

# UK MARINE TECHNOLOGY POSTGRADUATE CONFERENCE 2025

17-18 June 2025



9:00-10:00	<b>Registration/Arrival/Refreshments</b>
10:00-10:20	<b>Welcome addresses</b>
10:20-10:40	<b>Industry keynote: Ruth Wood, CEO, Mersey Maritime</b>
10:40-12:00	<b>Session 1 – Maritime Logistics and Port Operations</b> <ul style="list-style-type: none"><li>- <i>Scheduled Service Network Design for Intermodal Sea-Freight Transportation</i> – <b>Fran Setiawan</b></li><li>- <i>A Safety-II-Based Hybrid Risk Analysis Framework for Seaport Operations</i> – <b>Massoud Mohsendokht</b></li><li>- <i>A Systematic Literature Review on Machine Learning-Enabled Optimization for Container Yard Management</i> – <b>Nazin Shokravi</b></li><li>- <i>Sustainable Intermodal Freight transport: Case Study Analysis of Ro-Ro Short Sea Shipping in the UK, Ireland, and the Wider Atlantic Europe Region</i> – <b>Ifeoluwa Deborah Adebayo</b></li></ul>
12:00-12:20	<b>Break</b>
12:20-13:00	<b>Session 2 – Ocean Observation &amp; Underwater Sensing</b> <ul style="list-style-type: none"><li>- <i>Temporal and Spatial Characteristics of Deep ocean Upwelling from 2003 to 2020: A Multisource Approach Using In-Situ and Satellite Data</i> – <b>Rikha Widiaratih</b></li><li>- <i>Automatic Seafloor Boulder Detection in Side-Scan Sonar Imagery</i> – <b>Michal Motylinski</b></li></ul>
13:00-14:00	<b>Lunch</b>
14:00-14:20	<b>Industry keynote: Jim Sibson, Head of Technology Research and Partnerships, Babcock</b>
14:20-15:40	<b>Session 3 – Ship Navigation and Autonomous Marine Systems</b> <ul style="list-style-type: none"><li>- <i>Vessel Trajectory Classification from a Graph Network Perspective</i> – <b>Nana Kutin</b></li><li>- <i>Real-Time Collision Risk Assessment for Maritime Autonomous Surface Ships Using Dynamic Bayesian Networks</i> – <b>Cihad Celik</b></li><li>- <i>Technology Evolution in Maritime Autonomous Systems: A Patent-Based Analysis</i> – <b>Mehdi Belabyad</b></li><li>- <i>Comprehensive ship path planning framework with heuristic optimisation and maritime route analysis</i> – <b>Lichao Yang</b></li></ul>
15:40-17:00	<b>Poster Session Includes drinks and light refreshments</b>
17:00-18:30	<b>Walking tour: Maritime history of Liverpool</b>
19:30	<b>Conference Dinner</b>

**Day 1 – Digitalisation, Autonomy, and Logistics  
in Future Maritime Operations**

**THE ORIGINAL**

**REDBRICK**



# UK MARINE TECHNOLOGY POSTGRADUATE CONFERENCE 2025

17-18 June 2025



8:40–9:00 **Registration/Arrival/Refreshments**

9:00–9:20 **Industry keynote: Alex Cousins , MD Alex Cousins Consulting**

9:20–10:20 **Session 4 – AI-Driven Innovation in Maritime Design and Energy Systems**

- *Application of an AI-based SADA method in the prediction of propulsion performance for wind-assisted propulsion vessels* – **Zhu Huang**
- *Deep reinforcement learning-based non-casual control for wave energy conversion* – **Vincentius Versandy Wijaya**
- *AI in Ship Design – Methodology* – **Nay Min Htein**

10:20–10:40 **Break**

10:40–12:20 **Session 5 – Hydrodynamics and Vessel Stability**

- *Direct Stability Assessment of Pure Loss of Stability on Small Fishing Vessel* – **Wira Syafruddin**
- *A Viscosity-equivalent Reduced order Method for Ship Seakeeping Problems* – **Yu Dong**
- *Construction of a Launch and Recovery Control System* – **Jiani Chen**
- *Kelvin Waves Collide: Insights into Wave Interference Phenomena* – **Boyu Liao**
- *Full-Scale CFD Study on Hydrodynamic Impact of Hull-Mounted galvanic Anodes on Ship Energy Efficiency* – **Runzi Zhao**

12:20–13:20 **Lunch**

13:20–13:40 **Industry keynote: Nishat Deshmukh, Director Area Head of Finance, Maersk UK & Ireland**

13:40–14:40 **Session 6 – Three Minutes Thesis**

14:40–15:30 **Break**

**Workshop (TBD)**

15:30–16:00 **Closing address and prizes**

**Day 2 – Maritime System Design,  
Hydrodynamics, and Vessel Performance**

**THE ORIGINAL**

**REDBRICK**