

International Conference on Marine and Advanced Technologies (ICMAT 2025)

2nd September 2025 (DAY 1 - AFTERNOON)

ICMAT Session 1; Venue : Pinnacle 10 at Level M1, The Vertical

THEME: Marine Applications

Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
1415 – 1430	<p style="text-align: center;">KEYNOTE 1 - DR. ING. IR. SETYO NUGROHO</p> <p style="text-align: center;">TITLE - FROM RISK TO RESILIENCE: EMBRACING DIGITALIZATION TO UNLOCK THE FULL POTENTIAL OF MARITIME SOUTHEAST ASIA</p> <p style="text-align: center;"><i>(30 minutes for talk + 10 minutes for Q&A + 5 minutes buffer to next session)</i></p>			
1430 – 1445				
1445 – 1500				
1500 – 1515	<p style="text-align: center;">KEYNOTE 2 - ASSOC. PROF. TS. DR. NOOR AMILA</p> <p style="text-align: center;">TITLE - ENGINEERING THE END: A DECADE OF RESEARCH SHAPING SUSTAINABLE OFFSHORE DECOMMISSIONING IN SOUTHEAST ASIA</p> <p style="text-align: center;"><i>(30 minutes for talk + 10 minutes for Q&A + 5 minutes buffer to next session)</i></p>			
1515 – 1530				
1530 – 1545				
1545 – 1600				
1600 – 1615	Finite Element Analysis of Strength and Fatigue Crack Initiation in Fiberglass Hull Structures.	Roslin Ramli	MO - 35	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1615 – 1630	Sustainable Mega Data Management Strategies for AI-Driven Offshore Wind Energy and Exergy Prediction	Hamid Reda Soltani Motlagh	MO - 58	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1630 – 1645	Resistance, Propulsion and Waterjet-Engine Matching Analysis for a 16-Meter Fast Assault Craft for High-Speed Design Applications	Iwan Zamil bin Mustafa Kamal	MO - 79	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan

1645 – 1700	Assessment of Seakeeping and Maneuvering Performance of a Fishing Vessel Towing a Mid-Water Trawl	Thi Thanh Diep	MO - 861	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1700 – 1715	Towing Tank Experiments of Bare-Hull Resistance Characteristics of an 11-meter Fast Interceptor Craft including some CFD analysis and comparison.	Muhammad Izzat Amir Shaharin	MO - 78	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1715 – 1730	Designing an Economical Marine Transport Network for Coal Combustion Residue Utilization in the Cement Industry	Siti Dewi Lazuardi	MO - 66	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1730 - 1745	Comparative Study on Structural Stress Analysis Aluminium Boat Using Fibre Bragg Grating Application	Zulzamri Salleh	MO - 517	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan
1745 - 1800	Challenges, opportunities, and limitation in wave energy conversion: A comprehensive review for energy sustainability	Khairul Anuar Mat Saat	MO - 38	Assoc. Prof. Ts. Dr. Wardiah Mohd Dahalan

3rd September 2025 (DAY 2 - MORNING)

ICMAT Session 2; Venue : Pinnacle 8 at Level M1, The Vertical

THEME: Maritime Operation

Time (GMT +8)	Presentation Title	Presenter	Chairperson	Abstract ID
0900 – 0945	KEYNOTE 3 - ASSOC. PROF. TS. DR. MD REDZUAN ZOOLFAKAR TITLE - STCW IMPLICATIONS TOWARDS SUSTAINABLE MARITIME TRANSPORT <i>(30 minutes for talk + 10 minutes for Q&A + 5 minutes buffer to next session)</i>			
0945 – 1030	Appreciation Ceremony			
1030 – 1040	The Effect of Ease of Use and Information Quality on Ship Ticket Purchasing Decisions at Pt. Pelni through the Mobile Application	Nova Anastasya Tamba	Ts. Dr. Khairul Anuar Mat Saad	MO – 646
1040 – 1050	Data-Driven Estimation of Ship Emissions Using Multiple Linear Regression: A Case Study from Malaysian Ports	Noran Nur Wahida Khalili	Ts. Dr. Khairul Anuar Mat Saad	MO – 356
1050 – 1100	Enhancing Navigation Safety for Sustainance Inland Water Transport: A Case Study of Sarawak, Malaysia.	Khadijah Khalid	Ts. Dr. Khairul Anuar Mat Saad	MO - 44
1100 – 1120	Mechanical Characterization of New Marine Fiberglass/Pine Wood Waste Hybrid Composites Fabricated via Vacuum Infusion	Asmawi Ismail	Ts. Dr. Khairul Anuar Mat Saad	MO - 120
1120 – 1130	Optimizing Container Stacking Operations using AnyLogic Agent-Based Simulation	Muhammad Riduwan	Ts. Dr. Khairul Anuar Mat Saad	MO - 124
1130 – 1140	Identification of Important Green Port Determinants for Dry Bulk Terminals in Lumut Port	Aminuddin Md Arof	Ts. Dr. Khairul Anuar Mat Saad	MO – 41

1140 – 1150	The Effect of Digital Transformation and Competence on Employee Productivity in the Maritime Transportation Sector at PT Indonesia Kendaraan Terminal	Muhammad Thamrin	Ts. Dr. Khairul Anuar Mat Saad	MO – 617
1150 – 1200	The Reliability and The Limitations of Snowball Sampling Method: A Review.	Amayrol Zakaria	Ts. Dr. Khairul Anuar Mat Saad	MO – 494
1200 – 1210	Integrated Maritime Subsidized Transport Network Model Using a Hierarchical Transportation Network Approach and Genetic Algorithm	Naning Yuliana	Ts. Dr. Khairul Anuar Mat Saad	MO - 123
1210 – 1220	The Effect of Aloe Vera on a New Natural Capsaicin Marine Antifouling Coating Coated on Composite Fibreglass Surface	Asmalina Mohamed Saat	Ts. Dr. Khairul Anuar Mat Saad	MO – 110

3rd September 2025 (DAY 2 - AFTERNOON)

ICMAT Session 3; Venue : Pinnacle 8 at Level M1, The Vertical

THEME: Energy & Reliability

Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
1410 – 1420	Integrating IRIO and System Dynamics Models to Analyze the Regional Economic Impact of Subsidized Maritime (PSO) Connectivity in Eastern Indonesia	Ilham Muliana Rahman	MO - 122	Ismila Che Ishak
1420 – 1430	A Mixed Integer Quadratic Programming Approach for Integrated Quayside and Yard Planning in Container Terminals	Maulana Yafie Danendra	MO - 127	Ismila Che Ishak
1430 – 1440	Natural Capsaicin-Enhanced Rosin Coatings for Improved Antifouling on Mild Steel: An Immersion Study	Nurshahnawal Yaacob	MO - 81	Ismila Che Ishak
1440 – 1450	Assessing Key Logistics Services Factors Influence E-Commerce Satisfaction in Higher Education Consumers	Noorlee Bornadir	MO - 117	Ismila Che Ishak
1450 – 1500	Advancing the Evolution of Marine Antifouling Coatings Through Sustainable Solution Development	Vishantini Tangavaloo	MO - 640	Ismila Che Ishak
1500 – 1510	Effect of Grammage (GSM) and Density Properties on the Tensile Properties of Thermally Consolidated Nonwoven Kapok Fibre Mats	Muhammad Abdul Mun'aim Mohd Idrus	MO - 210	Ismila Che Ishak
1510 – 1520	Advancements in Underwater Mine Detection: A Comprehensive Review of Sensor Technologies, AI Algorithms, and Autonomous Systems	Wardiah Mohd Dahalan	MO - 293	Ismila Che Ishak
1520 – 1530	Optimization of blended leading-edge tubercle control surfaces for deeply submerged submarine	Syed Mohamad Najmi Syed Talib	MO - 94	Ismila Che Ishak

1530 – 1540	Impact of Wave Directions on Horizontal Connector Forces on the Forces on the Expansion Configuration of a Hexagonal Modular Floating Structure	Asmawi Abdul Malik	MO -126	Ismila Che Ishak
1540 – 1550	Conceptual Design for Liquefied Carbon Dioxide (LCO ₂) Carrier Vessel	Wasis Dwi Aryawan	MO - 966	Ismila Che Ishak
1550 – 1600	Deep Modeling and Filtering for Gaussian Discrete–Time Systems	Adi Novitarini Putri	MO - 961	Ismila Che Ishak
1600 - 1610	Strength Analysis of a Kevlar Composite Panel using Numerical Simulation	Septia Hardy Sujatanti	MO - 963	Ismila Che Ishak

3rd September 2025 (DAY 2 - AFTERNOON)

ICMAT Session 3; Venue : Pinnacle 7 at Level M1, The Vertical

THEME: Marine Applications, Energy & Reliability

Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
1410 – 1420	The Sensitivity Analysis on Decision Making Model of Significant Success Elements for Collaborative Efforts in Oil Spill Preparedness and Response in Malaysia.	Ismila Che Ishak	MO - 40	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1420 – 1430	The Challenges of Implementation Industrial Revolution (IR) 4.0 Technology in Malaysia's Ship Repair Industry	Muhammad Kassfi Ramli	MO - 50	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1430 – 1440	Floating Oscillating Water Column Wave Energy Converter Technology for Physical Model Testing	Rohaizad Hafidz Rozali	MO - 115	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1440 – 1450	Mobility-Driven System Architecture of Loading Software	Setyo Nugroho	MO - 254	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1450 – 1500	Optimization of Ship Fleet and Routes for Logistics Distribution Through the Sea Toll Program	Dhiya Bahrul Ilmi	MO - 618	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1500 – 1510	Integration of Conventional and Fuzzy Reliability with AHP for Spare Parts Optimization of Marine Vessels	Ahmad Fauzi Sagap	MO - 872	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1510 – 1520	Coupled Hydrodynamic Propulsion Analysis for Power Speed Optimization of Low Deadrise Monohulls with 115 hp Outboard Motors	Mustaffa Ali	MO - 108	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1520 – 1530	The Influence of Green Logistics Practices on Environmental Performance: A Case Study of Third-Party Logistics Providers in the Lumut Port Hinterland	Azila Ayub	MO - 51	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof

1530 – 1540	Effectiveness of Ballast Water Treatment at The Territorial and Internal Waters of Malaysia and Impact Towards Marine Ecosystem	Wan Ahmad Safwan Zakaria	MO - 54	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1540 – 1550	The Assessment of Wing Sail Designs in Driving Ship Using Wind Tunnel Test	Aries Sulisetyono	MO - 962	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1550 – 1600	Comparative Evaluation of FCAW and SMAW Welding Processes in Ship Block Construction using Integrated Value Engineering and Risk Assessment (VENRA) Framework	Imam Baihaqi	MO - 965	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof
1600 - 1610	Developing a Framework for Assessing Shipyard Capability in Passenger Ship Construction: From Vessel Requirements to KPIs	Imam Baihaqi	MO - 964	Assoc. Prof. Ts. Dr. Cdr. (Rtd). Aminuddin Md Arof