



The International Maritime Transport
and Logistics Conference Booklet

Towards a
SUSTAINABLE **BLUE**
ECONOMY



MARLOG
Booklet



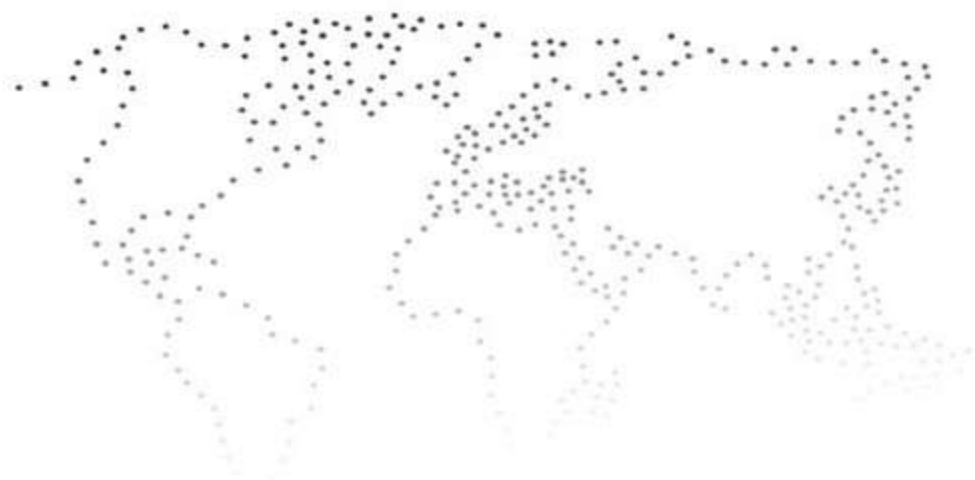
Arab Academy
for Science Technology & Maritime Transport

20 - 22 March, 2022
Alexandria - EGYPT



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Prof. Ismail Abd El-Ghafar Ismail Farag

Conference Chairman, AASTMT, President

The word from the President of the Academy
In the name of Allah the Most Gracious, the Most Merciful

As the president of the Arab Academy for Science, Technology and Maritime Transport and Chairman of the International Maritime Transport and Logistics Conference "MARLOG", I would like to start by expressing my sincere greetings and thanks to our distinguished participants.

The Arab Academy for Science, Technology and Maritime Transport, since its establishment in 1972, played and will continue to play a vital role not only as a specialized organization in the field of education and training, but also as an Arab house of expertise that represents the technical arm of the Arab league.

This year, AASTMT is celebrating the Golden Jubilee, as for over 50 years, AASTMT achieved remarkable progress and occupied a leading worldwide rank among educational universities and institutions. During these past 50 years, AASTMT saved no effort to achieve its goals by overcoming obstacles and challenges faced via measured progress. AASTMT managed to outstand through running comprehensive educational and training programs, maintaining international cooperation, establishing new and modern campuses, hiring qualified staff members, making use of resources, establishing joint partnerships, hosting international conferences and much more.

AASTMT, as the organizer of the International Maritime Transport and Logistics Conference, since it was first held in 2011, is keen on making this annual prominent event a great opportunity for sharing the latest updates and coordinating efforts in various fields such as Maritime Transport, Logistics, Engineering, Environment, and Economy.

Finally, I would like to express my deepest appreciation and gratitude to all renowned figures attending and participating in this unique event. I would also like to encourage you all to make the best out of this experience and be an active part at the MARLOG 11 conference, as your participation will contribute greatly to the success of this conference.

Prof. Ismail Abdel Ghafar Ismail Farag





Prof. Akram Soliman Elselmy

Head of the Organizing Committee
Dean, collage of Engineering & Technology, AASTMT

On behalf of the MARLOG conference organizing committee, I am honored and delighted to welcome our esteemed guests to the International Maritime Transport and Logistics Conference (MARLOG 11) to continue our journey of success with the 11th edition of the conference.

MARLOG conference, through its past ten editions, managed to become not just an annual conference but a remarkable forum that is eagerly awaited by many. It embraces an outstanding technical program, active social program, workshops, and one joint course as well. This profound reputation managed to attract distinguished maritime and engineering experts in representing famous port authorities, prestigious universities, and well-known organizations from all around the world together under one roof each year.

MARLOG 11 represents a strong comeback after a few hard years facing the pandemic, although MARLOG managed to keep going through the past two years, this year is considered the beginning of the pandemic end, and MARLOG is just the start.

MARLOG 11 sheds light this year on Sustainable Blue Economy, which is a recent and demanding topic. The conference's important themes and topics are discussed through a rich technical program including eight sessions, more than 25 research papers, and 15 esteemed Keynote speakers from more than 14 countries, who will provide us with the latest updates and knowledge, expected challenges and future opportunities related to this trending topic through their valuable research papers, presentations, and interactive discussions.

I would like to end this welcoming note with a round of thanks to everyone who has made MARLOG 11 possible. I would like to start by thanking the conference chairman and the president of the AASTMT Prof. Ismail Abdel Ghafar Ismail Farag, and MARLOG 11 Sponsors, Partners, and Co-organizers. I would also like to extend my thanks to the organizing committee, the technical committee, reviewers, and our team of organizers whose hard work, support and dedication were the factors behind holding such a unique event.

Thank you all for being here. We value your presence and I wish you all enjoy the conference.

Prof. Akram Soliman Elselmy



Keynote Speakers



Mr. Rudy Van der Ween
President of Inland Waterways International. Assistant manager of the Ghent Tourist Office, Belgium.



Dr. Philippe Guillaumet
Secretary General
MEDPorts Association
France.



Mr. Nico Suys
Head Of Business Development
For Port Of Antwerp International
For The Region North
Africa, Belgium.



Mr. Francisco Esteban Lefler
President, The World Association for Waterborne Transport Infrastructure (PIANC), Brussels Belgium.



Mr. Francesc Carbonell
Head, Transport and Development Sector,
Union for the Mediterranean, Spain.



Mr. CHEN Ji
Senior Manager, Technical safety Supervision Department,
Safety Supervision Division of
CHINA COSCO SHIPPING CORPORATION LIMITED



Mr. Ahmed Riad
Resilience and DRR Expert



Mr. Alessandro Panaro
Head of Service, Maritime & Mediterranean Economy, Italy



Prof. PENG CHUANSHENG
Professor of China Waterborne Transport Research Institute, & Chief Technology Official in Environmental Protection & Energy Saving area.



Dr. WANG Renjie
Chief Engineer
Department of Atmosphere & Low carbon, Division of Environment & Resources Research, TPRI (Transport Planning and Research Institute)



Dr. Thibaut Van Zwijnsvoorde
PhD, Civil Engineer, Nautical Researcher at Flanders Hydraulics Research.



Dr. Burkhard Lemper
President of Global Shipping Think Tank Alliance, Shanghai, China.



Conference Agenda

1st Day Sunday, 20th March 2022

08:00 Registration

Opening Session

10:00 Opening Address

Prof. Akram Soliman ElSelmy

Head of the Conference Organizing committee,
Dean, College of Engineering and Technology, AASTMT

Prof. Ismail Abd El-Ghafar Ismail Farag

President, AASTMT - Conference Chairman

H.E Dr. Cleopatra Doumbia-Henry

President, the World Maritime University, Malmo, Sweden.

Dr. Dina Al-Dhafer

Head of Transport & Tourism, the League of Arab States

H. E. Admiral Osama Rabie

Chairman and Managing Director, Suez Canal Authority

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

11:40 Tea Break



Conference Agenda

1st Day Sunday, 20th March 2022

Session 1

"Blue Economy Management and Synergies"

Session Honorary Panelist

H. E. Eng. Hessa Ahmed Hamdan Almalek

Advisor to the Minister for Maritime Transport Affairs,
Ministry of Energy & Infrastructure, UAE.

Session Chair

Capt. Anwar Buffain

Marine Expert, Kuwait.

- 12:00 PIANC Contribution to Blue Economy
[Mr. Francisco Esteban Lefler](#)
President, The World Association for Waterborne Transport Infrastructure (PIANC), Brussels, Belgium.
- 12:15 Mediterranean Ports for Blue Economy
[Dr. Philippe Guillaumet](#)
Secretary General, Medports Association, France.
- 12:30 Sustainable Travel and Tourists' Satisfaction. The Case of Constanta, Romania.
[Eng. Andreea Barbu](#), Prof. Dana Corina Deselnicu and Dr. Gheorghe Militaru
Assistant Professor, University POLITEHNICA of Bucharest, Romania.
- 12:45 Building a Sustainable Economy from a Ports' Perspective
[Mr Kim Larsen](#)
Vice president, Commercial and Business Development – Port Clusters, ADports, UAE
- 13:30 Session Discussion lead by the Honorary Panelist
13:30 Break



Conference Agenda

1st Day Sunday, 20th March 2022

Session 2

"Innovative Investments in Blue Economy"

Session Honorary Panelist

Session Chair

Prof. Maja Fošner

Dean, Faculty of Logistics
University of Maribor, Slovenia

Session Panelist

Prof. Sara Elgazzar

Dean of College of International Transport
and Logistics, Alexandria, AASTMT

- 13:45 Fostering Sustainable Blue Economy Through Regional Cooperation and Networking between Educational and Training Infrastructure Relevant to the Marine and Maritime Professions and Aligned with Business Needs
[Eng. Francesc Carbonell](#)
Head, Transport and Development Sector, Union for the Mediterranean, Spain.
- 14:00 Smart Ship Controllers for Accessibility Optimization
[Dr. Thibaut Van Zwijnsvoorde](#)
Nautical Researcher at Flanders Hydraulics Research, Belgium.
- 14:15 Multicriteria Analysis of the Sustainability Performance of the Maritime Activity of Egypt and Romania
[Prof. Dana Corina Deselnicu](#), Eng. Andreea Barbu and Sandra Hamy Haddad
Associate Professor, Faculty of Entrepreneurship Business Management and Engineering (FAIMA),
University POLITEHNICA of Bucharest, Romania.
- 14:30 Hydrogen Economy – The Role of The Maritime Industry
[Dr. Burkhard Lemper](#)
President of Global Shipping Think Tank Alliance, Shanghai, China.
- 14:45 Session Discussion
15:00 Lunch



Conference Agenda

2nd Day Monday, 21th March 2022

Session 3

Blue economy: Port and Maritime Industry Resilience

Session Chair

Prof Bojan Rosi

Professor, Faculty of Logistics
University of Maribor, Slovenia

- 09:00 Arab Region Ports: Transforming from Crisis Management to DRR and Resilience
[Mr. Ahmed Riad](#)
Resilience and DRR Expert, Board Member – Global Board of UNDRR Private Sector Alliance for Resilient Societies, UAE.
- 09:15 Container Terminals Collaboration:
The Case of National Container Terminals in Egypt.
[Dr. Ahmad Kamel](#)
Damietta Container and Cargo Handling Company, Egypt.
- 09:30 The Impact of Globalization on Mediterranean Container Terminals
[Dr. Gianfranco Fancello](#), Dr. Daniel Mark Vitiello and Dr. Patrizia Serra
Professor at the Department of Civil and Environmental Engineering and Architecture -Transportation Sector, University of Cagliari. General Manager of "Centre of Excellence in Transport" of the Sardinia Region, Italy.
- 09:45 Freight Rates, Congested Ports, Container Shortage: The New Economic and Maritime Tornado in the Mediterranean and The New Challenges
[Mr. Alessandro Panaro](#)
Head of Service, Maritime & Mediterranean Economy, Italy.
- 10:00 Cybersecurity in Blue Economy, An Urgent Call to Action
[Dr. Mohamed Abdel Fattah](#)
Senior Security Architect, Cybersecurity expert, Fortinet, Egypt.
- 10:15 Session Discussion
10:30 Break



Conference Agenda

2nd Day Monday, 21th March 2022

Session 4

Empowering Blue Economy: Insights and opportunities

Session Chair

Dr. Babak Banijamali

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

Session Panelist

Prof. Tomaž Kramberger

Vice Dean, Faculty of Logistics
University of Maribor, Slovenia

- 11:00 Activities of PIANC Working Group 219 – Guidelines for Inland Waterways Infrastructure to Facilitate Tourism
[Mr. Rudy Van Der Ween](#)
President of Inland Waterways International.
Assistant Manager of The Ghent Tourist Office, Belgium.
- 11:15 Investigating Factors Influencing the Purchasing Decisions of Low Emission Cars
[Dr. Matjaz Knez](#), Dr. Alaa Othman, Dr. Ahmed Dabees and Dr. Baher Rahma
Vice Dean for Economic Affairs, Faculty of Logistics, University of Maribor, Slovenia.
- 11:30 Insights into Logistics and Supply Chain Higher Education in The Middle East
[Dr. Matevz Obrecht](#), Dr. Zane Feodorova and Dr. Maja Rosi
Associate Professor, Faculty of Logistics, University of Maribor, Slovenia.
- 11:45 Sea-Based Economy: Review of Research Agenda Within the Blue Economy Concept
Dr Mohi Elsayeh, [Capt. Abdulla Wanis Tabet](#), Dr. Fatima Aljwifi and Dr. Ahmed Ismail Hafez
Phd Candidate, AASTMT, Libya
- 12:00 Session Discussion
12:15 Tea Break



Conference Agenda

2nd Day Monday, 21th March 2022

Session 5

**Industrial and Marine Engineering Innovations
to Promote Blue Economy**

Session Chair

Prof. Yasser El-Sonbaty

Vice President for Information
and Communications Technology
Professor of Computer Science at College of Computing
& Information Technology, AASTMT

- 12:45 Oil And Gas Exploration (Seismic Survey) Impact on Marine Environment and Maritime Activities: (A Brief Overview on the Red Sea in Egypt)
[Capt. Sherif Abdelrahman](#)
AASTMT, Egypt.
- 13:00 Using Novative UAVs to Support Maritime Emergency Operations
[Prof Roberto Revetria](#), Dr Rozhok Anastasiia and Dr Adorni Emanuele
Head, Mechanical and Engineering Department, University of Genoa, Italy.
- 13:15 Circularity of Bulky Waste: A Case Study of Krško in Slovenia
Dr Boštjan Vimpolšek, Dr Jože Leskovar and [Dr Andrej Lisec](#)
Vice Dean, Faculty of Logistics, University of Maribor, Slovenia.
- 13:30 ABB Solutions for Onshore Power Supply
[Eng. Mohamed Salem, Mr Karim Zaghloul and Mr. Amr Younis](#)
Head of Energy Distribution Solutions and Smart Buildings Sector, ABB Group,
Egypt.
- 13:45 Investigating the Effect of Terminals' Service Attributes on Attracting Shipping Lines: A Stated Choice Approach
[Eng Aly Elrefaei](#) and Dr Ahmed Idris
AASTMT, Egypt.
- 14:00 Session Discussion
14:30 Lunch



Conference Agenda

3rd Day Tuesday, 22nd March 2022

Session 6

"Smart Innovations for Blue Economy"

Session Chair

Prof. Yasser Gaber

Professor of Electrical Engineering
and Renewable Energy Technologies, AASTMT

- 09:00 Cyber-Physical Security for Ports' Infrastructure
[Prof. Iosif Progoulakis](#), [Prof. Nikitas Nikitakos](#), Dr. Dimitrios Dalaklis
and Capt. Razali Yaacob
Professor, Department of Shipping Trade and Transport, University of the
Aegean, Chios, Greece.
- 09:15 Port of Antwerp: A Pioneer Among Sustainable Ports
[Mr. Nico Suys](#)
Head of Business Development or Port of Antwerp International for the Region
North Africa, Port of Antwerp, Belgium.
- 09:30 Investigating Maritime Accidents that Involve Dangerous Goods Using Hierarchi-
cal Clustering
[Dr Patrizia Serra](#), Dr Gianfranco Fancello, Dr Marco Mandas, Dr Mariangela
Daga and Dr Andrea Medda
Assistant Professor, Department of Civil and Environmental Engineering and Ar-
chitecture, Transportation Sector, University of Cagliari, Italy.
- 09:45 The Role of Vessel Monitoring Systems (Vms) in Mitigating Illegal, Unreported and
Unregulated (Iuu) Fishing
[Dr. Karim Aboul-Dahab](#)
Senior specialist, Navigation Services,
National Telecom Regulatory Authority, Egypt.
- 10:00 Session Discussion
10:15 Break



Conference Agenda

3rd Day Tuesday, 22nd March 2022

Session 7

"Blue Economy: Renewable Energy Perspective"

Session Chair

Prof. Alaa Abdel-Barry

Vice President for Post Graduate studies
and Scientific Research, AASTMT

- 10:30 Low-Carbon Sustainable Development Path and Strategy for Shipping Industry in China
[Eng. WANG Renjie](#),
Chief Engineer, Department of Atmosphere and Low Carbon, Division of Environment and Resources Research, TPRI (Transport Planning and Research Institute), China.
- 10:45 Decarbonising Short Sea Shipping Operations: Examining the Efforts and Outcomes of a Finnish Shipping Line's Relevant Initiatives
[Dr. Anastasia Christodoulou](#), Dr. Dimitrios Dalaklis, Dr. Aykut I. Ölçer and Dr. Peyman Ghaforian Masodzadeh
Research Associate, World Maritime University, Malmö, Sweden.
- 11:00 Hydrographic Surveys as an Art of Delineating the Impact of Climate Change on The Coastal Environment
[Dr. Ahmed Fekry](#) and Dr. Amr Hamouda
Research Geophysicist, Marine Geophysics Department, National Institute of Oceanography and Fisheries (NIOF), Egypt.
- 11:15 Conceptual Framework for Integration on Renewable Energy Sources for Marine Port Electrification
[Prof. Nikitas Nikitakos](#), Dr Afrokomi-Afroula Stefanakou, Dr. Andrey Nikishin, Dr Maksim Kharitonov, Dr. Elena Gordeeva, Dr Anatoliy Popov and Dr. Pavel Kovalishin
Professor, Department of Shipping Trade and Transport University of the Aegean, Chios, Greece.
- 11:30 Challenges and Opportunities Brought by Decarbonization to Shipping Companies
[Mr. CHEN Ji](#)
Senior Manager, Technical Safety Supervision Department, Safety Supervision Division of China Cosco Shipping Corporation Limited, China.
- 11:45 Session Discussion
12:00 Tea Break



Conference Agenda

3rd Day Tuesday, 22nd March 2022

Session 8

The Role of Industry Environmental Infrastructure to Promote Sustainable Blue Economy

Session Chair

Prof. Ahmed Amin

Professor, Civil Engineering Department
Suez Canal University

- 12:30 Towards A Sustainable Blue Economy: How to Make an Industrial Zone More Environmentally Friendly? The Case of Rotterdam Harbor.
[Prof. Rien van Zetten](#).
Senior Project Manager of Civil Engineering Projects, Department of Project and Program management.
Visiting Professor, World Maritime University, Malmö, Sweden.
- 12:45 Measurement Of Stress Among Marine Engineers:
A Methodological Intervention
[Mr. Toorban Mitra](#) and Mr. Krushna Mohan Pattanaik
Research Officer, Indian Maritime University, India.
- 13:00 Environmental Sustainability of Coastal Areas and Building-With-Nature, 10 Years of Experience in a Dutch Nature Compensation Project.
[Prof. Frank van der Meulen](#)
Associate Professor, Integrated Coastal Zone Management (emeritus), UNESCO-IHE and Deltares, Delft, The Netherlands.
Visiting Professor, World Maritime University, Malmo, Sweden.
- 13:15 Companies affiliated with Suez Canal Authority:
"A Breakthrough into the Future"
[Dr. Ahmed Rezk](#)
Financial Department Agent, Suez Canal Authority, Egypt.
- 13:30 Practice of Promoting Green Waterborne Transport Development in China
[Prof. Peng Chuansheng](#)
Chief Technical Officer, Professor Research Center of Environment Protection and Energy Saving Technology, China Waterborne Transport Research Institute, China.
- 13:45 Session Discussion
14:00 Break



Conference Agenda

3rd Day Tuesday, 22nd March 2022

Closing Session

Chairman

Prof. Ismail Abdel Ghafar Ismail Farag
Conference Chairman

- 14:20 Keynote Speech:
Prof. Ismail Abdel Ghafar Ismail Farag
- 14:30 Proposed Recommendations
Prof. Yousry El Gamal
Head, Conference Technical Committee
- 14:45 Recognition of Speakers, Keynote Speakers, and Sessions Chair
15:00 Lunch



See You @ Marlog 12



The Partners

Scientific Partner



World Association for Waterborne Transport Infrastructure (PIANC)

Established in 1885, PIANC's mission today is to provide expert guidance and technical advice by bringing together the best international experts, both public and private, on technical, economic and environmental issues pertaining to waterborne transport infrastructure. This is reflected in high-quality Technical Reports realised by International Commissions and Working Groups.

Through our four major events, we keep the international waterborne transport community connected: the PIANC World Congresses, the PIANC-COPEDEC Conferences, the PIANC-SMART Rivers Conferences and the PIANC Mediterranean Days.

Finally, PIANC undertakes major efforts to involve Young Professionals and Countries in Transition in its activities.
Website: www.pianc.org

Academic Partner



UNIVERSITÀ DEGLI STUDI
DI GENOVA

University Of Genoa (Università Degli Studi Di Genova)

The University of Genoa has around 300 courses - including post-lauream courses - organized according to the aspirations and attitudes of young people, considering the importance of high qualifications and with a dimension based on the requirements of the European labor market and in many cases - level global. The University of Genoa is the University of Liguria, as it is present throughout the regional territory, with educational centers also in Savona, Imperia and La Spezia.



Co-Organizers Biography



Suez Canal Economic Zone (SCZone)

The Suez Canal Economic Zone (SCZone) is a world-class free zone and trade hub along the banks of the newly-expanded Suez Canal. Strategically located on the main trade route between Europe and Asia, more than eight percent of global trade passes through every year.

The two integrated areas are: Ain Sokhna with Ain Sokhna - Port East Port Said with East Port Said Port. The two development areas are: Qantara West - East Ismailia.

The four ports are: West Port Said Port - Adabiya Port - Al Tor Port - Al Arish Port.

Each integrated and development area provides investment opportunities in industrial and commercial enterprises, infrastructure and real estate development, logistics, amenities and state-of-the-art technology.



MEDports Association

The MEDports Association is a non-profit organization created in June 2018, gathering 25 Ports Authorities and 2 Associated Members.

The MEDports Association aims to improve the efficiency, the competitiveness and the world visibility of the MED ports, and to facilitate the creation of new maritime trade links through the Mediterranean Sea.

In the context of international treaties and regulation, it examines the issues related to port activities and focuses on the impacts on the MED ports.

Website: www.medports.org



Co-Organizers Biography



全球航运智库联盟

Global Shipping Think Tank Alliance

The Global Shipping Think Tank Alliance was founded to gather famous shipping think tanks in different regions of the world, set up a platform for exchange and cooperation and promote solid interactions between shipping think tanks and the shipping industry.

The Alliance aims to provide more valuable consultation services to the shipping industry and to create win-win benefits community for the promotion of the healthy development of global shipping industry.



Union for the Mediterranean
Union pour la Méditerranée
الاتحاد من أجل المتوسط

Union for the Mediterranean

The Union for the Mediterranean (UfM) is an intergovernmental Euro-Mediterranean organisation which brings together all 28 countries of the European Union and 15 countries of the Southern and Eastern Mediterranean.

UfM's mission is to enhance regional cooperation, dialogue and the implementation of projects and initiatives with tangible impact on its citizens, with an emphasis on young people and women, in order to address the three strategic objectives of the region: stability, human development and integration.

The UfM works proactively to achieve greater levels of integration and cooperation in the region through a specific methodology that has yielded positive results in terms of political dialogue and the implementation of region-wide initiatives in which young people play a key role.

Website: www.ufmsecretariat.org

Co-Organizers Biography



Founded in 1955, the International Association of Ports and Harbors (IAPH) is a non-profit-making global alliance of 170 ports and 140 port-related organisations covering 90 countries. Its member ports handle more than 60 percent of global maritime trade and around 80 percent of world container traffic. IAPH has consultative NGO status with several United Nations agencies. In 2018, IAPH established the World Ports Sustainability Program (WPSP).

Guided by the 17 UN Sustainable Development Goals, it aims to unite sustainability efforts of ports worldwide, encouraging international cooperation between all partners involved in the maritime supply chain. WPSP (sustainableworldports.org) covers five main areas of collaboration: energy transition, resilient infrastructure, safety and security, community outreach and governance.

Website: www.iaphworldports.org

International Network for Small and Medium Enterprises

The International Network for Small and Medium Enterprises – INSME is a legally recognized not-for-profit association working under the auspices of the OECD – Organisation for Economic Cooperation and Development. The Association gathers innovation and technology transfer stakeholders including governmental bodies, international organizations, NGOs, business support organizations, chambers of commerce on an international scale.

The Network is a facilitator for the creation of public-private partnership, a gateway to innovation good practices for the support of SMEs and entrepreneurship and a catalyst of information on opportunities, latest trends and insights on innovation, SMEs, technology transfer

E-mail: secretariat@insme.org



Co-Organizers Biography



APEC-Antwerp/Flanders Port Training Center

Smart port connecting smart people
APEC has been giving port training seminars since 1977, transferring knowledge from one port professional to another. Around 16.000 people from all over the world have joined one of the seminars over the past four decades, gaining knowledge and skills, provided by both the private and public maritime sectors in Flanders.

The short-term seminars offer not only the expertise present in Antwerp and Flanders; they also provide a platform of discussion between participants, building a unique bond of friendship amongst them. APEC brings together port professionals and experts from all corners of the world to share and learn best practices, in order to enrich their own professional career.

Website: www.portofantwerp.com



Fundación Valenciaport

Fundación Valenciaport is an Applied Research, Innovation & Training centre providing services to the port and logistics cluster. This initiative of the Port Authority of Valencia has enjoyed the collaboration of notable businesses, universities and institutions from the port community.

Since its establishment, it has developed projects in more than 60 countries, primarily Mediterranean nations, as well as from the rest of Europe, Asia and Latin America.

