

The International Maritime Transport & Logistics Conference

MARLOG 12

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

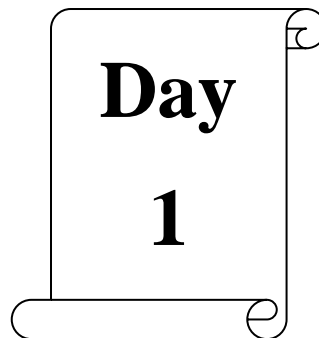
Program

12 – 14 March 2023

The International Maritime Transport & Logistics Conference

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Innovative Technologies for Ports and Logistics Towards a Sustainable Resilient Future



Sunday, 12th March 2023

*All timings mentioned in the agenda are in GMT+2 – Cairo time

Opening Session

10:00 Opening Address

- 🚢 **Prof. Akram Soliman Elselmy**
Head of the Conference Organizing Committee
- 🚢 **Prof. Ismail Abdel Ghafar Ismail Farag**
Conference Chairman
- 🚢 **Prof. Takeshi Nakazawa**
Executive Director, International Association of Maritime Universities (IAMU), Japan
- 🚢 **Dr. Bahgat Abu El Nasr,**
Head of Transport & Tourism Administration, League of Arab States
- 🚢 **H. E. Admiral Osama Rabie**
Chairman and Managing Director, Suez Canal Authority
- 🚢 **H. E. Major-general: Mohamed Taher Elsherief**
Alexandria Governor
- 🚢 **H. E. Eng. Hisham Abu Zeid**
Minister of Transport, Sudan
- 🚢 **H.E. Lieutenant General Kamel Al-Wazir**
Minister of Transport

- 10:45 ➤ Recognition of **Instrumental Figures**
- 11:00 ➤ Signing a memorandum of understandings
- 11:15 ➤ Opening of the International Maritime Exhibition
- 12:00 ➤ Break

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

12:30 Challenges and Changing Dynamics - Energy & Maritime Industry.

H.E. Mr. Khamis Juma Buamim

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

12:50 Supply Chain Trends

Mr. Kristof Waterschoot

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

13:10 Resilience of Maritime Transport Chains – A Macro Perspective

Prof. 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

13:30 Resilience of Supply Chains.

Dr. Philippe Guillaumet

European Projects Manager, Port of Marseille, France.

13:50 Session Discussion

14:00 Coffee Break

Session 2

Requalification of Human Resources Capabilities of Port and Logistics Community

Session Chair

Capt. Anwar Buftain

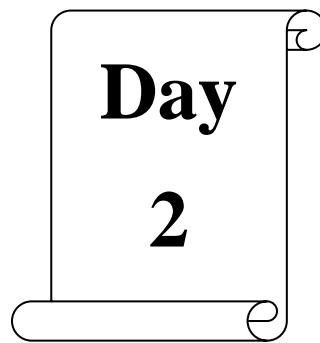
**Team Leader, Marine Affairs & Risk Assessment,
Fleet Operations Group
Kuwait Oil Tanker Company, Kuwait**

- 14:20** Capacity Building for Maritime Industry Towards Zero Emissions - AASTMT Vision Post COP27
Dr. Gamal Ghalwash
AASTMT President's Consultant for International Maritime Relations, Alexandria, Egypt.
- 14:40** 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.
- 15:00** Power skills: The Key to our Professional Future
Mrs. Ana Rumbeu
Training Director, ValenciaPort Foundation, Spain.
- 15:20** 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.
- 15:40** Chevron Egypt Lubricants Present and Future
Eng. Sherine Soliman and Eng. Beshoy Shenoda
Inland Marine Channel Manager, International Fuels and Lubricants (IF&L)
Chevron Egypt S. A. E.
- 16:00** **Session Discussion**
- 16:10** **Lunch**

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Session 3

Optimization of Port Infrastructure and Operation

Session Chair

Prof. Amr Ali Hassan

Assistant of AASTMT President for Engineering Education

- 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, 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, Alexandria, 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

Full Professor, Department of Mechanical, Energy, Management and Transport Engineering, 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 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
- 12:50 **Session Discussion**
- 13:00 **Break**

Session 5

Smart Technologies and Innovation

Towards Agile Supply Chains

Session Chair

Mr. Jordi Torrent

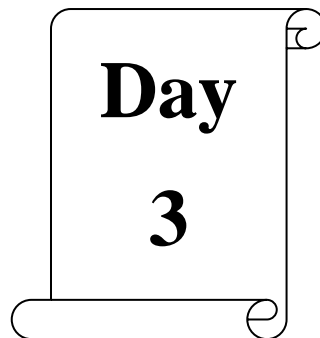
MEDPorts Association Secretary General, Barcelona, Spain

- 13:10** | Innovation, Digitalization, and Port Competitiveness
Eng. Miguel Garin Alemany
Director of International Development, ValenciaPort Foundation, Spain.
- 13:30** | Port Authority Digitalization: what and why”
Mr. Carles Rua
Head of Innovation, Port of Barcelona, Spain.
- 13:50** | 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).
- 14:10** | 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.
- 14:30** | Modeling and Simulation Comparison of Conventional and Innovative Transport for Natural Gas
Eng. Emanuele Adorni, Eng. Anastasiia Rozhok, PhD Eng. Lorenzo Damiani and Prof. Roberto Revetria
Professor, Department of Mechanical Engineering, University of Genoa, Italy.
- 14:50** | 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.
- 15:10** | **Session Discussion**
- 15:20** | **Lunch**

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Tuesday, 14th 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** Decarbonization of Maritime Transport in the Mediterranean. A Vision from the Ports
Mr. Jordi Torrent
MEDPorts Association Secretary General, Barcelona, Spain.
- 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** Alternatives Fuels for the Maritime Sector. Green Hydrogen.
Eng. Luis Núñez Vera
Head of European Affairs, Algeciras Bay Port Authority, 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** Ecologistics - Good Practices on the Example of Poland
Dr. Karolina Lis and Dr. M. Pawęska
Vice-Dean at The International University of Logistics and Transport in Wroclaw, Poland.
- 10:40** 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.
- 11:00** **Session Discussion**
- 11:10** **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**

Session Panelist

Prof. Nikitas Nikitakos

**Professor, Department of Shipping Trade and Transport,
University of the Aegean, Greece.**

- 11:30** | 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.
- 11:50** | 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.
- 12:10** | Resilience Strategies in Ports and Maritime Transport in the Mediterranean Sea – Priority Areas for Policy Action
Eng. Francisc Carbonell
Head, Transport and Development Sector, Union for the Mediterranean, Spain.
- 12:30** | 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.
- 12:50** | Use of the Geospatial Technologies and its Implications in the Maritime Transport and Logistics
Dr. Cezar Scarlat, Dr. Alexandra Ioanid, and Dr. Nistor Andrei
Lecturer, PhD, University Politehnica of Bucharest, Romania.
- 13:10** | **Session Discussion**
- 13:20** | **Coffee Break**

Session 8

Modern Risk Management Strategies

Session Chair

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

- 13:30 | 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.
- 13:50 | 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.
- 14:10 | Digital Twin-Based Unmanned Air Traffic Management for Emergency Response
Prof. Bojan Rupnik, Prof. Tomaž Kramberger and Prof. Mateja Čuček
University of Maribor, Slovenia.
- 14:30 | Securing the Maritime Industry
Dr. Mohamed Abdel Fattah
Senior Security Architect, Cybersecurity Expert, Fortinet.
- 14:50 | **Session Discussion**
- 15:00 | **Break**

Closing Session

Chairman

Prof. Ismail Abdel Ghafar Ismail Farag

Conference Chairman

- 15:10 Keynote Speech:**
Prof. Ismail Abdel Ghafar Ismail Farag
- 15:20 Proposed Recommendations**
Prof. Yousry El Gamal
Head, Conference Technical Committee
- 15:30 Best Paper Award**
- 15:40 Recognition of Speakers, Keynote Speakers, and Sessions Chair**
- 15:50 Lunch**

See you in MARLOG 13