

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

21st Annual General Assembly
IAMUAGA21
26th-28th October 2021
ALEXANDRIA, EGYPT

2021



Hosted by

Arab Academy
for Science, Technology and Maritime Transport



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AGA 21 & IAMUC Program

Monday, October 25 th	Location Four Seasons Hotel	Chair Prof. Glenn Blackwood
Time	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	Event	
08:00 – 09:00	Registration	
09:00 – 10:00 Coordinators: Capt. M. Rowihil Dr. Omneya Darwish	AGA 21 Opening Ceremony 0900 – 0910 H.E. Prof. Ismail Abdel Ghafar Farag , AASTMT President, Head of LEC-AGA21 0910 – 0920 H.E. Prof. Glenn Blackwood , IAMU President 0920 – 0930 H.E. Lieutenant-General Kamel Al-Wazir , Minister of Transportation Egypt 0930 – 0940 H.E. Mr. Kitack Lim , IMO Secretary General (recorded speech) 0940 – 0950 H.E. Mr. Yohei Sasakawa , Nippon Foundation Chairman (recorded speech) Online Photo session	
10:00 – 10:30	Physical Photo session & Coffee Break	
10:30 – 11:00	Keynote Lecture 1030 – 1050 Capt. Reda Shehata, Head of Navigation Control - Suez Canal Authority 1050 – 1100 Mr. Masahiko Furuichi, IAPH Secretary General (recorded speech)	
11:00 – 12:30	Campus Tour	
11:00 – 12:30	Presidents' Forum IAMU Recent Affairs & GMP-Initiative 1100 – 1120 Prof. Takeshi Nakazawa, IAMU Executive Director 1120 – 1140 Dr. Graham Benton “CSUM GMP Implementation” 1140 – 1200 Dr. Gamal Ghalwash “AASTMT GMP Implementation” 1200 – 1230 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	
16:00 – 17:00	Plenary lecture 1600 – 1615 Dr. Hesham Helal, IAIN Vice President 1615 – 1630 Prof. Jin YongXing, Honorary Chair of IMLA (Recorded Speech & Online) 1630 – 1645 Mr. Kiran Varanasi, Wartsila Voyage 1645 – 1700 Open Discussion	
17:00 – 17:15	AGA 21 Closing Ceremony Prof. Dr. Ismail Abdel Ghafar Farag & Mr. Glenn Blackwood	
20:00 – 21:30	Dinner	Location: Four Seasons Hotel



Wednesday, October 27th	Location Four Seasons Hotel	Chair: Prof. Dr. Adam Weintrit (Online) Co-Chair: Capt. Yusuke Mori
Time	Event	
09:00 – 10:30	Development and Research projects presentations 0900 – 0920 Evaluation of Sharp-Lookout Skills Using Performance Assessment toward Developing Automatic Target Avoiding System 0920 – 0940 Data fusion and machine learning for ship fuel efficiency analysis: a small but essential step towards green shipping through data analytics 0940 – 1000 Towards a Cyber Secure Shipboard ECDIS 1000 – 1020 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 1100 – 1120 Calibrating ship emissions with AIS data and field measurements 1120 – 1140 Maritime Risk Evaluation and Safety Optimization in Narrow Straits: A Case Study in Istanbul Strait and English Channel 1140 – 1200 Challenges of Maritime Digital Leaders in the Algorithmic Age 1200 – 1220 Development of a VR Training Video Database for Marine Education and Training	
12:30 – 13:00	IAMUC Opening Ceremony Program Editing Committee	
13:00 – 14:00	Lunch	

IAMU Conference (IAMUC 21) Technical Sessions

Wednesday, October 27th

Location: Four Seasons Hotel

Time	Hall (A)	Hall (B)
	Session 1 (A)	Session 1 (B)
	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 – 15:30	<p>1400: Qi Chen “Fast Recovery or Stagnation? The Maritime Industry post COVID-19”</p> <p>1430: Emeliza Estimo (online) “Remote Instruction: Challenges, Initiatives, and Future Directions for Maritime Education Institutions in a Developing Country”</p> <p>1500: Rosanda Mulic “The COVID - 19 Pandemic and Its Impact on The Maritime Sector in Croatia and The World”</p>	<p>1400: Frane Tadić “The impact of the container throughput of the Adriatic Gate Container Terminal at the Port of Rijeka on air quality environmental parameters”</p> <p>1430: Esslam Hassan “Maritime Surveillance in the Gulf of Suez: Identifying Opportunities for Future Improvements”</p> <p>1500: Knud Benedict “Innovative Teaching Method for Ship handling – Element of Project “Euro Za” Between South Africa and Europe”</p>
15:30	Coffee Break + Poster Presentations	
	Session 2 (A)	Session 2 (B)
	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 – 17:00	<p>1600: George Gabedava “Impact of COVID19 on Ports and Maritime Transport (Georgian Ports Response to COVID19)”</p> <p>1630: Karina Melikjanyan (online) “Life After COVID-19. Cruise Industry Rising from The Ashes”</p>	<p>1600: Toorban Mitra (online) “Is outsourcing the Panacea? A discourse on the sustainability of Indian Ports A case of Jawaharlal Nehru Port Trust”</p> <p>1630: Piotr Kopacz “Towards improving SAR search patterns by time-minimal paths”</p>
	Free Time	

Thursday, October 28 th .		Location: Four Seasons Hotel	
Time	Hall (A)	Hall (B)	
	Session 3 (A)	Session 3 (B)	
	Innovative MET Environment Chair: Dr. Graham Benton Co-Chair: Capt. Emad Khafagy	New Trends in Maritime Transport & Job Opportunities Chair: Dr. Shuhong Chai (online) Co-Chair: Dr. Ahmed AL Kassar	
09:00 – 10:30	0900: Paul Szwed (online) “Developing Outcomes-Based Model Courses Using Identified Evidence-Based Practices” 0930: Johan Bolmsten (online) “Sustainable development processes of education technologies - A case studies synthesis” 1000: Sanjeev Vakil (online) “Application of Augmented Reality (AR) / Virtual Reality (VR) Technology for Remote Maintenance of Autonomous Ships”	0900: Joshua Shackman “The Interrelationship Between Coastal, Great Lakes, Inland, and Deep- Sea Freight Rates: A Longitudinal Approach” 0930: Daniel Edwin (online) “Proposal for the introduction of “Shore to Ship Alert System” 1000: Prasanna Kumar Rajakumaran (online) “Automation of FRAMO Cargo Pump purging with IoT”	
10:30	Coffee Break + Poster Presentations		
	Session 4 (A)	Session 4 (B)	
	Innovative MET Environment Chair: Dr. Graham Benton Co-Chair: Capt. Emad Khafagy	Marine Pollution, Climate Change & Renewable Energy New Challenges Chair: Dr. Gamal Ghalwash Co-Chair: Dr. Yasser Gaber	
11:00 – 12:30	1100: Adi Mas Nizar (online) “Measuring Situation Awareness in Engine Control Operation” 1130: Svitlana Barsuk (Online) “Active Learning Strategies in Maritime English Training” 1200: 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”	1100: Zhongmin Ma (online) “Analysis of marine diesel engine emission characteristics under bench test conditions in China” 1130: Germán de Melo Rodríguez “Towards Zero Ship Emissions II – Project Greenship” 1200: Nikitas Nikitakos “Using Artificial Intelligence (AI) methods to combat climate change at marine ports”	
12:30 - 13:30	Lunch		

	Session 5 (A)	Session 5 (B)
13:30 – 15:00	<p>New Trends in Maritime Transport & Job Opportunities <i>Chair: Dr. Shuhong Chai (online)</i> <i>Co-Chair: Dr. Ahmed AL Kassar</i></p> <p>1330: Michael Baldauf (online) <i>“Navigational Alarms and Warnings to Support VTS Operation”</i></p> <p>1400: Natalia Nikolova and Kiril Tenekedjiev (online) <i>“Novel Shipping Competitiveness Index Using Ordered Weighted Average Operator”</i></p> <p>1430: Ahmed Swidan <i>“Towards Enhancing Maritime Asset Management Value Through Transforming Maritime Expert Knowledge into Machine Learning Models”</i></p>	<p>Marine Pollution, Climate Change & Renewable Energy New Challenges <i>Chair: Dr. Gamal Ghalwash</i> <i>Co-Chair: Dr. Yasser Gaber</i></p> <p>1330: Riina Palu (online) <i>“Limitations and Opportunities for Wave Energy Utilization in the Baltic Sea: the case-study of Estonia”</i></p> <p>1400: Sheeja Janaradhanan (online) <i>“Mathematical Modeling and Design of a Barrel Cam Based Transmission Mechanism for Uninterrupted Energy Harnessing from Vortices”</i></p> <p>1430: Loay Aboud <i>“Zero Emissions Ferries Utilizing PV/ Shore Connection Hybrid Power System”</i></p>
15:00	Coffee Break + Poster Presentations	
	Session 6 (IAMUC + IAMUS) Main Hall	
15:30 – 17:00	<p>GMP Applications & Human Capacity Building in Maritime Affairs <i>Chair: Prof. Takeshi Nakazawa</i> <i>Co-Chair: Capt. Mahmoud Al Bawab</i></p> <p>1530: Vladimir Loginovsky (online) <i>“Global Maritime Professional: University Course of Risk Assessment - Case Study of Cadets Academic Performance Based on Bloom's Taxonomy”</i></p> <p>1600: Graham Benton <i>“The Application of The Global Maritime Professional Framework on An MET Program: A Case Study”</i></p> <p>1630: Mohamed Rowihil <i>“Sustainable Development in Maritime Education and Training (SDIMET) Towards Global Maritime Professionals (GMP) Development”</i></p>	
17:00	Coffee Break + Posters Presentation	
17:30 – 18:00	<p>IAMUC Closing Ceremony 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</p>	
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>.