of Engineering, Dept. of Naval Architecture, University of West Attica
	<b>Critical research for the use of the ISO quality standards and conformity assessment standards in the maritime administrations for the execution of their functions</b> <sup>1</sup> V. Lympelopoulos, <sup>2</sup> S. Karagiannis <sup>1</sup> LiberoGroup, <sup>2</sup> Deloitte Greece
16:30 -18:00	<b>Session 4</b> Moderator: K. Spyrou, <i>National Technical University of Athens</i>
	<b>Impact of CII on decarbonization of global fleet: a test case in 8306 ships</b> <sup>1</sup> P. Pantazidi, <sup>1</sup> N.P. Ventikos, <sup>1</sup> E. Stamatopoulou, <sup>2</sup> Ch. Georgopoulou, <sup>2</sup> L. Koukouloupoulos <sup>1</sup> School of Naval Architecture & Marine Engineering, National Technical University of Athens, <sup>2</sup> DNV
	<b>Examining the effect of a wind-assisted propulsion system (Flettner rotors) on ship's energy efficiency</b> D. Gkoufas, N. Themelis <i>School of Naval Architecture &amp; Marine Engineering, National Technical University of Athens</i>
	<b>Carbon emissions regulations and their speed effect on the commercial</b>

	<b>operation of tankers</b> N. Adamopoulos, <i>Maran Tankers Management Inc.</i>
18:00 -18:10	<b>Synopsis and closing of the conference</b> <b>Dr. N. Liapis</b> , <i>President of the Hellenic Institute of Marine Technology</i>
<b>CLOSING OF THE CONFERENCE</b>	