



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

### **MARLOG 9**

**Impacts of the Fourth Industrial Revolution on Port-City Integration**

**“World Port Sustainability Program Aspects”**

# **Program**

29 – 31 March 2020

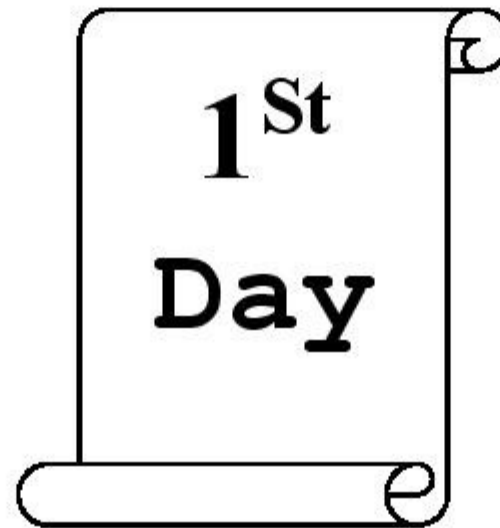


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**Sunday, 29<sup>th</sup> March 2020**



**08:00 Registration**

# Opening Session

**09:00 Opening Address**

**Prof. Akram Soliman Elselmy**

Head, Organizing Committee  
Dean, Port Training Institute.

**Prof. Ismail Abdel-Ghafar Ismail Farag**

Conference Chairman  
President, Arab Academy for Science, Technology and Maritime Transport.

**Prof. Takeshi Nakazawa**

Professor, Executive Director, International Association of Maritime Universities "IAMU",  
Japan. Chairman, the Suez Canal Economic Zone and the Suez Canal Authority.

**H.E. Lieutenant General Kamel Al-Wazir**

Minister of Transport.

- 10:00** ➤ Recognition of Instrumental Figures.
- 10:30** ➤ Signing numbers of memorandum of understanding between Arab Academy for Science, Technology and Maritime Transport and International Organizations.
- 11:00** ➤ Opening of the Exhibition of Marine Equipment & Services.
- 12:00** ➤ Tea Break



# Session 1

- 12:30** Dynamic Factors and ARIMAX modelling:  
A comparative study for the case of Forecasting in Ports  
**Prof. Tomaž Kramberger**, Abolfazl Keshavarzsalehb, Marko Intihard and Dejan Dragana  
Vice Dean for Scientific Research, Faculty of Logistics, University of Maribor, Slovenia.
- 12:50** Fourth Industrial Revolution and Seaports Impact on Economic Growth (MENA REGION)  
**Dr. Rasha Fouad**  
Department of Foreign Trade, College of International Transport and Logistics,  
Arab Academy for Science, Technology and Maritime Transport, Cairo, Egypt.
- 13:10** Cisco for System Solutions
- 13:30** **Session Discussion**
- 13:50** **Break**

# Session 2

- 14:10** The Challenge for The Port-Cities 2030 – A View from PIANC  
**Mr. Francisco Esteban Lefler**  
President, the World Association for Waterborne Transport Infrastructure (PIANC), Brussels, Belgium.
- 14:30** Unleash the power of together!  
**Dr. Siegfried Segers**  
Community Builder, Product Owner Containers at NXTPORT, Belgium.
- 14:50** **Session Discussion**
- 15:10** **Lunch**

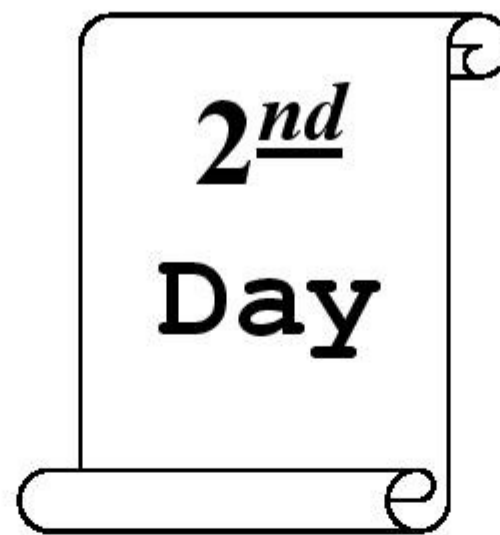


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# Session 3

- 09:00** Physical and Technological Infrastructure and its Role in the Sustainability of Marine Ports  
**Dr. Mohamed Ali Abdelwahed**  
Procurement Manager at SCZone, PhD researcher, Ain Shams University, Egypt.
- 09:20** The Potential Of Additive Manufacturing to Transform the Way Spare Parts Reach the Vessels At The Ports  
**Nikitas Nikitakos**, Razali Yaacob, and Evanthia Kostidi  
Department of Shipping Trade and Transport, University of the Aegean, Chios, Greece,  
School of Port, Logistics and Management, Netherlands Maritime Institute of Technology (NMIT), Malaysia.
- 09:40** A Review of Energy Efficiency Implementation Barriers in the Maritime Shipping Sector  
**Dr. Mohamed Elsayed Elbawab**, and Mr. Fawzy F. Dekinesh  
Lecturer, Engineering Department Sea Training Institute, AASTMT.
- 10:00** **Session Discussion**
- 10:20** **Tea Break**

# Session 4

- 10:40** The changing port Labour Environment in the Era of Port Automation and Digitalization  
**Dr. George K. Vaggelas**  
Partner at “Ports and Shipping Advisory”  
Associate Professor, Department of Shipping, Trade & Transport, University of the Aegean, Greece.
- 11:00** Improving The Human Resource in Maritime Industry  
**Eng. Mirona Ana Maria Popescue**  
Department of Entrepreneurship and Management, University POLITEHNICA of Bucharest,  
Bucharest, Romania.
- 11:20** RE-Engineering Arab World (RAW) - A study for Promoting Maritime Engineering in Schools  
**Dr. Ahmed Abdelwahab Swidan**, Cameron Harper, Simon Von-Limont, and Warren Smith  
Associate Professor, AASTMT.
- 11:40** **Session Discussion**
- 12:00** **Break**



# Session 5

- 12:20** Port-City Integration Towards Sustainable Port-City Ecosystem Considering Industrial Revolution 4.0:  
A Case Study of Iskandar Malaysia  
**Dr. Mohammadehsan Torabizadeh**, Mr. Mohd Zarir Yussof, Capt. Razali Yaacob,  
and Dr. Tomingan Kamaron  
Lecturer, the Netherlands Maritime Institute of Technology (NMIT) Iskandar, Malaysia.
- 12:40** The Impact of Mega Expansion Projects on Damietta Container Terminal Competitiveness in The East  
Mediterranean Region  
**Dr. Ahmed E. Kamel**  
Doctoral of Business Administration, Ain Shams University  
Head of Research and Marketing at Damietta Container Handlin Co, Damietta, Egypt.
- 13:00** Talent Management in Industrial Revolution 4.0 Era: A Case of Port of Tanjung Pelepas, Johor, Malaysia  
**Dr. Tomingan Kamaron**, Capt. Razali Yaacob and Dr. Mohammadehsan Torabizadeh  
School of Port, Logistics and Management,  
Netherlands Maritime Institute of Technology (NMIT), Malaysia.
- 13:20** Evaluating the competitiveness of North African container ports:  
An empirical study on the Egyptian and Libyan container ports using FAHP  
**Dr. Ahmed Ismail, Dr. Mohi Eldin Elsayeh, Cap. Abdulla Wanis**  
PhD Candidate, Arab Academy for Science, Technology & Maritime Transport, Libya.
- 13:40** **Session Discussion**
- 14:00** **Lunch**

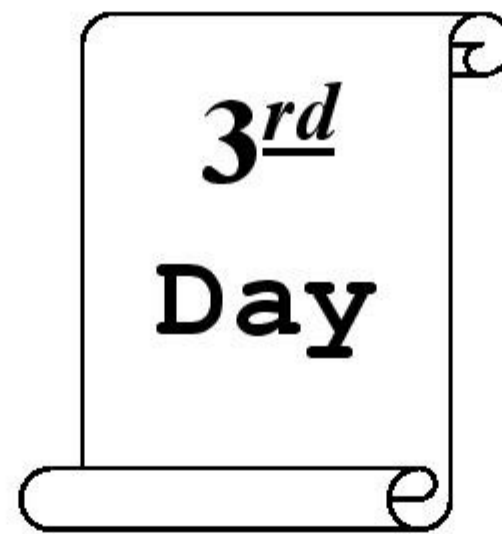


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Tuesday, 31 March 2020





# Session 6

- 09:00** Impacts of the fourth industrial revolution on port - city integration  
**Adm. Mahmoud Hatem AEI-Kady**  
Chairman, the Arab Federation of Chambers of Shipping, Egypt
- 09:20** Digitalization and Smart X: A Port City Solution  
**Dr. Mohammed Mahmoud**  
President Assistant for Technology Development, AASTMT.
- 09:40** Towards Measurement of Situation Awareness in Virtual Reality Simulator  
**Ms. Sunniva Veie and Dr. Salman Nazir**  
Training and Assessment Research Group (TARG) Leader, Department of Maritime Operations,  
Faculty of Technology, Natural Sciences and Maritime Sciences,  
University of South-eastern Norway, Norway
- 10:00** **Session Discussion**
- 10:20** **Break**



# Session 7

- 10:40** Security Challenges in Shipboard Cyber Physical Systems  
**Dr. Boris Svilicic**  
Full Professor, Faculty of Maritime Studies, University of Rijeka, Croatia.
- 11:00** Trends of Smart Ports Technology Companies: An Online Presence Perspective  
**Ms. Ramona A. Neghină**, Dr. Valentin A. Mănescu, Dr. Gheorghe Militaru, and Prof. Dana C. Deselnicu.  
Project Manager, Webcome For Online Business Solutions, Romania.
- 11:20** Demonstrating the Cyber Vulnerabilities of Significant Maritime Technologies to The Port Facilities and on Board of Vessels  
**Mr. Karem Mohamed Abo Eldahab**  
The Graduate School of Business (GSB),  
The Arab Academy for Science, Technology and Maritime Transport, Cairo, Egypt.
- 11:40** Reviewing Paradoxical Dimensions of Supply Chain Integration and Sustainability in The Port Industry  
**Dr. Khaled Hussein Nasreldin** and Dr. Dong-Wook Song  
Lecturer Assistant, Supply Chain Management Department, AASTMT.  
PHD Candidate, World Maritime University, Malmö, Sweden.
- 12:00** **Session Discussion**
- 12:20** **Tea Break**



# Session 8

**12:40** Resilience and adaptation to climate change impacts for ports and maritime transport: An overview

**Eng. Francesc Carbonell**

Head of Sector, Transport and Urban Development, Union for the Mediterranean, Spain.

**13:00** The Use of Prescriptive Analytics in Port Operations

**Dr. Nicoleta Tipi**

Huddersfield Business School, Department of Logistics, Marketing, Hospitality and Analytics,  
The University of Huddersfield, Huddersfield, UK.

**13:20** An Overview of the Port Community System from Romania

**Eng. Andreea Barb**, Dr. Gheorghe Militaru and Prof. Dana Corina Desehnicu

Assistant Professor, University POLITEHNICA of Bucharest, Romania.

**13:40** **Session Discussion**

**14:00** **Break**



# Closing Session

## Chairman

**Prof. Ismail Abd El-Ghafar Ismail Farag**

**President, AASTMT  
Conference Chairman**

**14:00 Keynote Speech:**

**Prof. Ismail Abd El-Ghafar Ismail Farag**

**14:15 Proposed Recommendations**

**Prof. Ehab Mahmoud El Kassas**

**Vice Conference Chairman  
Dean, MRCC**

**14:30 Recognition of Speakers and Sessions' Chairmen**

**15:00 Lunch Invitation by**

**H.E Prof. Ismail Abdel Ghafar Ismail Farag  
President**