

## **The International Maritime Transport & Logistics Conference**

### **MARLOG 12**

**Innovative Technologies for Ports and Logistics  
Towards a Sustainable Resilient Future**

# **Program**

12 – 14 March 2023

Sunday, 12<sup>th</sup> March 2023

# Session 1

## Supply Chain Resilience Strategies and its Role in Enhancing Competitiveness in the Maritime Transport and Logistics

Session Chair

Prof. Maja Fošner

Dean, Faculty of Logistics, University of Maribor, Slovenia

12:00 | Challenges and Changing Dynamics - Energy & Maritime Industry.

**Mr. Khamis Juma Buamim**

Chairman, The Dubai Council for Marine & Maritime Industries (DCMMI Emirates)

12:20 | Supply Chain Trends

**Mr. Kristof Waterschoot**

Managing Director Antwerp Port Training Center (APEC), Port of Antwerp-Bruges International, Belgium.

12:40 | Resilience of Maritime Transport Chains

**Dr. Burkhard Lemper**

President of Global Shipping Think Tank Alliance (GSTTA), Shanghai, China.

Managing Director, Institute of Shipping Economics and Logistics (ISL)

Professor at the Bremen City University of Applied Sciences, Germany

13:00 | Resilience of Supply Chains.

**Dr. Philippe Guillaumet**

European Projects Manager, Port of Marseille, France.

13:20 | Session Discussion

13:30 | Coffee Break

# Session 2

## Requalification of Human Resources Capabilities of Port and Logistics Community for Future Professions

Session Chair

**Capt. Anwar Buftain**

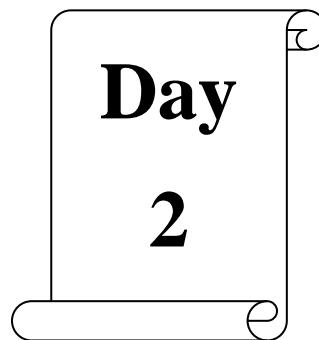
**Team Leader, Marine Affairs & Risk Assessment,  
Fleet Operations Group  
Kuwait Oil Tanker Company, Kuwait**

- 14:00** | Maritime Industry towards SDGs – Capacity Building Adaptation to Climate Change Impacts  
| **Dr Gamal Ghalwash**  
| AASTMT President’s Marine Consultant.
- 14:20** | An Overview of the Existing Gap Between the University Educational Offers Focused on  
| Entrepreneurship and the Maritime Cruise Industry: Evidence From Romania  
| **Prof. Gheorghe Militaru,** Eng. Andreea Barbu, Prof. Dana Deselnicu and Dr. Sandra Haddad  
| Professor, University POLITEHNICA of Bucharest, Romania.
- 14:40** | Presentation Title  
| **Mrs. Ana Rumbeu**  
| Training Director, ValenciaPort Foundation, Spain
- 15:00** | Strengthening University Third Mission Through Education – Enterprise Cooperation: The Value of  
| Innovation Ecosystems  
| **Prof. Augustin Semenescu,** Dr. Loredana Manasia and Dr. Elena Cristina Udrea  
| Professor, University POLITEHNICA of Bucharest, Romania.  
| Vice-Director of the Industrial Engineering and Robotics Doctoral School
- 15:20** | **Session Discussion**
- 15:30** | **Lunch**

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# Session 3

## Optimization of Port Infrastructure and Operation

### Session Chair

Prof. Ahmed Amin

Professor, Civil Engineering Department, Suez Canal University

- 09:00 | Container Moves per Lift: The Impact of Spreader Technology On Bay Time  
**Prof. Shmuel Yahalom**, Prof. Changqian Guan, and Prof. Elizabeth Langmaid  
Distinguished Service Professor, Department of International Trade and Transport and Graduate Department of Business and Transportation, State University of New York Maritime College, United States of America.
- 09:20 | **Hydrodynamic Analysis of Ship Maneuverability at Ports Using CFD.**  
**Dr. Tahsin Tezdogan**, Dr. Daejeong Kim and Prof. Atilla Incecik  
Associate Professor in Maritime Engineering, Maritime Engineering Research Group  
Department of Civil, Maritime, and Environmental Engineering, University of Southampton,  
United Kingdom.
- 09:40 | Siflow21. Predictive Simulation of Navigation Channels And Port Infrastructure Capacity With AIS  
Data Assessment  
**Mr. Raul Redondo**, Mrs. Carmen Ayuso and Mr. José Ramón Iribarren Alonso.  
Director of the Manoeuvring and Nautical Studies Area, Siport21, Spain..
- 10:00 | An Analytic Hierarchy Process-Based Survey To Investigate The Impact Of Terminals' Service Attributes On  
Attracting Shipping Lines  
**Eng. Aly Elrefaei**, Dr. Ahmed Idris and Dr. Ahmed Kamel  
Engineering Instructor, EFK, Alexandria AASTMT, Egypt.
- 10:20 | The Outcome of Implementing Structured SOFTES Model as a Post-Simulation Debriefing Strategy Among  
Marine Trainees  
**Dr. Capt. Ashraf Elsaved**  
Marine simulator instructor, Integrated simulator complex, Arab Academy for Science, Technology and Maritime  
Transport.
- 10:40 | Ship Scrapping Industry: A Literature Survey  
**Dr Walid Bahgat and Dr Ahmad Moussa**  
Second Lecturer, Institute of Maritime Upgrading Studies, AASTMT.
- 11:00 | **Session Discussion**
- 11:10 | **Coffee Break**

# Session 4

## Future-Proof Infrastructure for improving Port-City Integration

### Session Chair

Prof. Roberto Revetria

Head, Student Orientation Committee, University of Genoa, Italy

- 11:30 | Dealing with Uncertainty for a Resilient Navigation Infrastructure  
**Eng. Francisco Esteban Lefler**  
President, The World Association for Waterborne Transport Infrastructure (PIANC), Brussels, Belgium
- 11:50 | An Empirical Research on Connecting Port and City Infrastructure and its Implications for the Economy – Case Study: Black Sea Ports  
**Dr. Stefan-Alexandru Catana** and Eng. Andreea Barbu  
Assistant Professor, Faculty of Business and Administration, University of Bucharest, Romania.
- 12:10 | PIANC Working Group 219 – Joint research by PIANC and IWI to determine Guidelines for inland waterways infrastructures to facilitate tourism – activities, and proceedings.  
**Mr. Rudy Van der Ween**  
President of Inland Waterways International, Belgium.
- 12:30 | Future Proof Infrastructure for Port-City: Case Study for the Sustainability of Suez Canal Entrance Groins Against Future Extreme Wave Conditions  
**Eng. Mohamed Abouelnasr**  
Coastal Engineer (NEOM), M.Eng Candidate, PMI-PMP, RegPM™ CPPP, SFC.
- 13:10 | **Session Discussion**
- 13:20 | **Break**

# Session 5

## Smart Technologies and Innovation

### Towards Agile Supply Chains

Session Chair

**Mr. Jordi Torrent**

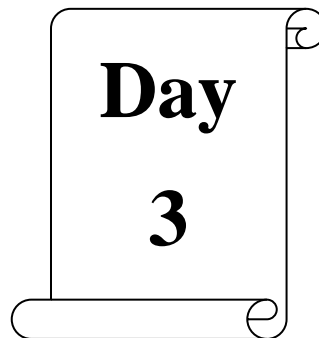
**MEDPorts Secretary General, Barcelona, Spain**

- 13:40** | Innovation, Digitalisation and Port Competitiveness  
**Eng. Miguel Garin Alemany**  
Director of International Development, ValenciaPort Foundation, Spain.
- 14:00** | Port authority digitalization: what and why”  
**Mr. Carles Rua**  
Head of Innovation, Port of Barcelona, Spain.
- 14:20** | A Study of the Usage of Unmanned Aerial Vehicles (UAVs) in Salvage Operations  
**Capt. Abdelrahman Abdelhadi, Hassan Elghazouly, Dr. Ahmed Ismail and Eman Elkashat**
- 14:40** | Promoting Agile Supply Chain Management in The Egyptian Agricultural Food Sector: Issues And Guidelines  
**Ms. Engy Bayoumi, Dr. Sara Elgazzar and Dr Osman Bayoumi**  
Teaching Assistant, College of International Transport and Logistics, AASTMT.
- 15:00** | Foundations for the sustainability of the LNG supply chain in Egypt and the logistics services supporting it  
**Dr. Heba Ahmed Elbaghdady and Dr. Omar Mostafa Mohamed**  
Lecturer, Department of Transport Logistics Management, College of International Transport and Logistics, AASTMT.
- 15:20** | **Session Discussion**
- 15:30** | **Lunch**

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**Tuesday, 14<sup>th</sup> March 2023**



# Session 6

## Green Transition and Renewable Energy

### Session Chair

**Prof. Boyan Rosi**

**Former Dean, Faculty of Logistics, University of Maribor, Slovenia**

- 09:00** | Modeling and simulation comparison of conventional and innovative transport for CNG  
**Dr. Emanuele Adorni, Dr. Anastasiia Rozhok, Dr. Lorenzo Damiani and Prof. Roberto Revetria**  
University of Genoa, Italy.
- 09:20** | **Environmental Impact of Maritime Logistics Using Satellite Data**  
**Dr Nikitas Nikitakos**, Dr Dimitra Kitsiou, Dr. Marina Banela, Dr. Anastasia Patera and Dr. Afrokomi-Afroula Stefanakou  
Professor, Department of Shipping Trade and Transport, University of the Aegean, Chios, Greece.
- 09:40** | Decarbonization of Maritime Transport in the Mediterranean. A Vision from the Ports  
**Mr. Jordi Torrent**  
MEDPorts Secretary General, Barcelona, Spain.
- 10:00** | A Cost-Benefit Analysis of the Use of Ammonia and Hydrogen as Marine Fuels  
**Ms. Anastasia Christodolou**  
Research Associate, Copenhagen Business School, Denmark.
- 10:20** | Alternatives Fuels for the Maritime Sector. Green Hydrogene.  
**Mr. Luis Núñez Vera**  
European Affairs Manager, General Management, Algeciras Bay Port Authority, Spain.
- 10:40** | **Session Discussion**
- 10:50** | **Break**

# Session 7

## Innovative Strategies for Enhancing Port Competitiveness

Session Chair

**Dr. Babak Banijamali**

**Vice-Chairman of Maritime Navigation Commission (MarCom)  
World Association for Waterborne Transport Infrastructure,  
PIANC**

- 11:00** | An Overview of Applying Lean Principles to Shipbuilding  
**Rear Admiral Mahmoud Hosny, Dr. Ibrahim Seediek and Dr. Mohamed Elgohary**
- 11:20** | Mapping Forging Industry Manufacturing Optimization Approaches to Port Operations  
Prof. Nik Knez, **Prof. Tomaž Kramberger** and Prof. Bojan Rupnik  
Vice Dean, Faculty of Logistics, University of Maribor, Slovenia.
- 11:40** | Resilience Strategies in Ports and Maritime Transport in the Mediterranean Sea – Priority Areas for Policy Action  
**Eng. Francesc Carbonell**  
Head, Transport and Development Sector, Union for the Mediterranean, Spain.
- 12:00** | Resilience Strategies as a Parameter of Competitiveness in Maritime Transport  
**Dr. George Vaggelas**  
Partner at “Ports and Shipping Advisory”  
Associate Professor, Department of Shipping, Trade & Transport, University of the Aegean, Greece.
- 12:20** | Use of the Geospatial Technologies and its Implications in the Maritime Transport and Logistics  
Dr. Cezar Scarlat and Dr. Nistor Andrei, and **Dr. Ioanid Alexandra**  
Lecturer, PhD, University Politehnica of Bucharest, Romania.
- 12:40** | **Session Discussion**
- 12:50** | **Coffee Break**

# Session 8

## Modern Risk Management Strategies

### Session Chair

**Dr. Mohi El Din Mohamed El Sayeh**  
Dean, College of Maritime Transport and Technology

- 13:10** | Key Challenges for the Sustainable Development of Ports and ongoing work by IAPH  
**Dr. Antonis Michail**  
Technical Coordinator IAPH and WSP, International Association of Ports and Harbors, Belgium.
- 13:30** | Risk Management in a Logistics Company  
**Prof. Dana Corina Deselnicu**, Eng. Andreea Barbu and Dr. Sandra Hamy Haddad  
University of Politehnica, Romania.
- 13:50** | Digital Twin-Based Unmanned Air Traffic Management for Emergency Response  
**Prof. Bojan Rupnik**, **Prof. Tomaž Kramberger** and **Prof. Mateja Čuček**  
University of Maribor, Slovenia.
- 14:10** | Securing the Maritime Industry  
**Dr. Mohamed Abdel Fattah**  
Senior Security Architect, Cybersecurity expert, Fortinet.
- 14:30** | **Session Discussion**
- 14:40** | **Break**