

The International Maritime Transport & Logistics Conference

## MARLOG 12

Innovative Technologies for Ports and Logistics  
Towards a Sustainable Resilient Future

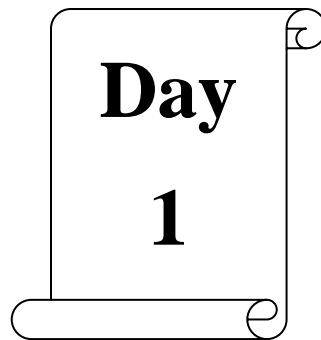
# Program

12 – 14 March 2023

The International Maritime Transport & Logistics Conference

## **MARLOG 12**

Innovative Technologies for Ports and Logistics  
Towards a Sustainable Resilient Future



**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), UAE.

**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 – A Macro Perspective

**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

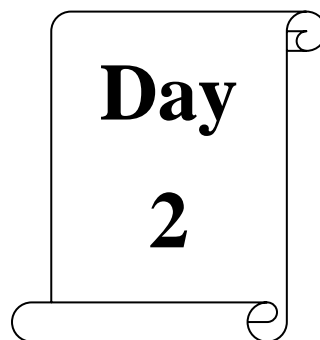
Kuwait Oil Tanker Company, Kuwait

- 14:00** Capacity Building for Maritime Industry Towards Zero Emissions - AASTMT Vision Post COP27  
**Dr. Gamal Ghalwash**  
AASTMT President's Marine Consultant, Alexandria, Egypt.
- 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, Dr. Andreea Barbu, Prof. Dana Deselnicu and Dr. Sandra Haddad**  
Professor, University POLITEHNICA of Bucharest, Romania.
- 14:40** Power skills: The Key to our Professional Future  
**Mrs. Ana Rumbau**  
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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**Monday, 13<sup>th</sup> March 2023**

# 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**  
Civil Engineer, a Researcher at Maritime Research and Consultation Center (MRCC),  
Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.
- 10:20 | The Outcome of Implementing Structured SOFTES Model as a Post-Simulation Debriefing Strategy Among Marine Trainees  
**Dr. Capt. Ashraf Elsayed**  
Marine simulator instructor, Integrated simulator complex, Arab Academy for Science, Technology, and Maritime Transport, Egypt.
- 10:40 | Review on Ship Recycling Industry  
**Dr. Walid Bahgat and Dr. Ahmad Moussa**  
Second Lecturer, Institute of Maritime Upgrading Studies, AASTMT, Egypt.
- 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 Dr. 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, Egypt.
- 12:50** | Implementing Sustainability in the International Airport of Sharm El-Shaikh  
**Mr. Mohamed Genina, Dr. Khaled El-Sakty and Dr. Ahmed Hussein Ali**  
Operation Specialist at the Ministry of Civil Aviation, Egypt.
- 13:10** | **Session Discussion**
- 13:20** | **Break**

# Session 5

Smart Technologies and Innovation

Towards Agile Supply Chains

Session Chair

Mr. Jordi Torrent

MEDPorts Association Secretary General, Barcelona, Spain

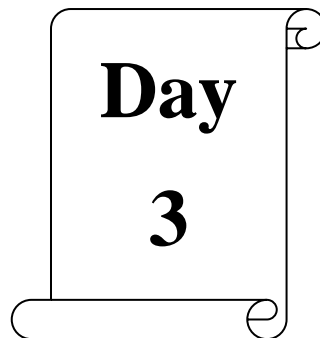
- 13:40** | Innovation, Digitalization, and Port Competitiveness  
**Eng. Miguel Garin Alemany**  
Director of International Development, ValenciaPort Foundation, Spain.
- 14:00** | Port Authority Digitalization: what and why”  
**Mr. Carles Rua**  
Head of Innovation, Port of Barcelona, Spain.
- 14:20** | A Study of the Usage of Unmanned Aerial Vehicles (UAVs) in Salvage Operations  
**Capt. Abdelrahman Abdelhadi, Dr. Hassan Elghazouly, Dr. Ahmed Ismail and Eng. Eman Elkashat**  
Marine Chief officer, Abu Dhabi National Oil Company (ADNOC).
- 14:40** | Promoting Agile Supply Chain Management in The Egyptian Agricultural Food Sector: Issues and Guidelines  
**Ms. Engy Bayoumi, Dr. Sara Elgazzar, and D.r 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 Mr. Omar Mostafa Mohamed**  
Lecturer, Department of Transport Logistics Management, College of International Transport and Logistics, AASTMT, Egypt.
- 15:20** | Obtaining Green Warehouses from Converting the Kinetic Energy of Trucks into Piezoelectricity: A Suggested Model  
**Ms. Bassma Sameer, Dr. Islam Hanafi, and Dr. Sahar Elbarky**  
College of International Transport and Logistics, Arab Academy for Science, Technology and Maritime Transport (AASTMT), Egypt.
- 15:40** | **Session Discussion**
- 15:50** | **Lunch**



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

# Session 6

## Green Transition and Renewable Energy

### Session Chair

Prof. Bojan 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**  
Professor, Department of Mechanical Engineering, University of Genoa, Italy.
- 09:20** | Environmental Impact of Maritime Logistics Using Satellite Data  
**Prof. 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, Greece.
- 09:40** | Decarbonization of Maritime Transport in the Mediterranean. A Vision from the Ports  
**Mr. Jordi Torrent**  
MEDPorts Association Secretary General, Barcelona, Spain.
- 10:00** | A Cost-Benefit Analysis of the Use of Ammonia and Hydrogen as Marine Fuels  
**Dr. Anastasia Christodolou, Dr. Tuan Dong, Dr. Alessandro Schönborn, Dr. Aykut I. Ölçer and Dr. Dimitrios Dalaklis**  
Research Associate, Copenhagen Business School, Denmark.
- 10:20** | Alternatives Fuels for the Maritime Sector. Green Hydrogen.  
**Eng. Luis Núñez Vera**  
Head of European Affairs, 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**  
Director of Maritime Technology Studies Institute, Alexandria, Egypt.
- 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 WPSP, International Association of Ports and Harbors, Belgium.
- 13:30 | Risk Management in a Logistics Company  
**Prof. Dana Corina Deselnicu, Dr. Andreea Barbu and Dr. Sandra Hamy Haddad**  
Director of the Doctoral School of Entrepreneurship, Business Engineering and Management,  
University Politehnica of Bucharest, 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**