

# PROGRAMME

## ANNUAL CONFERENCE OF MARINE TECHNOLOGY 2023

**Tuesday, 14 November 2023**

08:30 - 09:00 **Registration**

09:00 - 10:00 **Welcome**

Chair: S. Zolotas, *Vice President of Hellenic Institute of Marine Technology, RINA*  
Dr. N. Liapis, *President of the Hellenic Institute of Marine Technology*

Opening Addresses

Ch. Stylianidis, *Minister of Maritime Affairs and Insular Policy*

G. Pateras, *President of Hellenic Chamber of Shipping*

Ch. Simantonis, *President of Hellenic Shortsea Ship-owners Association*

V. Korkidis, *President of Piraeus Chamber of Commerce and Industry*

10:00 - 10:30

**Session 1**

**Technical presentation**

Moderator: S. Zolotas, *Vice President of Hellenic Institute of Marine Technology, RINA*  
G. Katsanis, *Inmartek Ltd*

**New Solutions for Fast Tracked REGAS Terminals**

L. Chiodetto, *Inmartek Ltd.*

**Invited speech**

**Are Biofuels actually more expensive than fossil fuels?**

**A genius combination of technical and financial approach**

Th. Chouliaras, *Institute of Maritime & Economic Strategy*

10:30 - 11:00

**Coffee Break**

11:00 - 12:30

**Session 2**

**Technical presentations**

Moderator: G. Cottrell, *Euromarine Ltd*

**Marine Compression Solutions, Sailing to a Carbon-Neutral Future**

Gianluigi De Mitri, *Inmartek Ltd.*

**The 3 pillars of innovation in the Marine Industry" by EDIT Automation**

**#1 Safety for People, #2 Protection of the Environment, #3 Sustainability for Corporations**

M. Sigalas, *E.D.I.T Automation*

**Assessment of Energy Efficiency Technologies in Commercial Maritime Vessels Using Computational Fluid Dynamics (CFD)**

D. Labropoulos, *FEAC Engineering*

**AI Psychometrics Screening Solution**

A. Kaloulis, *Innovative Maritime Emotional Intelligence Center - I.M.E.Q*

**Safer Ropes for Mooring Operations**

A. Zygouris, *Katradis Marine Ropes S.A.*

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## ANNUAL CONFERENCE OF MARINE TECHNOLOGY 2023

**Tuesday, 14 November 2023**

### **Tackling environmental regulations using digital tools**

D. Zisimipoulos, *RINA*

### **Containerships: 10 Cases that Upgrading the Twistlock Securing System to HD-FAT is a Good Investment**

G. Karavolos, *Seamark Marine Inc.*

### **Coriolis Mass Flowmeters, Torque Meter and onboard fast Data Acquisition**

A. Angelidis, *Technava S.A.*

12:30 - 13:30

### **Session 3 Panel Discussions**

Moderator: A. Vamvakaris, *Vamuaship Maritime S.A.*

### **Sustainable solutions & energy saving technologies in shipping**

B. V. Puijebroek, *ALFA LAVAL*

D. Theodosiou, *DANAOS Management Consultants S.A.*

V. Tsartsitalidis, *ERMA FIRST*

A. Symeonidis, *METIS Cyberspace Technology S.A.*

A. Athanasopoulos, *UTEKO*

M. Pantazopoulos, *Liberian Registry*

### **Novel technologies for the construction, conversion & survey of ships**

M. Diacakis, *ABS*

C. Georgousopoulos, *Ariston Navigation Corp.*

L. Koukouloupoulos, *DNV*

13:30 - 14:30

### **Lunch break**

14:30 - 15:00

### **Session 4**

Moderator: Dr. N. Liapis, *President of HIMT*

### **Start-ups, Industry and Academia: a dialogue for the future of marine technology**

A. Pantouvakis, *School of Maritime and Industrial Studies, University of Piraeus*

Th. Vlachopanagiotis, *Rhoé*

M. Striligás, *Vertliner*

15:00 - 17:30

### **Round Table Discussion**

### **GHG Regulations in Shipping: Challenges and Pathways of Compliance**

Moderator: S. Hatzigrigoris, *Advanced engineering services*

D. Antonopoulos, *ABS*

I. Kokarakis, *Chairman of SNAME, Bureau Veritas*

L. Koukouloupoulos, *DNV*

P. Kourkountis, *Chairman of MARTECMA, Sea Traders S.A.*

A. Trakakis, *RINA*

M. Vergetis, *INTERCARGO*

# PROGRAMME

## ANNUAL CONFERENCE OF MARINE TECHNOLOGY 2023

### Wednesday, 15 November 2023

#### 09:00 - 11:00 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**

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

<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. Koimtoglou, <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*

#### 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 Presentation  
Dr. N. Liapis, *H.I.M.T. President*

#### 11:40 - 13:10 Session 2

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

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

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

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

##### **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**

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

<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*

# PROGRAMME

## ANNUAL CONFERENCE OF MARINE TECHNOLOGY 2023

**Wednesday, 15 November 2023**

13:10 - 14:10 **Lunch Break**

14:10 - 16:10 **Session 3**

Moderator: N. Themelis, *National Technical University of Athens*

**Assessing fires onboard containerships using CFD simulations**

K. Solomou, I.A. Koromila, K. J. Spyrou

*School of Naval Architecture and Marine Engineering, National Technical University of Athens*

**Hydrodynamic loading of multiple cylindrical bodies under the action of simple harmonic waves**

S. P. Sarantidis, Th.P. Mazarakos

*School of Engineering, Dept. of Naval Architecture, University of West Attica*

**Re-production of the hull geometry of a traditional Greek boat by using advanced 3d scanning and ship design techniques**

G. Stratis<sup>1</sup>, S. Dimitrellou<sup>2</sup>, A. Theodoulidis<sup>2</sup>

<sup>1</sup>Commander Hellenic Navy, <sup>2</sup>School of Engineering, Dept. of Naval Architecture, University of West Attica

**Critical research for the use of the ISO quality standards and conformity assessment standards in the maritime administrations for the execution of their functions**

V. Lymperopoulos<sup>1</sup>, S. Karagiannis<sup>2</sup>

<sup>1</sup>LiberoGroup, <sup>2</sup>Deloitte Greece

16:10 - 17:40 **Session 4**

Moderator: K. Spyrou, *National Technical University of Athens*

**Impact of CII on decarbonization of global fleet: a test case in 8306 ships**

P. Pantazidi<sup>1</sup>, N.P. Ventikos<sup>1</sup>, E. Stamatopoulou<sup>1</sup>, Ch. Georgopoulou<sup>2</sup>, L. Koukouloupoulos<sup>2</sup>

<sup>1</sup>School of Naval Architecture & Marine Engineering, National Technical University of Athens, <sup>2</sup>DNV

**Examining the effect of a wind-assisted propulsion system (Flettner rotors) on ship's energy efficiency**

D. Gkoufas, N. Themelis

*School of Naval Architecture & Marine Engineering, National Technical University of Athens*

**Carbon emissions regulations and their speed effect on the commercial operation of tankers**

N. Adamopoulos

*Maran Tankers Management Inc.*

17:40 - 17:50 **Synopsis and closing of the conference**

Dr. N. Liapis, *President of the Hellenic Institute of Marine Technology*

**CLOSING OF THE CONFERENCE**



## DIAMOND SPONSOR

**Inmartek** is a dynamic firm representing manufacturers' interests in several sectors in Greece and Cyprus including but not limited to the Marine, Offshore, Petrochemical, Power, Pipeline, Pharmaceutical and Chemical markets. Having successfully served the market for more than 30 years, inmartek has been building up an extensive global network of suppliers from the world's leading manufacturers and stockists ensuring reliable and quality products are delivered on time to end users and contractors.

Among these, are the below manufacturers which are further presented during the Annual Conference of the Hellenic Institute of Marine Technology (H.I.M.T.) on the 14th and 15th of November 2023.

**Mampaey Offshore Industries BV** is the global market leader in the design, engineering, manufacturing and commissioning of berthing, mooring and towing systems. Over the years, dedication to serve customers has resulted in several maritime innovations that have driven the new standards in the towing and mooring industry. The developments have contributed to a continuously expanding global customer base. All products are designed and manufactured to safely withstand the toughest mechanical and environmental conditions.

**MIB Italiana SpA** has rapidly evolved as the leading supplier of customized connections and safety solutions for the International Oil and Gas Sector. Since the early 1970s, when MIB developed the first LNG Quick Connect Disconnect Coupler, ongoing engineering activities have allowed the company to provide the highest standard of equipment for the transfer of cryogenic liquids, LPG and other refrigerated gaseous fluids, for temperatures down to -196°C. These developments have been a result of close and continuous liaison with major oil and gas companies and vessel operators and matching the ever increasing and stringent demands of the changing world.

**SIAD Macchine Impianti SpA** has many years of experience in the design and construction of highly reliable compressors and air separation units that adapt to the extreme flexibility and constant changes for all marine and offshore compression needs. Specifically, marine applications include (flash gas, off gas, regeneration gas, gas lift, flare gas recovery, recycle gas, fuel gas (BOG compression into HP and LP engines), fuel gas (BOG compression for auxiliary equipment) and re-liquefaction (feed BOG and refrigeration). SIAD can offer complete compression solutions that thanks to their modular configuration ensure easy installation and maintenance, always conforming to the main international standards in design and safety.

**Inmartek** continues to strengthen its leading position via a process of direct growth reflecting our strategy: a determination to provide customers with complete packages of products of certified quality and guaranteed performance as also services to assist the client in resolving technical problems within limited time.

Visit our website for more information and our complete product range: [www.inmartek.com](http://www.inmartek.com)

# GOLD SPONSOR



**EDIT Automation Ltd.** for 2023 has been recognized as the largest emerging technological company, specialized in Automation Systems in the Marine & Industrial sector.

The firm was founded by Mr. Sigalas Marcos in 2006 and has steadily grown to support projects like DESIGN & PROGRAMMING, MANUFACTURING & INSTALLATION, MAINTENANCE & REPAIRS, according to the I.M.O. regulations aboard vessels and offshore facilities all over the world.

In the last decade, EDIT Automation has been accelerating climate innovation in the maritime sector, as it navigates with success and unprecedented innovation the transition to clean energy, and the digital transformation in every aspect of the Greek and global maritime economy.

EDIT Automation's R&D Marine Scientist Division as well as its ABS Quality Evaluation ISO 14001 & ISO 9001, certified Automation & Electrical Engineers team, to provide unique comprehensive 360 experience, offering turn-key solutions with a mission to protect and respect our blue community.

With the highest standard of technology, EDIT Automation each year invented an innovative automation system, helps marine companies comply with EEXI requirements. So, in 2022 developed the ECO 8 SHaPoLi, a Shaft Power Limitation solution that will enable existing ships to meet the minimal energy efficiency level to comply with the new green regulations.

ECO 8 SHaPoLi system measures the actual power and limits it at the maximum allowed to meet the ship's required EEXI. The system has been designed according to the guidance of major classification societies, the only one system with 5 certifications by 5 Class surveyors, ABS, BV, DNV, LR and RINA within the first 6 months of 2023, trusted by 130 shipping companies worldwide for CII and EEXI I.M.O. regulations.

# SILVER SPONSORS



**FEAC Engineering P.C.** is an engineering & consulting company, highly specialized in Simulation Driven Product Development & physics-based Digital Twins. The company is based in Greece and operates in the global market by developing and providing specialized simulation software and consulting services, to solve challenging & complex engineering problems. FEAC's worldwide awarded services range from Computer Aided Design (CAD) drafting, advanced multi-physics Finite Element Analysis (FEA), Boundary Element Analysis (BEM) and Computational Fluid Dynamics (CFD) to Structural Health Monitoring (SHM) and design optimization techniques. There is extensive experience in project management & certification of products (CE marking) as well. FEAC combines 1D-simulation (aka system simulation) with detailed 3D simulation techniques (CFD, FEM, BEM) to build up a comprehensive Digital Twin of the process or object/assembly, not only in the phase of the development, but also in the phase of realization (manufacturing process) and operation (under operational conditions). This allows FEAC to create a Holistic Digital Twin throughout the product's lifecycle. Our expertise is to develop multi-physics, high-fidelity simulations that couple structural mechanics, heat transfer, fluid flow, electromagnetics, acoustics, etc., and represent the mechanical behavior of components under complex environmental conditions. Due to the company's high expertise in Simulation, Siemens Digital Industries Software has appointed FEAC Engineering as the exclusive authorized partner of its CAE portfolio in the countries of Greece, Cyprus & Malta. FEAC develops PITHIA-CP, a world-leading Boundary Element Solver for Cathodic Protection Digital Twins, which is used by SIEMENS as an add-on on its Simcenter 3D software portfolio. FEAC has offered its expertise in physics-based simulations to numerous engineering companies, product manufacturers from a wide range of industries, research centers and universities yielding to an impressive portfolio of delivered projects. The company has strong presence in the commercial Marine Industry and counts several collaborative projects with the Greek Navy.



## J. & E. PAPAPOPOULOS SA

**J. & E. PAPAPOPOULOS SA** is an LR certified company, representing major European & USA manufacturers in the fields of ball bearings, marine bearings, sealing systems, engineering equipment & services for marine & industrial applications.

### Products:

- SKF, Bearings, Hydraulic Couplings & hydraulic Bolts, Condition Monitoring & Maintenance Tools. Engineer services on board.
- Orkot Marine Bearings for rudder, stern and propeller shafts, stabilizers
- Trelleborg Sealing Solutions
- RegalRexnord, Rollway Bearings, Kop-Flex & Jaure hydraulic couplings
- Cooper, split to the shaft bearings for intermediate positions
- Durbal rod ends for hydraulic cylinders • Igus GmbH, Cables & Cable Chains
- Dellner Shaft Disc Brakes
- Mechanical Seals for Pumps, Seat Rings for butterfly valves
- Asbestos Free Brake Linings with DNV approval
- Spare parts for Wartsila W20L, W26L, W32 and Nohab engines, for Purifiers & Pumps
- Seal Jet: Made to order special seals with SKF materials.

### Services:

- Our experienced team provides Engineering consulting, Vibration Measurements and Analysis on site, and technical support.
  - Engineering design & construction services for Automatic lubrication systems.
- J. & E. Papadopoulos S.A is an SKF Marine Expert Company & Lubrication Expert Company.



## I. M. E. Q.

INNOVATIVE MARITIME  
EMOTIONAL INTELLIGENCE CENTER

**IMEQ**® was founded in 2016 with a mission to safeguard crew psychological health and safety, whilst decrease risk factors associated with poor employee psychological health and workplace safety. Our mission is to creating resonant working environments for onboard employees and ashore personnel with main goal to reduce incidents onboard due to human error. We comprise a team of psychologists collaborating closely with Harvard University alumni. Our focus involves integrating artificial intelligence into mental health aspects within the maritime sector. We possess the expertise to address pertinent concerns related to mental health and its impact on occupational performance. Through our efforts, we've devised strategies, certifications, and training programs that prove valuable to ship-owning companies. Our digital platform utilises standardized and evidence based assessments, an advanced test flow process and machine learning algorithm, that provide objective data on psychological & personality traits, attitudes and skills to simplify the hiring process and improve job fit. In September 2023 we are launching the first ever on a world-wide scale, Predictive Model on Mental Health Fitness with 98% accuracy. IMEQ's Cutting-Edge AI Integration using standardized testing and six AI models incorporated in the platform, can predict if a candidate will exhibit mental health related issues in the future.



# SILVER SPONSORS



KATRADIS GROUP OF COMPANIES

**KATRADIS GROUP** operates since 1936 with strong presence in the marine industry as a manufacturer of a wide range of products such as synthetic mooring ropes, wire ropes and sacrificial anodes for all vessel types and also provider of anchors, chains, port development & deck equipment. We offer advanced customer service meeting the highest demands and complying with the international guidelines and standards for safe operations.

**Our Success with numbers:**

**86** Years Serving the Marine Industry  
**10046** Vessels All Around the World Trusting Katradis Products  
**73** Service Points All Around the World  
**6.920** Satisfied Customers  
**Over 2.500** HMPE mooring ropes produced per year  
**Over 12.000** Synthetic mooring ropes produced per year  
**Over 6.500** Tons of wire ropes produced per year  
**Over 300** Tons of sacrificial anodes per year  
**Turnover rise to 36,611,830€** for the fiscal year 2021

Certified as per Quality Management system ISO 9001:2015 and Environmental Management system ISO 14001:2015 KATRADIS GROUP is committed to operate responsibly and more sustainable at its core with high level of product quality and service worldwide.



With over 160 years of experience, **RINA** is a multinational company that assists clients in building robust and successful businesses. Our global network consists of 5,300 talented professionals provides independent support throughout the entire program life cycle.

RINA provides a wide range of services across Marine, Certification, Energy&Mobility, Infrastructure & Real Estate and Industry sectors and is a member of key international organisations and an important contributor to the development of new legislative standards.

Playing a proactive role in shipping decarbonisation, RINA works with designers to ensure compliance with the applicable rules for dual-fuel vessels and innovative designs incorporating new fuels, leading to increased efficiency and reduced emissions for a more sustainable future.

We assist the superyacht sector on the use of alternative fuels by providing rules and guidelines for the certification of such systems, especially through our new service RINA MAXIMA, dedicated to luxury motor or sailing yachts.



**Seamark** with offices in Greece, the Netherlands and China, has been distinguished in the Greek shipping market in the last 34 years for the provision of high-tech marine and port equipment. It exclusively represents leading manufacturers such as the international group of Trelleborg and SEC Germany and is a member of international Chambers and Trade Organizations.



**Technava** was founded in 1968 aiming to supply marine equipment and technical support to the Greek Shipping Industry. Today, it is one of the leading companies in the supply, installation and service of equipment on board all types of ships. Technava's scope also includes services and equipment for the industrial sector and in particular for power plants, city municipalities and the oilfield industry. Technava sails on a crew of 90 highly skilled individuals including marine, chemical, mechanical and electrical engineers. Our many years of experience in the supply and the service allows us to set customer satisfaction as our primary goal.



# BRONZE SPONSORS



**ABS**, a leading global provider of classification and technical advisory services to the marine and offshore industries, is committed to setting standards for safety and excellence in design, construction and operation. Focused on safe and practical application of advanced technologies and digital solutions, ABS works with industry and clients to develop accurate and cost-effective compliance, optimized performance and operational efficiency for marine and offshore assets. From its world headquarters in Houston, ABS delivers survey and engineering services and solutions to clients through a network of local representatives working from more than 200 offices in 70 countries.



**Alfa Laval** is active in the areas of Energy, Marine, and Food & Water, offering its expertise, products, and service to a wide range of industries in some 100 countries. The company is committed to optimizing processes, creating responsible growth, and driving progress - always going the extra mile to support customers in achieving their business goals and sustainability targets. Alfa Laval's innovative technologies are dedicated to purifying, refining, and reusing materials, promoting more responsible use of natural resources. They contribute to improved energy efficiency and heat recovery, better water treatment, and reduced emissions. Thereby, Alfa Laval is not only accelerating success for its customers, but also for people and the planet. Making the world better, every day. It's all about Advancing better™. Alfa Laval has 20,300 employees. Annual sales in 2022 were SEK 52.1 billion (approx. EUR 4.9 billion). The company is listed on Nasdaq OMX.



About **ARISTON**. The Team: A team of specialized asset and ship-management experts develops projects to meet the individual ambitions, targets and risk appetite of the investor. The highly qualified shore based ship-management team handles the daily challenges of worldwide trading. The officers and crew are continuously and vigorously trained both onboard and ashore, to meet all company standards as well as national and international requirements. Ariston's culture of continuous retraining and collaborative learning is the backbone of an efficient corporate, technical and commercial management of the ships. Evolution: The Company has evolved from being a traditional ship-management company into a maritime asset management company. Ariston originates and structures projects for third parties in accordance with their requirements, utilizing experience built up over the years. Our modern management approach ensures projects run both efficiently and effortlessly for the client, throughout the lifetime of their investment. Our management actively utilizes the value of big data both on-board and ashore in order to meet clear targets. Ariston is able to monitor pre-defined KPI's against benchmark values by collecting real-time data through manual and automated means. This process enhances critical decision making and adds value. Ariston provides tailor-made management solutions by simplifying the maritime industry's complexities through combined knowledge and transparency. Heritage: Ariston is owned by the Xylas family, a well respected, 4th generation traditional Greek shipping family with its origins founded in the early 1900s. Over the years the group has managed in excess of 120 ships and has supervised the construction and delivery of over 65 new-buildings, primarily in the dry-bulk sector, in first class European and Asian shipyards.



At **Bureau Veritas Marine & Offshore**, we share a drive to shape a better maritime world for future generations. Pioneering the safety and performance of new technologies since 1828, we are one of the world's leading ship classification societies and offshore safety and verification bodies, with a global network to support clients worldwide. We understand the challenges clients face in designing, building and operating a truly sustainable maritime business. We're by their side; supporting them with practical advice, tools and technology to run safe, sustainable and high performing businesses. We're known for being responsive and building strong and long relationships with our clients; for being flexible without compromise. And because we're part of Bureau Veritas, a world leader in testing, inspection and certification services with over 80,000 employees in more than 1600 locations, we have a truly global outlook, bringing a broader understanding of the global supply chain and blue economy. So, whether we're meeting the challenge of decommissioning offshore oil and gas assets safely and sustainably, helping shipowners embrace decarbonisation and digitalisation to transport goods safely and sustainably, or supporting marine renewable energy technologies, Bureau Veritas Marine & Offshore is shaping a better maritime world. Bureau Veritas Marine & Offshore. Shaping a better maritime world.



Founded in 1899, **ClassNK** is a ship classification society dedicated to safer and cleaner seas. On top of diverse technical services including surveys and classifications of ships and marine structures based on its own rules, statutory certifications on behalf of more than 100 flag states, and management system certifications in line with ISO and other international standards, ClassNK has committed to providing the industry with its full support to pave the way for digitalization and decarbonization challenges. Devoting significant resources and expertise to R&D, ClassNK works in close partnership with the industry players to develop and implement a broad array of innovative and cutting-edge technological solutions aimed at securing a safer, greener, and sustainable future. ClassNK provides the highest quality services and supports its clients 24/7 through a network of professionals at 130 exclusive surveyor offices worldwide. With roughly 270 million gross tons or some 20% of the world's merchant fleet on the register, ClassNK is one of the world's largest classification societies in terms of gross tonnage.

# BRONZE SPONSORS



**C&A STAVROS KASSIDIARIS S.A.** is a leader company in Automation Systems in Shipping and Industry since 1978. It covers the whole range of procedures and certifications required for the making of Electronic - Electrical and Pneumatic Automation Devices. From research & development to design and construction. With facilities in two privately owned high-rise buildings in Piraeus, up-to-date machinery, laboratories, and warehouses with a large stock of products, operates successfully in the following areas:

- Representation of more than 50 international manufacturers of marine electromechanical equipment
- Installation & service of electric & pneumatic automation systems
- Construction of power distribution & automation panels
- Construction of monitoring systems for engines, pumps, and boilers
- Construction of tank level control systems
- Measurement & certification services for measuring instruments
- Supply of electrical - hydraulic & pneumatic components and instruments
- Construction of special pressure / level sensors

The philosophy of C&A STAVROS KASSIDIARIS S.A. is based on the maximum satisfaction of its customers, providing high quality products and services at competitive prices. Proof of the company's value is its own client list with more than 3,000 partnerships including the Ministry of National Defense and NATO, all Greek shipping companies, major shipping companies abroad, shipyards, refineries, food and chemical industries and organizations such as PPC and EYDAP etc.



**Danaos** is a leading provider of maritime and technology solutions. With over 36 years of experience and more than 600 clients and 7,000 vessels worldwide, Danaos is a trusted partner for organizations of all sizes. We offer a full spectrum of technology solutions to help you achieve your digital transformation goals. We work with you to understand your specific needs and challenges, and then we develop and implement tailored solutions to meet those needs. Our solutions are designed to help you improve efficiency, reduce costs, and mitigate risks. We also offer a wide range of support services to ensure that you get the most out of your investment.



**DNV** is an independent assurance and risk management provider, operating in more than 100 countries. Through its broad experience and deep expertise DNV advances safety and sustainable performance, sets industry standards, and inspires and invents solutions. DNV is the world's leading classification society and a recognized advisor for the maritime industry. We enhance safety, quality, energy efficiency and environmental performance of the global shipping industry - across all vessel types and offshore structures. We invest heavily in research and development to find solutions, together with the industry, that address strategic, operational or regulatory challenges.



**Eastern Mediterranean Maritime Limited (EASTMED)** is a full service ship Management Company operating out of Glyfada (Athens) Greece. It offers seaborne transportation services to the energy, industrial and agricultural sectors. Its reputation has been built on the quality services that are provided over the 42 years of operation by linking supply and demand regions of the world, with shipping operation excellence. The solid expertise of EASTMED in the ocean transportation business helps the customers to execute their strategy, create new opportunities and improve their performance against peers. By operating a fleet of world class tankers EASTMED moves crude oil and its products across the globe. EASTMED cooperates with the petroleum industry players and provides midstream services to equity producers, refineries and traders. EASTMED also works together with leading food and grain processing companies, helping them to transport safely and efficiently bulks of agricultural products from the farms to the markets of the world. EASTMED manages a fleet of 78 tankers, bulk carriers and containers and employs 200 staff onshore and 3300 seagoing staff.



Founded in 2009 and headquartered in Greece, **ERMA FIRST** is a leading manufacturer of ballast water treatment systems (BWTS) and sustainable marine equipment solutions. Our robust systems and solutions ensure worldwide compliance, provide operational simplicity and reduce operational expenditure. ERMA FIRST's customer-centric approach offers flexible and convenient servicing through a trusted network of certified engineers worldwide. ERMA FIRST provides sales, maintenance and training to clients via a network of offices in 46 countries. ERMA FIRST offers a complete range of ballast water treatment solutions (BWTS), holding USCG & IMO Type Approvals. In addition, ERMA FIRST is an experienced manufacturer of pioneering sustainable marine equipment solutions. ERMA FIRST won the Lloyd's List Technical Achievement Award (2013), the GREEN4SEA Technology Award (2016) and the GREEN4SEA Sustainability Award (2023).

# BRONZE SPONSORS



Since 1991, **Franman** has provided a wide range of services to the shipping industry, focused on shipbuilding equipment, spare parts, ship repairs and service, ship supplies, security, underwater cleaning and consulting. From the beginning, the company followed the model of the Japanese Trading Houses with their one-stop-shop philosophy. The company focused on building partnerships in the Far East - initially Japan and South Korea, and later China. Franman has always aspired to be a leader in Greek and international markets. This has fuelled its drive to expand its partnerships and hence its offerings to shipowners. During these 3 decades the company has equipped 4,500 newbuildings. Today, the company connects 700 shipping companies with 155 suppliers of equipment and services. In 2021 Franman was the proud recipient of the Lloyds List Piraeus International Centre Award.



**The Liberian Registry** has a long-established track record of combining the highest standards of safety for vessels and crews with the highest levels of responsive and innovative service to owners. Comprised of over 5,900 vessels aggregating 260 million gross tons, representing 15 percent of the world's ocean-going fleet. Given the size of its fleet and continued growth, the Registry has built an extensive global infrastructure of support made up of 30 regional offices and over 450 inspectors and auditors providing 24-hour service anytime and anywhere in the world. As an industry leader in technological innovation, the Liberian Registry has been proudly serving the shipping industry for over 75 years. As a founding member of the International Maritime Organization (IMO), Liberia has taken a leading role in global shipping at a very early stage and continues to be an active member of the IMO having a well-deserved reputation for supporting international legislation designed to maintain and improve the safety and effectiveness of the shipping industry and protection of the marine environment.



**Marichem Marigases** is a leading company in the international marine chemicals and gases industry, manufacturing and providing high quality marine chemicals, coatings, chemical equipment, gases and refrigerants, cutting and welding machinery and accessories, fire-rescue and safety services to the shipping industry. We offer a variety of products at more than 2,100 ports, supplied by a distribution network of 196 stock points, on a 24/7 basis. Its efficient operation is backed up by decades of experience from dedicated marine experts, who operate according to ISO 14001 & 45001 to ensure compliance with the latest norms and changing standards of the international environmental legislation. Through continuous research for new, readily biodegradable raw materials and advanced technological methods, we manufacture and provide safe, naturally biodegradable products, as we acknowledge that environmentally sound business constitutes a competitive edge in today's global marketplace. Our main objective is to reinforce effectiveness through ceaseless innovation and to gradually eliminate the use of solvent-based raw materials, in order to replace them fully with non-hazardous for the marine environment substances. Our specialists in trade, research and development, production, supply and distribution are always ready to render top tier services to our customers, making Marichem Marigases your ideal partner for successful shipping.



**Marita Hellas SA** is a company that supplies and inspects the Life Saving and fire fighting equipment of any type of vessel. With an experience of more than 35 years Marita Hellas provides a complete solution in respect of Safety, Fire fighting and Life Saving Appliances. Our quality services are approved by leading safety manufactures and from the major IACS classification societies. MARITA HELLAS SA product and services portfolio includes but not limited to:

- MARINE EVACUATION SYSTEM (MES): 50 - 860 persons capacity.
- LIFERAFTS: 4 - 158 persons capacity.
- RESCUE & FAST RESCUE BOATS
- FIRE FIGHTING EQUIPMENT: fire extinguishers, hoses, breathing apparatus etc.
- FIRE FIGHTING SYSTEMS: CO2, Novec, FM200, etc.
- LIFE SAVING APPLIANCES (LSA): Immersion suits, inflatable lifejackets, etc.
- SHIP SUPPLIES

Strategically located at the Industrial park of Schisto, Marita Hellas is able to serve its customer at any port of Greece. Marita Hellas technical team is continuously trained and is using the latest technological equipment in order to perform the services according to the latest local and international regulations and its updates.



The Marshall Islands Registry  
[www.register-iri.com](http://www.register-iri.com)

**INTERNATIONAL REGISTRIES, INC.** and its affiliates (IRI) provide administrative and technical support to the Republic of the Marshall Islands (RMI) Maritime and Corporate Registries. The RMI Registry is one of the leading registries in the world with 5,526 vessels surpassing 197 million gross tons at the end September 2023. IRI has a network of 28 worldwide offices that have the ability to register a vessel, including those under construction, record a mortgage or financing charter, incorporate a company, issue seafarer documentation, and service clientele. The quality of the RMI fleet can be measured by the RMI's continued White List status on both the Paris and Tokyo Memorandums of Understanding (MoUs). The RMI also meets the flag criteria for a low risk ship under the Paris and Tokyo MoU's New Inspection Regimes and has qualified for the United States Coast Guard's Qualship 21 roster for 19 consecutive years, which is unprecedented. The most important asset to the RMI Registry is its customers and IRI strives to provide them with full service from any office, 24 hours a day, seven days a week.



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Originating from Marine sector, **MAS S.A.** specializes in the design, development and deployment of advanced Power Management, Control, Protection & Monitoring systems, including Retrofits and Upgrades of existing equipment. MAS S.A., serving its customers in 26 countries, is the Authorized Channel Partner, Central Distributor Facility and Training Center for Woodward in the Eastern Mediterranean, CIS countries and the Balkans. As Woodward business partner, the biggest design & manufacturing group for controls, protection and monitoring solutions for prime movers, MAS provides hydraulic-mechanical governors & actuators service overhauling in its authorized independent service facility as well as on-site troubleshooting. MAS S.A. is also Kidde / Graviner's (Carrier's) Authorized Distributor and Service Provider in Greece for 35 years, supporting all Greek ports and shipyards with oil & gas fire detectors installed on thousands of ships and fleets worldwide. Additionally, in partnership with AEG Power Solutions, MAS offers cutting-edge UPS systems to bolster power continuity and reliability. The company is certified with ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001.



**METIS Cyberspace Technology** is a leading digital solutions provider offering automated data acquisition and performance evaluation using machine learning and AI techniques. Its team of skilled engineers and analysts are empowering shipping's digital transformation. Sustainability is at the core of all that METIS does. The platform's advanced emissions monitoring helps vessel owners optimise efficiency as they manage environmental responsibilities. Its portfolio includes tools which support compliance with the IMO's CII requirements while also predicting the trade-off between emissions reduction and debt for ships financed under the Poseidon Principles. Commitment to maritime decarbonisation is further evident in the participation in the EU-backed ENGIMMONIA, promoting the adoption of alternative fuels.



**OCEANKING** is a leading marine Group of companies established in 1989, specializing in technical and commercial aspects of the maritime industry. The company maintains a dedicated team of over 40 permanent personnel, primarily comprising highly qualified Marine Engineers, Naval Architects, and Electronic Engineers who bring extensive expertise in engineering, shipbuilding, ship repair, sales, and ship operations. OCEANKING boasts a robust customer base, comprising more than 350 Greek Shipping Companies. The company's remarkable success is rooted in its reputation, profound technical expertise, and the personal relationships nurtured over the years with shipowners and technical directors in the Greek and Cypriot maritime community. These relationships have paved the way for devoted partnerships, making OCEANKING the preferred supplier in the industry. Our Group encompasses the following subsidiary companies:

**OCEANKING SA:** Serves as the primary equipment representative and integrated support services provider. It plays a pivotal role in the commercial marine sector in Piraeus, specializing in the representation, promotion, and sale of new equipment and systems, and extending technical support. OCEANKING SA is actively involved in ship newbuilding, conversions, and repair projects.

**OCEANKING Engineering:** Is dedicated to offering comprehensive engineering and technical services, with a strong emphasis on after-sales support for marine equipment and systems. These services include maintenance, troubleshooting, and training, ensuring the seamless operation of vital maritime assets.



**Papadakis Shipyards Brokers (PSB & CO. S.A.)**, carrying 34 years of experience in the Ship Repair Industry, is widely known for its aptitude on building reliability and strong personal relationships with its wide range of customers and global associate network. PSB & CO S.A. strives to provide excellence and the highest level of services to our customers by continually horizon-broadening our knowledge and expertise. Since 1988, our company officially represents Shipyards worldwide for the Dry-dock and Repairs of seagoing vessels. Our range of services are:

- Drydock and Repairs
- Afloat repairs worldwide through local workshops (Far East, Mediterranean-Black Sea, Central-Latin America, S. Africa)
- Marine Spares Supply
- Riding teams (Romanian fitters, welders, electricians with SBK)
- Safety Equipment Inspections worldwide (FFE, LSA)
- Underwater cleaning inspections / Diving Services
- Technical stores and provisions supply
- BWMS (system supply and after sales services)
- DeSox Scrubber (system supply and installation services)
- DF & LNG specialized services

Being active in the Shipping Industry for more than three decades, we guarantee that we can achieve the best terms and conditions in favor of our customers. Our extensive portfolio and the volume of business every year is our best advertisement, verifying the 'strength in numbers' dictum. We choose to represent only specialized workshops and our principals are of the highest quality, offering maximum transparency and value for money to our customers.

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**Semac Group**, based in Greece, consists of Semac Construction S.A. and Semac Automation S.A. As of 1994 Semac is present in Greek market supplying products Greek industries and marine sector while also solutions and systems to various projects in Greece, Cyprus and abroad. Semac Automation is a leader in measurement instrumentation, services and solutions for industrial process engineering. We provide process solutions for flow, level, pressure, temperature, analytics, drives, recording and digital communications, optimizing processes in terms of economic efficiency, safety & environmental impact. In order to offer the most advanced and high-quality process automation, we partner with the most innovative and expert manufacturers in the world like Krohne, Danfoss, Burkert, Ecom (a P+F brand), Delta-Mobrey, Maselli Misure, Michell Instruments, United Electric Controls, Enotec, Knick, PMA-West-Gems Sensors Group, Simex, Ege, IKM Instrutek etc. In marine sector apart from the spare products that we daily supply various companies, we have solutions for monitoring of fuel consumption, ballast water management, ATEX cameras & mobile devices (smartphones/ tablets), drives for marine applications, analyzers and calibrators. Semac Construction is a leading contractor & manufacturer, specializing in the Oil & Gas industries by undertaking electro-mechanical EPC and other contracts and delivering complete metering & analyzer systems.



**UTECO** is a technical equipment provider in the field of automation with expertise in industrial, marine applications and infrastructure projects.

The company holds strong position with 6 Business Units: USP (Uteco Sensor Production), M&I (Measurement & Instrumentation), APM (Automation Power & Motion), C&C (Cables & Components), ERS (Electrification - Renewable - Storage) and Service.

Continuing a history of 50 years of leadership, experience, and vast knowledge in manufacturing sensors for temperature and level, UTECO is driven and underpinned by a commitment to technological innovation, green energy, and passion for excellence.

We exclusively represent leading brands that meet customers' needs for specialized products such as sensors, instrumentation and process control, power automation systems and special cables by providing reliable and sustainable solutions.

Sustainability is at the heart of our company's strategy, we are making the most of our effort to leave our positive footprint on the planet through our responsible operations by offering solutions along the entire value chain.

Following our purpose and leveraging our strong position and expertise in the market, we aim to create superior value for all our stakeholders by pushing the boundaries of technology in everything we do.