



AMET
UNIVERSITY

(Deemed to be University Under Section 3 of UGC Act 1956)



ACADEMY OF MARITIME EDUCATION AND TRAINING IAMUC | AGA25

25th | ANNUAL
GENERAL
ASSEMBLY

14th-18th OCTOBER, 2025



IAMU
International Association of Maritime Universities



**日本 財団 THE NIPPON
FOUNDATION**



25th ANNUAL GENERAL ASSEMBLY

14th-18th OCTOBER, 2025



INTERNATIONAL ASSOCIATION OF MARITIME UNIVERSITIES (IAMU)

IAMU was founded by seven universities representing the five continents of the world (Representative Universities) in November 1999, with a shared recognition of the significance of maritime education and training in the rapid globalization of the international shipping arena. Since then, IAMU has significantly expanded its membership, and now boasts 81 universities/academies/faculties of the world's maritime education and training institutions, and the Nippon Foundation as its members, total 82 altogether.

IAMU ANNUAL GENERAL ASSEMBLY (AGA)

The Annual General Assembly (AGA) is a forum to allow the exchange of information, policy approvals, and the development and fostering of good relations and collaboration among IAMU member universities.

The Plenary Session, Presidents' Forum, Project Presentations and IAMU conference (IAMUC) are the main components of AGA. The IAMU Student Program (IAMUS) may be jointly organized by the host university.

PLENARY SESSION

The Plenary Session provides all staff of member universities with an opportunity to review activities of IAMU and to approve IAMU policies, programs and budget as recommended by the International Executive Board (IEB). The Chair of IAMU and the Executive Director, on behalf of IEB, report to the member universities on the decision of the IEB.

PRESIDENT'S FORUM

The President's Forum is a meeting in which the Presidents of IAMU member universities talk about issues especially on policy, direction, and activity of IAMU considering the academic relationship among member universities as well as the economic and technological developments in the international maritime community. The Local Executive Committee (LEC) of an AGA is responsible for organizing the President's Forum during the AGA.

PROJECT PRESENTATIONS

Each project coordinator/ representative of a research project shall make a project presentation in front of academic staff of member universities during the AGA, which is to improve the quality of the project.

IAMU CONFERENCE

IAMU Conference (IAMUC) provides academic staff of member universities with an opportunity to present the outcomes of their academic/ scientific research to the IAMU community. The LEC together with the International Program Committee (IPC) jointly organizes the IAMU Conference, including the selection of session topics and qualifying papers.

IAMU STUDENT PROGRAM

LEC of an AGA may organize the IAMU Student Program (IAMUS) during the AGA where students of member universities jointly participate in some events related to student's activities.

WELCOME TO AGA25

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. AMET University is honored to host the 25th Annual General Assembly, IAMUC and IAMUS 2025.

INTRODUCTION

The 25th Annual General Assembly will be a landmark event hosted by AMET University, India's first Maritime University, established in 1993. For over three decades, AMET has contributed to the maritime sector by producing skilled professionals, advancing research, and fostering innovations that serve not only India but the global maritime community.

This event aims to bring together global maritime leaders, academics, industry experts, and policymakers to exchange knowledge, share best practices, and foster international collaboration. The conference seeks to advance maritime education, training, research, and innovation, while strengthening partnerships that address emerging challenges and shape the future of the global maritime sector.

Maersk AP Moller, Denmark, one of the renowned and leading shipping companies of the world, have established a Centre of Excellence in collaboration with AMET University which is the first model of Centre of Excellence in the world established by a leading shipping company with an understanding that every year AP Moller has to recruit 240 students at the time of their admission itself and it is in practice for the last 3 years. Likewise, other leading shipping companies like V Ships are having Memoranda of Understanding

and established their Centre of Training in our Campus with an assurance to recruit around 280 cadets every year at the time of admission itself.

HISTORICAL BACKGROUND OF THE CITY

Discover India's rich cultural heritage through maritime museums, Centres of Excellence, and industry collaborations. Experience the unique blend of multilingual and multicultural traditions that define India's maritime legacy. Chennai, the Gateway to South India, is a city where tradition and modernity blend seamlessly. From the UNESCO World Heritage Site of Mahabalipuram, known for its ancient rock-cut temples and Dravidian architecture, to the iconic Marina Beach, the world's second-longest beach, the city offers diverse experiences. Heritage landmarks like the Santhome Church and Kapaleeshwarar Temple reflect Chennai's deep spiritual and cultural roots, while the Government Museum showcases India's rich history and art. For cultural immersion, Dakshina Chitra brings alive the traditions and architecture of South India, and for nature lovers, the Arignar Anna Zoological Park offers a glimpse of biodiversity. Adding to its spiritual vibrance, ISKCON Chennai provides a peaceful retreat of devotion and meditation. Together, these attractions make Chennai a destination of history, culture, spirituality, and coastal beauty.



AGA2025 – IAMUC

14th- 15th October, 2025



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

14th October, 2025 - Tuesday

Time	Event and Location
01:00 PM-04:00 PM	Early Registration Registration desks in the lobbies of the Raddison Blu Resort, Mamallapuram, Chennai, India
07:00 PM-09:00 PM	Welcome Reception and Registration Raddison Blu Resort Welcome Remarks Dr. J Ramachandran , Founder and Chancellor, AMET University, Chief Patron of AGA25 Cultural Program Dinner

15th October, 2025 - Wednesday

09:00 AM	Same-Day Registration / Information Table	
09:30 AM-11:00 AM	AGA25 Opening Ceremony: Ballroom (Pennsula/ Goldcoast)	
11:00 AM-11:30 AM	Group Photo	Coffee Break
11:30 AM-01:00 PM	Presidents Forum Hall: Pennsula - Raddison Blu Resort	
01:00 PM-02:00 PM	Lunch	
02:00 PM-04:00 PM	Plenary Session (IAMU Members Only): Hall: Goldcoast	
04:00 PM-04:30 PM	Coffee Break	
04:30 PM-05:50 PM	IAMU Project Presentations: IAMU Research Projects: Hall: Pennsula	
04:30 PM-04:40 PM	Opening for Project Presentation	
04:40 PM-04:50 PM	Project 1	PI
04:50 PM-05:00 PM	Project 2	PI
05:00 PM-05:10 PM	Project 3	PI
05:10 PM-05:20 PM	Project 4	PI
05:20 PM-05:30 PM	Project 5	PI
05:30 PM-05:40 PM	Project 6	PI
05:40 PM-05:50 PM	Project 7	PI
07:00 PM	Dinner at the Radisson Blu Resort Lawn	

AGA2025 – IAMUC

16th October, 2025- Thursday



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

TIME	SESSION A - PENNSULA HALL	SESSION B - GOLDCOAST HALL	SESSION C - NAUTICA HALL
	CHAIR 1	CHAIR 2	CHAIR 3
09:30 AM – 09:50 AM	Peter Ivar Sandell The future training needs for persons working in Remote Operation Center (ROC)	Luis Evidente and Emeliza Estimo "Life Skills, Technological Awareness, and Attitude of Maritime Students Toward Emerging Technologies: Bases for A Proposed Academic Intervention Plan	Sunil Kumar Panda and Sanjeet Kanungo Finding importance of factors by statistical analysis of big data – maritime accidents happened in Indian waters
09:50 AM – 10:10 AM	Rincy Raju and Dr Yogamala H L H L Exploring Factors Influencing Workplace Wellbeing and Mental Health Among Indian Seafarers	Xiaoling Zhu, Keming Ma, Yushan Huang, Qiyan Wang and Qizhe Wang A Study on the Linguistic Features of IMO Legal Proposals	Katarzyna Skrzyszewska and Dariusz Jellonnek The directions of changes in motivators for choosing a career at sea
10:10 AM – 10:30 AM	Ergun Demirel, Murat Saka and Gokay Yilmaz Development Tanker Training to Meet New Requirements in the Regulations and Sire 2.0	Germán De Melo Rodríguez, Reza Ziarati, Heikki Koivisto, Januz Uriasz, Lakhvir Singh, Amirehsan Barzegarsedigh, Amir Lazempour and Aris Chronopoulos A Framework for Continuous Improvement in Safety at Sea	Andrea Russo, Slavka Kraljević, Sandra Bijelić Tadić and Zlatko Kljajić Self-Censorship Among Seafarers: Key Causes and the Importance of Effective Mentoring
10:30 AM – 11:00 AM	COFFEE BREAK		
	CHAIR 4	CHAIR 5	CHAIR 6
11:00 AM – 11:20 AM	Gholam Reza Emad, Saratkumar Narayanan, Momoko Kitada and Angelica Baylon Women in Maritime: Gender Equality, its Challenges and Opportunities	Marin Hero, Peter Vidmar and Marko Perkovic Integrating System Dynamics Into Maritime Education for Green Shipping Corridors and Decarbonization Strategies	Junghwan Choi Regulatory Challenges and Future Directions in Cybersecurity for Maritime Autonomous Surface Ship(MASS)
11:20 AM – 11:40 AM	Paul Szwed, Matthew Rooks and Gregory Sholdt Navigating Beyond Borders: Cultivating Affective Competencies in Future Global Maritime Professionals through Study Away Programs	Zorica Đurović and Milena Dževerdanović Pejović Enhancing Standardized VTS Communication Skills through Digital Educational Tools	Deepa Rajesh and Vettriselman Rajasekaran Fostering Gender Equality in Maritime Innovation: Economic Growth and Sustainable Development
11:40 AM – 12:00 PM	Guladi Tkhliaishvili, Ketevan Tchanidze, Manuchar Loria, Sopiko Dumbadze and Teona Dzeladze E-Learning in Maritime Education, Challenges and Opportunities: Case Study of the Black Sea Countries	George Gabedava Maritime Competences for the Future: Role of Internationalization in Transversal Skills Development	Oleksandra Litikova Ocean Learning Platform (OLP) as a tool for developing hard and soft skills of marine engineers

AGA2025 – IAMUC

16th October, 2025- Thursday



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

TIME	SESSION A - PENNSULA HALL	SESSION B - GOLDCOAST HALL	SESSION C - NAUTICA HALL
	CHAIR 7	CHAIR 8	CHAIR 9
12:00 PM – 12:20 PM	Steven Baer, Salman Nazir and Kent Salo Maritime Education in a Rapidly Changing Arctic	Darko Glujic, Goran Vizentin, Goran Vukelić and Dario Ogrizovic Mixed reality firefighting simulator	Vicente Juan Torio and Myrna Matira Gamification in Maritime Education: Bridging Traditional and Innovative Approaches at MAAP-ASTC
12:20 PM – 12:40 PM	Du Juan and Zhu Xiaoling An Analogical Corpus-Based Study of Maritime Proposal Convergence Trends for Chinese and English Native Speakers	Khairul Izzati Bin Kamarumtham, Ippei Sugimoto and Koji Murai An Ingenious Method to Reveal Seafarers' Situational Awareness: Assessing Gaze Behavior with Simulation-based Video Analysis	Anatoli Alop, Katre Koit, Jarmo Köster and Olev Tõnismaa Course of Navigation Risk Management in the Age of NEW Technologies: Teaching Principles and Practices
12:40 PM – 01:00 PM	Paul Szwed, Cassia Galvão, Srđan Vujičić, Huanxin Wang, Mahmoud El Baowab and Gamal Galwash What Competencies will be Required of Global Maritime Professionals in the Next Five Years?	Weronika Ceynowa and Adam Przybyłowski Exploring digital solutions in maritime transport - challenges in supply chain management on training vessels	Thi Anh Tho Tran Settlement of dispute arising out of blockchain-based smart Contract: a revisit of private international laws in Maritime convention network
01:00 PM – 02:00 PM	LUNCH BREAK		
	CHAIR 10	CHAIR 11	CHAIR 12
02:00 PM – 02:20 PM	Chavdar Alexandrov, Iglia Ivanova-Slavova and Nikolay Ivanov Eco-activism and its impact on seaborne economic endeavours	S. June Kim The Impact of the China Effect on Korea's shipping industry, 2004-2010	Gamini Lokuketagoda, Takashi Miwa, Muhammed Iraz and Nageetha Jayathilake Re-creating maritime incidents with engine room simulator
02:20 PM – 02:40 PM	Rolando Alimen, Ernie Jay Teves, Agustin Bedia, Allan Roberto, Nerios Cortejo and Victor Ruperto Jaleco Automated Marine Sewage Treatment Plant (Mstp) using Ultraviolet Lights For Domestic Ships in the Philippines	Heikki Koivisto and Reza Emad Sustainable Flow: Sustainable flow of goods and decreased CO2 emissions of transportation	Nguyen Dinh-Thuy-Huong and Nguyen Thanh-Le Rare procurements related to green energy sale in Vietnam shipping companies: explanations from street level bureaucracy theory
02:40 PM – 03:00 PM	Bharathi K and Satish Kumar S Analyzing the Eco-Benefits of Innovative Hydrogen Production Methods	Simone Dürr, Sheelagh Conlan, Juan Ahuir Torres, Martin Sharp, Eddie Blanco Davis, Tahsin Opoz, Hiren Kotadia, Bogdan Hnatiuc, Cristina Dragomir, Adrian Sabău, Simona Ghiță, Mihaela Hnatiuc, Yasin Arslanoğlu, Özkan Uğurlu, Refik Özyurt, Mani Jayaprakashvel, Radhakrishnan Mutheshilan and Vijayaraj Radha Facilitating greener education and cleaner shipping through the development of NOvel bespoke microtextured metals to combat bioFOULing in niche areas on vessels	Thangalakshmi S and Sivasami K Harnessing ocean energy: advancing marine renewable Technologies for sustainable coastal development
03:00 PM – 03:30 PM	COFFEE BREAK		
03:30 PM – 06:30 PM	POSTER PRESENTATION		
07:00 PM	DINNER		

AGA2025 – IAMUC

17th October, 2025- Friday



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

TIME	SESSION A - PENNSULA HALL	SESSION B - GOLDCOAST HALL	SESSION C - NAUTICA HALL
	CHAIR 13	CHAIR 14	CHAIR 15
09:30 AM – 09:50 AM	T Sasilatha, Padmapriya J, Karthickmanoj R and Col Dr. Thiruvasagam G Artificial Intelligence based Species Identification in Underwater Ecosystems: Advancing Marine Biodiversity Monitoring	Linus Boustedt and Fatima Ismael Impacts of nearshoring within the textile industry on European liner shipping	Dino Županović, Ana Gundić, Astrid Zekić and Ivica Skoko Challenges and opportunities analysis regarding Cold Ironing implementation in ADRIAN region ports
09:50 AM – 10:10 AM	Xin Shi, Ying Wang, Xufeng Tang, Jian Zheng and Zekun Zhang Indicators of Energy Efficiency: Determining Factors and Their Effects on the Application of Decarbonization Technologies in Ships	Luka Vukić, Rino Bošnjak and Gorana Jelić Mrčelić Managing the risk of fire from electric vehicles on board ferries: an overview of current regulations and proposals	Tatsuro Ishida, Takashi Miwa, Sara Sato, Muhammed Iraz, Nageetha Jayathilake, Gamini Lokuketagoda and Ryotaro Takeda Study on Behavioral Characteristics of Engineers in Engine Room simulator Using Eye-tracking Measurement Devices
10:10 AM – 10:30 AM	Trudi Hogg, Samrat Ghosh and Benjamin Brooks Safe operator dependence on automation in MASS 1 and MASS 2: A systematic review on the interaction between perceived risk and trust calibration	Tamera Gilmartin Considerations on the Experience of Multilingual MET Students using Virtual Reality	Gea Mišćević, Edvard Tijan and Saša Aksentijević Enhancing Cyber Resilience in Critical Maritime Infrastructures
10:30 AM – 11:00 AM	COFFEE BREAK		
	CHAIR 16	CHAIR 17	CHAIR 18
11:00 AM – 11:20 AM	Ruolan Zhang and Mingyang Pan Research on Maritime Professional Knowledge Base Construction and Intelligent Teaching System Based on Large Language Model	Wahidul Sheikh, Reza Emad and T M Rabiul Islam Green Technologies and Evolving Role of Seafarers in the Future of Shipping Industry	Gholam Reza Emad, Mehrangiz Shahbakhsh and Mohsen Khabir Artificial Intelligence and its Transformative Impact in Shaping the Maritime Industry
11:20 AM – 11:40 AM	Yvvsatyanarayana Murthy, Ram M Hulmani, Ram Mohan Rao M and Jayagopal M Narayanan Numerical modelling of Steady state and Transient analysis of a dual fuel injector with split cam technology for Automotive and Marine Injection Systems	Mykhaylo Miyusov, Oleksandr Kryvyi and Dmytro Zhukov Dependence of the thrust and power of wind propulsors on the speed of the vessel	Kamalesh Kumar P, Dr. C. Vairavan and Ramaraju Sabapathy Multimodal CLIL and Sustainable Maritime Education: Leveraging Disruptive Technologies for Future Seafarers

AGA2025 – IAMUC

17th October, 2025- Friday



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

TIME	SESSION A - PENNSULA HALL	SESSION B - GOLDCOAST HALL	SESSION C - NAUTICA HALL
11:40 AM – 12:00 PM	Johan Bolmsten, Jeric Bacasdoon, Claudia Barahona-Fuentes, Carolyn Graham, Kirtan Vakil and Tirth Vakil The Utility of Extended Reality in Maritime Education and Training: A Bibliometric Review	Knud Benedict, Michael Baldauf, Mario Gehrke, Maximilian Sternberg, Daniel Rostek and Matthias Kirchhoff Fast Time Simulation and Dynamic Manoeuvring Prediction – towards Integration of Disruptive Technology for Training of Navigators of the Future	T Sasilatha, Padmapriya J and Col Dr Thiruvasagam G Geo-Spatial Visualization of MBES and ROV Data to Explore the Submerged Port City of Poompuhar
	CHAIR 19	CHAIR 20	CHAIR 21
12:00 PM – 12:20 PM	Pritam Pattanaik, Prasheet Mishra, Vik Patra, Saswat Ranjan Barik and Pallab Das AI Powered Approach to Maritime Pirate Attack Detection	Marieta Stefanova and Anna Karadencheva Integrating Healthy and Multicultural Dishes into Ship Galley Management Training as an Innovation for Sustainable Maritime	Antonio Blazina and Lovro Maglic Advancing MET through technology: ROV education and training for seafarers
12:20 PM – 12:40 PM	Prasheet Mishra, Pritam Pattanaik, Vik Patra, Saswat Ranjan Barik and Pallab Das A Comprehensive Fuel Management System for Ships Using AI and Web Integration	T. Sasilatha, Padmapriya J and Col Dr Thiruvasagam G Launching the AMET Marine Exploration Data Portal for Maritime Heritage Studies	Kyungrok Kim Selection of the optimal alternative fuel in terms of the sustainability of the shipping industry through the multi-attribute decision making
12:40 PM – 01:00 PM	Ebenezer Teigaga, Eliyusta Haule and Denis Atehnjia Leveraging Shipping Lines and Predictive Analytics for Floating Plastic Waste Mitigation in Coastal Areas	Kyungrok Kim Selecting the optimal alternative fuel for the sustainable development of the shipping industry through multi-attribute decision-making	Capt. Ashok Pandey and Capt. K Karthik Arctic Navigation- Digital Voyage Planning & Management
01:00 PM – 01:20 PM			Emzar Gvarishvili and Johan Bolmsten Enhancing Maritime English Proficiency Among Cadets in Georgia: An Action Research Approach to Developing a Tailored E-Learning Course
01:20 PM – 02:20 PM	LUNCH BREAK		
Time : 02:30 - 03:30 PM - Closing Ceremony			
07:00 PM	DINNER		

AGA2025 – IAMUC



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

16th October, 2025 | 9:00 AM to 6:30 PM

17th October, 2025 | 9:00 AM to 2:30 PM

HALL: ISLE OF WATER

POSTER PRESENTATIONS

Economical Aspect	
Amit Mahajan, Emil Mathew and Anisha Banerjee	Predicting Aggregated Cargo Throughput of Major Indian Sea Ports with Bayesian Structural Time Series
Policy Aspect	
Peter Ivar Sandell	Seafarers legal position when vessels are used for illegal activities against marine infrastructure
Social Aspect	
Pawel Kolakowski, Kamil Formela, Filip Bojić, Mislav Maljković and Lea Vojković	Understanding the Concept of Safe Distance in Maritime Navigation: Insights from Simulator-Based Training
Ilija Knežević, Nikola Marvučić, Nemanja Pudar, Ivana Čavor and Tatijana Dlabach	Implementation of Advanced Learning Methods in Maritime Education Through the UniTrain System for Enhancing the Teaching Practices of Process Measurement Variables
Igor Vorokhobin, Dmytro Zhukov, Igor Burmaka and Volodymyr Sikirin	Traditional methods to determine the ships position and Navigation Safety
Klaas De Hert, Deirdre Luyckx and Helen Verstraelen	Future-Proofing Nautical Sciences: Curriculum Reform at the Antwerp Maritime Academy
Ms.J Christalin Janet and Dr.C. Vairavan	Reading between the Waves: Improving Maritime English Comprehension through Innovative Teaching Strategies
Technological Aspect	
Yujin Ha, Jihyeok Yang and Junseong Kim	Proposals for revising STCW for Small Modular Reactors (SMR) powered vessels
Daniel Daneci Patrau, Anastasia Elena Duse and Radu Ioan Hanzu-Pazara	A Potential Framework for the Analysis of Cyber Resilience through the Perspective of Hybrid Threats
Khanssa Lagdami and Fabio Ballini	Global Readiness for Maritime Technological Transition: A Comparative Analysis between Different Regions
Shamji V R and Faisal Alsaq	Autonomous and AI-Driven Hydrography: Innovations for Sustainable Maritime Practices
Senka Šekularac-Ivošević, Dragana Milošević, Draško Kovač and Špiro Ivošević	Exploring a Framework for Maritime Education and Training Tailored to Professionals in Underwater Robotics
Prasanna Kumar Rajakumaran	Maritime Rescue Drones
Dr.Lakshmi D, Manimegala S, Padmashini R.K and Karthickmanoj R	Design of Hybrid Stand-Alone Power Generation System for Marine Applications
Pallab Das, Sanjampreet Singh, Prasheet Mishra, Vik Patra, Saswat Ranjan Barik and Pritam Pattanaik	Marine Microbial Fuel Cells (MFC) for Powering Seafaring Drones
Pradeep Raja C	Advancing Marine Safety: Biochar-Infused Epoxy Composites as High-Performance Flame-Retardant Materials
Kamelia Narleva and Yana Gancheva	Social Aspects of Digitalization in the Maritime Industry
Loren Steve Glumalid	Faculty and Student Feedback on the use of Online Platform and Its Impact on the Academic Performance in Collision Regulation
Ergün Demirel and Murat Saka	Use of Artificial General Intelligence in Maritime Autonomous Surface Ship System Development

AGA2025 – IAMUC

18th October, 2025, Friday



25th ANNUAL
GENERAL
ASSEMBLY
14th-18th OCTOBER, 2025

TECHNICAL TOUR



Time : 09:30 AM

Visit to AMET University & near by
Heritage places in Chennai*

*Detailed Schedule will be shared later

PROGRAM SCHEDULE FOR ACCOMPANYING PERSONS

16th - 17th October 2025

Detailed Schedule will be shared later



Next-Gen Maritime Education
Anchored in Safety, Cybersecurity,
and Crisis Readiness ...

Further details

Academy of Maritime Education and Training (AMET)

135, East Coast Road, Kanathur - 603112 | Chennai | India

+91 94447 52994 | aga25@ametuniv.ac.in

President, AGA25

Dr. G. Thiruvassagam | Phone: +91 95661 12211

Program Editor, AGA25

Dr. Deepa Rajesh | Phone: +91 80563 81238



<https://aga25.ametuniv.ac.in/gallery/>

Gallery

For photos, please refer

<https://aga25.ametuniv.ac.in/gallery/>

