

21st Annual General Assembly

IAMUAGA21

The International Association of Maritime Universities
21st Annual General Assembly & Conference
(IAMU-AGA 21 & IAMUC)

26th-28th October 2021

ALEXANDRIA, EGYPT

Program



Hosted by



Arab Academy
for Science, Technology and Maritime Transport



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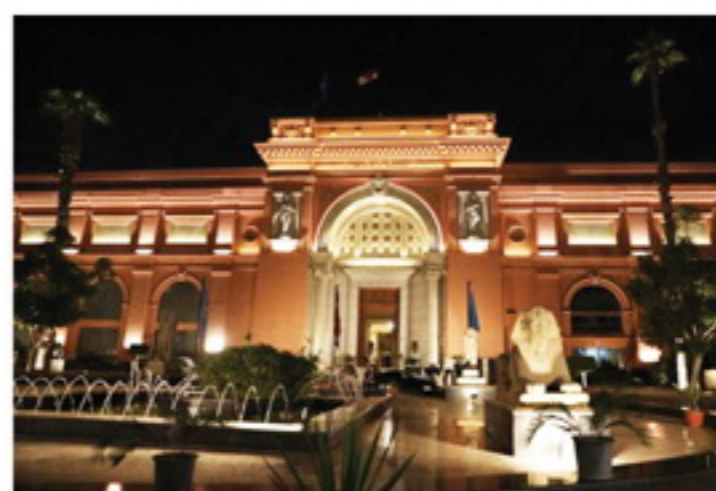
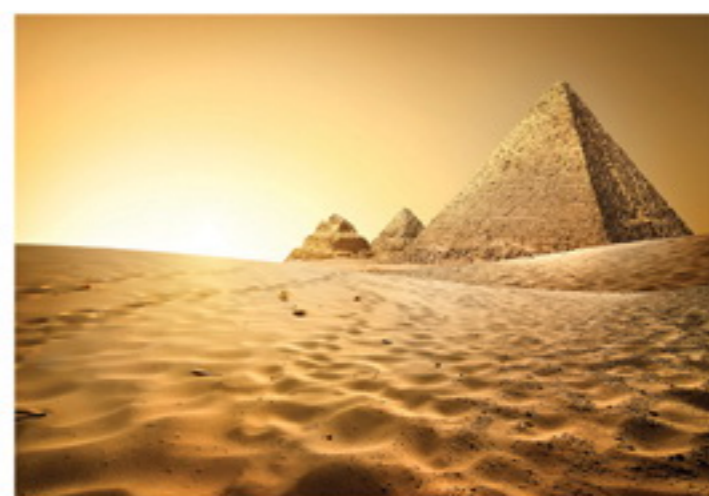
WELCOME TO AGA21

The Annual General Assembly (AGA) is the annual meeting of the International Association of Maritime Universities (IAMU). The International Association of Maritime Universities Conference (IAMUC), held annually as part of the AGA, brings together experts and official representatives of IAMU member universities from all over the world to discuss recent progress and future trends in maritime education, training, research and other matters within the scope of IAMU.

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) is honored to host the 21st Annual General Assembly & IAMUC 2021.

Introduction

Egypt is one of the most ancient and most beautiful countries in the world. Travelers around the world have been intrigued by Egypt for centuries. The rich past of Egypt today has produced a tapestry of cultural and archaeological treasures that is unmatched anywhere in the world. Egypt is a destination full of magic and history that draws millions of tourists every year, offering them an unforgettable journey through history, a land of contrasts that includes breath-taking desert scenery and inspiring ancient world wonders.



AGA 21 & IAMUC Program

Monday, October 25 th		Location Four Seasons Hotel	Chair Prof. Glenn Blackwood
Time	Cairo Time (GMT + 2)	Event	
18:00 – 22:00	Pre-registration		
19:00 – 21:00	Welcome Reception		
Tuesday, October 26 th		Location AASTMT	Chair Prof. Ismail Abdel Ghafar Farag
Time	Cairo Time (GMT + 2)	Event	
08:00 – 09:00	Registration		
09:00 – 10:00	AGA 21 Opening Ceremony		
	09:00 – 09:10 H.E. Prof. Ismail Abdel Ghafar Farag, AASTMT President, Head of LEC-AGA21		
	09:10 – 09:20 H.E. Prof. Glenn Blackwood, IAMU President		
	09:20 – 09:30 H.E. Lieutenant-General Kamel Al-Wazir, Minister of Transportation Egypt		
	09:30 – 09:40 H.E. Mr. Kitack Lim, IMO Secretary General (recorded speech)		
	09:40 – 09:50 H.E. Mr. Yohei Sasakawa, Nippon Foundation Chairman (recorded speech)		
	Online Photo session		
10:30 – 11:00	Physical Photo session & Coffee Break		
	Keynote Lecture		
	10:30 – 10:50 Capt. Reda Shehata, Head of Navigation Control - Suez Canal Authority		
	10:50 – 11:00 Mr. Masahiko Furuichi, IAPH Secretary General (recorded speech)		
11:00 – 12:30	Campus Tour		
	Presidents' Forum		
	IAMU Recent Affairs & GMP-Initiative		
	11:00 – 11:20 Prof. Takeshi Nakazawa, IAMU Executive Director		
	11:20 – 11:40 Dr. Graham Benton "CSUM GMP Implementation"		
	11:40 – 12:00 Dr. Gamal Ghalwash "AASTMT GMP Implementation"		
	12:00 – 12:30 Open Discussion		
	Online Photo session		
12:30 – 14:00	Lunch + Short campus tour for IAMU Presidents (30 min.)		
14:00 – 15:30	AGA 21 Plenary Session (IAMU members only) Mr. Glenn Blackwood & Dr. Takeshi Nakazawa		
15:30 – 16:00	Coffee Break		
	Plenary lecture		
16:00 – 17:00	16:00 – 16:15 Dr. Hesham Helal, IAIN Vice President		
	16:15 – 16:30 Prof. Jin YongXing, Honorary Chair of IMLA (Online)		
	16:30 – 16:45 Mr. Kiran Varanasi, Wartsila Voyage		
	16:45 – 17:00 Open Discussion		
17:00 – 17:15	AGA 21 Closing Ceremony Prof. Ismail Abdel Ghafar Farag & Mr. Glenn Blackwood		
20:00 – 21:30	Dinner	Location: Four Seasons Hotel	

AGA 21 & IAMUC Program

Wednesday, October 27 th		Location Four Seasons Hotel	Chair: Prof. Adam Weintrit (Online) Co-Chair: Capt. Yusuke Mori
Time	Event		
Cairo Time (GMT + 2)	Development and Research projects presentations		
09:00 – 10:30	09:00 – 09:20 Evaluation of Sharp-Lookout Skills Using Performance Assessment toward Developing Automatic Target Avoiding System		
	09:20 – 09:40 Data fusion and machine learning for ship fuel efficiency analysis: a small but essential step towards green shipping through data analytics		
	09:40 – 10:00 Towards a Cyber Secure Shipboard ECDIS		
	10:00 – 10:20 Energy management framework in the zero-emission port		
10:30	Opening of Exhibition		
10:30 – 11:00	Coffee Break		
11:00 – 12:30	Development and Research projects presentations		
	11:00 – 11:20 Calibrating ship emissions with AIS data and field measurements		
	11:20 – 11:40 Maritime Risk Evaluation and Safety Optimization in Narrow Straits: A Case Study in Istanbul Strait and English Channel		
	11:40 – 12:00 Challenges of Maritime Digital Leaders in the Algorithmic Age		
	12:00 – 12:20 Development of a VR Training Video Database for Marine Education and Training		
12:30 – 13:00	IAMUC Opening Ceremony Dr Cleopatra Doumbia-Henry - the President of the World Maritime University, WMU(Online) Program Editing Committee		
13:00 – 14:00	Lunch		

Wednesday, October 27 th		IAMU Conference (IAMUC 21) Technical Sessions Location: Four Seasons Hotel	
Time	Hall (A)	Hall (B)	
Cairo Time (GMT + 2)	Session 1 (A)	Session 1 (B)	
14:00 – 15:30	Impacts of Infectious Pandemic Diseases on The Future of The International Maritime Industry Chair: Dr. Vladimir Loginovsky (online) Co-Chair: Dr. Said Abd El Kader	Smart Maritime Supply Chain & Logistics Chair: Dr. Paul Szwid (online) Co-Chair: Dr. Sara El-Gazzar	
	14:00 Qi Chen "Fast Recovery or Stagnation? The Maritime Industry post COVID-19" 14:30 Emeliza Estimo (online) "Remote Instruction: Challenges, Initiatives, and Future Directions for Maritime Education Institutions in a Developing Country" 15:00 Rosanda Mulic "The COVID - 19 Pandemic and Its Impact on The Maritime Sector in Croatia and The World"	14:00 Frane Tadić "The impact of the container throughput of the Adriatic Gate Container Terminal at the Port of Rijeka on air quality environmental parameters" 14:30 Esslam Hassan "Maritime Surveillance in the Gulf of Suez: Identifying Opportunities for Future Improvements" 15:00 Knud Benedict "Innovative Teaching Method for Ship handling – Element of Project "Euro Za" Between South Africa and Europe"	
15:30	Coffee Break + Poster Presentations		
16:00 – 17:00	Impacts of Infectious Pandemic Diseases on The Future of The International Maritime Industry Chair: Dr. Vladimir Loginovsky (online) Co-Chair: Dr. Said Abd El Kader	Smart Maritime Supply Chain & Logistics Chair: Dr. Paul Szwid (online) Co-Chair: Dr. Sara El-Gazzar	
	16:00 George Gabedava "Impact of COVID19 on Ports and Maritime Transport (Georgian Ports Response to COVID19)" 16:30 Karina Melikjanyan (online) "Life After COVID-19. Cruise Industry Rising from The Ashes"	16:00 Toorban Mitra (online) "Is outsourcing the Panacea? A discourse on the sustainability of Indian Ports A case of Jawaharlal Nehru Port Trust" 16:30 Piotr Kopacz "Towards improving SAR search patterns by time-minimal paths"	
Free Time			

AGA 21 & IAMUC Program

Thursday,
 October 28th

IAMU Conference (IAMUC 21) Technical Sessions
 Location: Four Seasons Hotel

Time	Hall (A)	Hall (B)
Cairo Time (GMT + 2)	Session 3 (A)	Session 3 (B)
09:00 – 10:30	<p>Innovative MET Environment Chair: Dr. Graham Benton Co-Chair: Capt. Emad Khafagy</p> <p>09:00 Paul Szwed (online) "Developing Outcomes-Based Model Courses Using Identified EvidenceBased Practices" 09:30 Johan Bolmsten (online) "Sustainable development processes of education technologies - A case studies synthesis" 10:00 Sanjeev Vakil (online) "Application of Augmented Reality (AR) / Virtual Reality (VR) Technology for Remote Maintenance of Autonomous Ships"</p>	<p>New Trends in Maritime Transport & Job Opportunities Chair: Dr. Shuhong Chai (online) Co-Chair: Dr. Ahmed AL Kassar</p> <p>09:00 Joshua Shackman "The Interrelationship Between Coastal, Great Lakes, Inland and Deep- Sea Freight Rates: A Longitudinal Approach" 09:30 Daniel Edwin (online) "Proposal for the introduction of "Shore to Ship Alert System" 10:00 Prasanna Kumar Rajakumaran (online) "Automation of FRAMO Cargo Pump purging with IoT"</p>
10:30	Coffee Break + Poster Presentations	
	Session 4 (A)	Session 4 (B)
11:00 – 12:30	<p>Innovative MET Environment Chair: Dr. Graham Benton Co-Chair: Capt. Emad Khafagy</p> <p>11:00 Adi Mas Nizar (online) "Measuring Situation Awareness in Engine Control Operation" 11:30 Svitlana Barsuk (Online) "Active Learning Strategies in Maritime English Training" 12:00 Liza Nordfeldt and Johan Ljungklint "Marine student's information literacy skills- a case study of marine engineer's bachelor thesis at Chalmers University of Technology"</p>	<p>Marine Pollution, Climate Change & Renewable Energy New Challenges Chair: Dr. Gamal Ghalwash Co-Chair: Dr. Yasser Gaber</p> <p>11:00 Zhongmin Ma (online) "Analysis of marine diesel engine emission characteristics under bench test conditions in China" 11:30 Germán de Melo Rodríguez "Towards Zero Ship Emissions II – Project Greenship" 12:00 Nikitas Nikitakos "Using Artificial Intelligence (AI) methods to combat climate change at marine ports"</p>
12:30 – 13:30	Lunch	
	Session 5 (A)	Session 5 (B)
13:30 – 15:00	<p>New Trends in Maritime Transport & Job Opportunities Chair: Dr. Shuhong Chai (online) Co-Chair: Dr. Ahmed AL Kassar</p> <p>13:30 Michael Baldauf (online) "Navigational Alarms and Warnings to Support VTS Operation" 14:00 Natalia Nikolova and Kiril Tenekedjiev (online) "Novel Shipping Competitiveness Index Using Ordered Weighted Average Operator" 14:30 Ahmed Swidan "Towards Enhancing Maritime Asset Management Value Through Transforming Maritime Expert Knowledge into Machine Learning Models"</p>	<p>Marine Pollution, Climate Change & Renewable Energy New Challenges Chair: Dr. Gamal Ghalwash Co-Chair: Dr. Yasser Gaber</p> <p>13:30 Riina Palu (online) "Limitations and Opportunities for Wave Energy Utilization in the Baltic Sea: the case-study of Estonia" 14:00 Sheeja Janaradhanan (online) "Mathematical Modeling and Design of a Barrel Cam Based Transmission Mechanism for Uninterrupted Energy Harnessing from Vortices" 14:30 Loay Aboud "Zero Emissions Ferries Utilizing PV/ Shore Connection Hybrid Power System"</p>
15:00	Coffee Break + Poster Presentations	
	Session 6 Main Hall	
15:30 – 17:00	<p>GMP Applications & Human Capacity Building in Maritime Affairs Chair: Prof. Takeshi Nakazawa Co-Chair: Capt. Mahmoud Al Bawab</p> <p>15:30 Vladimir Loginovsky (online) "Global Maritime Professional: University Course of Risk Assessment - Case Study of Cadets Academic Performance Based on Bloom's Taxonomy" 16:00 Graham Benton "The Application of The Global Maritime Professional Framework on An MET Program: A Case Study" 16:30 Mohamed Rowihil "Sustainable Development in Maritime Education and Training (SDIMET) Towards Global Maritime Professionals (GMP) Devel-</p>	

AGA 21 & IAMUC Program

17:00 **Coffee Break + Posters Presentation**

IAMUC Closing Ceremony

17:30 – 18:00

Prof. Dr. Ismail Abdelghafar Ismail Farag, AASTMT President, Head of LEC-AGA21
Prof. Dr. Takeshi Nakazawa, IAMU Executive Director
Prof. Dr. Glenn Blackwood, IAMU President

20:30 **Gala Dinner**

For further information on the IAMUC program, kindly visit the conference website via the following link <https://aga21.aast.edu/en/home>.

**Friday,
 October 29th**

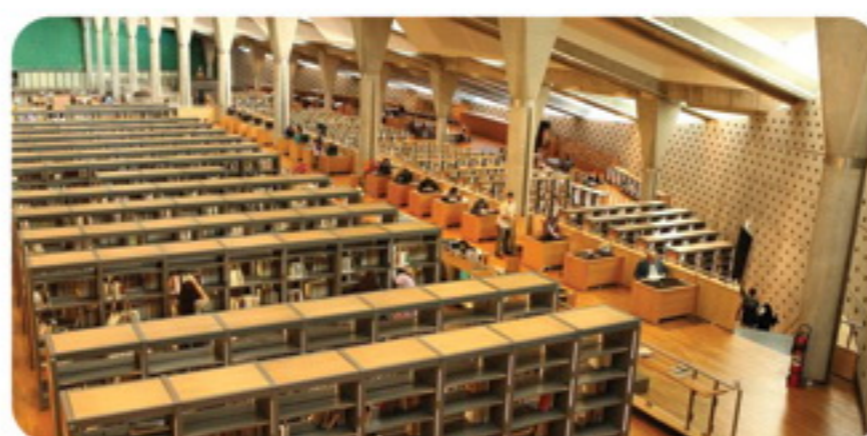
TECHNICAL TOUR

Cairo Time (GMT + 2)

9:30 – 16:00

- Pickup at Four Seasons Hotel
- Bibliotheca Alexandrina & its Museums
- Archaeological Museum/Manuscripts Museum
- Sadat Museum
- Alexandria overtime Museum
- Fashion Museum
- Shady Abdel-Salam Museum
- Lunch at the Greek club with a view of the eastern port

Bibliotheca Alexandrina





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