



UK National
Clean Maritime
Research Hub

Clean Maritime Assembly 2026

Durham University

24 & 25 June 2026



Engineering and
Physical Sciences
Research Council



Funded by
UK Government

Time	'Highlights and Headlines' Programme		'Academic Insights' Programme		'Beyond the Horizon' Programme	
	Day 1	Day 2	Day 1	Day 2	Day 1	Day 2
08:30 – 09:00	Arrival & Registration					
09:00 – 09:30	Opening Address					
09:30 – 09:55	Keynote: Jo North, Harwich Haven Authority	Keynote: Claudene Sharp-Patel, Lloyds Register				
10:00 – 11:15	Session 1 – Technology & Innovation *Kassie Cigliana, MCA *Simon Graham, De Courcy Alexander *Aleksandra Adamowicz, Coltraco Ultrasonics	Session 1 – Enabling the Clean Maritime Transition *Daniel Barton, The Waves Group *Elaine Scott, Port of Tyne *Richard Osborne, Ricardo	Session 1 – Economics, Technology & Systems Perspectives *Dr Ioannis Moutzouris, City St. George's *Dr Janie Ling-Chin, Durham *Prof Alice Larkin, Manchester	Session 1 – Integrated Maritime Power Systems *Dr Tao Yang, Nottingham *Dr Ebrahim Nadimi, Durham *Prof Xinyan Wang, Brunel	Session 1 – DNV Spadeadam: Advancing the Maritime Energy Transition Through Large-Scale Testing Hosted by Mike Johnson, DNV	Session 1 – Nuclear Energy – the Panacea for a UK Maritime Renaissance? Hosted by Richard Dinsdale, Assystem
11:15 – 11:45	Break					
11:45 – 13:00	Session 2 – AI, Digitalisation & Data *Christopher Nathan, Alan Turning Institute *Robbie O'Neill, Ada Mode *Tim Munn, Marine Zero	Session 2 – Risk & Asset Management *Sujit Viswanatha, DNV *Moya Crawford, D'Arcy Thompson Simulator Centre *Sarah McCann, NorthStandard	Session – Engineering Future Vessels: Safety, Efficiency & Innovation *Dr Sergii Kashkarov, Ulster *Prof Thanos Tsolakis/ Prof Pietro Tricoli, Birmingham *Prof Zhiqiang Hu, Newcastle	Session 2 – The Clean Energy Transition *Dr Jonathan Wellings, Sheffield *Prof Jean-Baptiste Soupez, Birmingham City *Dr Lee Durndell, Plymouth	Session 2 – Fuels and Geopolitics Hosted by the Hub's Policy Unit, led by Dr Claire Copeland	Session 2 - 'Could liquid hydrogen demonstration unlock the next era of UK maritime growth?' Hosted by Durham University, led by Prof Andrew Smallbone
13:00 – 14:15	Lunch					
14:15 – 14:40	Keynote: Patricia Thornley, Department for Transport	Keynote: Catriona Savage, BMT				
14:45 – 16:00	Session 3 – Skills & Workforce Development *James Tagg, South Shields Marine School *John Chudley, MLA College *Damoon Razmjooei, Solent Southampton University	Session 3 – Decarbonisation in Practice *Francesco Sandrelli, UK Chamber of Shipping *David Browbank, Brookes Bell *Ralitsa Mihaylova, Safinah Ltd.				
16:00 – 16:15	Quick Break & Back to the Main Stage					
16:15 – 16:45	Impromptu Panel: Voices from Across the Assembly					
16:45 – 17:00	Feedback in 5 & Closing Remarks					
17:00	Assembly Close – Day 1	Assembly End				
17:15 – 19:30	Evening Reception & Entertainment					

'Highlights and Headlines' Programme (Lecture Theatre TLC042)

Day 1	Day 2
Keynote 1: Jo North – CEO, Harwich Haven Authority	Keynote 1: Claudene Sharp-Patel – Global Technical Director, Lloyds Register
<i>“Shaping the future of clean maritime innovation”</i>	<i>“Enabling the Clean Maritime Transition”</i>
Session 1: Technology & Innovation	Session 1: Enabling the Clean Maritime Transition
Chair: Dr Thomas Beard, BMT	Chair: Dr Janie Ling-Chin, Durham University
Kassie Cigliana, Maritime and Coastguard Agency <i>“The UK Maritime Innovation Hub: The MCA’s new offer to innovators, technology developers and researchers”</i>	Daniel Barton, The Waves Group <i>“Alternative Fuels – An Operational Perspective”</i>
Simon Graham, De Courcy Alexander <i>“Innovation and Commercialisation”</i>	Elaine Scott, Port of Tyne <i>“Decarbonisation at ports – opportunities and challenges”</i>
Aleksandra Adamowicz, Coltraco Ltd <i>“Technology and Innovation: Developing an Ultrasonic Monitoring System for Ammonia Fuel Tanks”</i>	Richard Osborne, Ricardo <i>“Sustainable Fuels for Maritime Engines – Developing High-Pressure Dual-Fuel Combustion Systems”</i>
Session 2: AI, Digitalisation & Data-Driven Decision Making	Session 2: Risk & Asset Management
Chair: Prof Ying Xie, Cranfield University	Chair: Dr Ioannis Moutzouris, City St. George’s University of London
Christopher Nathan, Alan Turning Institute <i>“Maritime Data Collaboration”</i>	Sujit Viswanathan, DNV <i>“Future Fuels: Navigating Real, Manageable Risks”</i>
Robbie O’Neill, Ada Mode <i>“Taking up the Slack: Bringing AI to Bear”</i>	Moya Crawford, D’Arcy Thompson Simulator Centre <i>“Emergency Response / Wreck Removal / End of Life Fate of Vessels powered by and/or containing ‘Alternative Fuels’”</i>
Tim Munn, Marine Zero <i>“The Missing Link in Maritime Decarbonisation: Visibility, Insights and Efficiency”</i>	Sarah McCann, North Standard <i>“Navigating Decarbonisation: The Insurer’s Perspective”</i>
Keynote 2: Prof Patricia Thornley, Chief Scientific Advisor, Department for Transport	Keynote 2: Catriona Savage – Global Technical Director, BMT
<i>“DfT CSA Keynote”</i>	<i>“Beyond Cleaner Seas: Putting People at the Heart of Maritime Innovation”</i>
Session 3: Skills & Workforce Development	Session 3: Decarbonisation in Practice
Chair: Eamonn Beirne, Department for Transport	Chair: Dr Claire Copeland, Durham University
James Tagg, South Shields Marine School <i>“Skills & Workforce Development for Alternative Fuels”</i>	Francesco Sandrelli, UK Chamber of Shipping <i>“Decarbonisation Overview and Safety of Alternative Fuel Working Group”</i>
John Chudley, MLA College <i>“Clean Maritime Needs New Skills; But Do We Have the Right Education Models?”</i>	David Browbank, Brookes Bell <i>“Managing Risk in Marine Biofuels”</i>
Damoon Razmjooei, Solent Southampton University <i>“Workforce Transformation in Maritime Autonomous Ships”</i>	Ralitsa Mihaylova, Safinah Ltd. <i>“Energy Efficiency and Biofouling Management: Bridging the Gap Between Strategy and Practice”</i>

‘Academic Insights’ Programme (Lecture Theatre TLC033)

Day 1	Day 2
Session 1: Economics, Technology & Systems Perspectives	Session 1: Integrated Maritime Power Systems
Chair: Dr Vishnu Pusarapu, Durham University	Chair: Dr Sumit Roy, Coventry University
Dr Ioannis Moutzouris, City St. George’s University <i>“Stepping Stone or Stumbling Block? How intermediate technologies shape the adoption of clean energy in the global shipping industry”</i>	Dr Tao Yang, Nottingham University <i>“From MW-level Electrical Propulsion to System Integration”</i>
Dr Janie Ling-Chin, Durham University <i>“Maritime Energy and Emissions Model”</i>	Dr Ebrahim Nadimi, Durham University <i>“Multi-Objective Optimisation of Hydrogen and Methanol-based Hybrid Power Systems for Service Operation Vessels (SOV)”</i>
Prof Alice Larkin, Manchester University <i>“Opportunities & Challenge Across the Shipping System”</i>	Prof Xinyan Wang, Brunel University <i>“Advanced Propulsion Technologies for Maritime Decarbonisation Using Hydrogen and Derived Fuels”</i>
Session 2: Engineering Future Vessels: Safety, Efficiency & Innovation	Session 2: The Clean Energy Transition
Chair: Dr Mengda Wu, Birmingham University	Chair: Dr Alessandro Giampieri, Durham University
Dr Sergii Kashkarov, Ulster University <i>“Hydrogen storage safety under fuelling, release, ventilation and fire conditions”</i>	Dr Jonathan Wellings, Sheffield University <i>“Breaking old habits: marine fuel switching for cargo vessels”</i>
Prof Pietro Tricolo, Birmingham University <i>“DC Electrification and Hybrid Battery-Supercapacitor Storage for Maritime Electrical Power Systems”</i>	Prof Jean-Baptiste Soupez, Birmingham City University <i>“Wind-Assisted Ship Propulsion”</i>
Prof Anthanasios Tsolakis, Birmingham University <i>“Future Marine Engines: Cleaner Fuels, Fuel Reforming and Catalytic Technologies”</i>	
Prof Zhiqiang Hu, Newcastle University <i>“Vessel Design, Efficiency & Innovation in Action – Theme 4 at Newcastle University”</i>	Dr Lee Durndell, Plymouth University <i>“Clean Maritime in Practice: Plymouth a Living Laboratory for Vessels, Energy, Data and Regulation”</i>
Session 3: Advancing Marine Propulsion	Session 3: Smarter Shipping: Ports, Scheduling & Wind-Assisted Propulsion
Chair: Dr Richard Williams, Durham University	Chair: Dr Huashan Bao, Durham University
Dr Neeraj Yadav, Nottingham University <i>“Practical Retrofit Pathways to Net-Zero Marine Propulsion: Methanol and Zero-Carbon Fuel Blends”</i>	Prof Dongping Song, Liverpool University <i>“Viability of Rerouting Deep-Sea Container Services to Regional Ports in a Decarbonising World”</i>
Prof John Irvine, St Andrews University <i>“Fuel-Flexible Solid Oxide Fuel Cells: For Marine Propulsion”</i>	Dr Asefe Forghani, Cranfield University <i>“Energy-aware scheduling and berth allocation for ferries under phased cold ironing upgrades”</i>
Dr Cliff Dansoh, Brighton University <i>“Clean hydrogen engine: A unique look into the high-efficiency low-Nox process”</i>	Prof Jean-Baptiste Soupez, Birmingham City University <i>“Navigating Maritime Decarbonisation: A Systematic Review of Technologies, Measures and CO₂ Reduction Potential”</i>

‘Beyond the Horizon’ (Various Rooms)

Day 1	Day 2
<p>Session 1: DNV Spadeadam: Advancing the Maritime Energy Transition Through Large-Scale Testing (Room TLC113)</p>	<p>Session 1: Nuclear Energy – the Panacea for a UK Maritime Renaissance? (Room TLC113)</p>
<p>‘Alternative fuels bring new flammability and toxicity risks to maritime operations. This session shows how large-scale experiments help understand, and manage, these hazards.’</p> <p><i>Hosted by Mike Johnson, VP Senior Principal Consultant – Laboratories and Testing, Energy Systems, DNV</i></p>	<p>‘Interactive session examining whether nuclear energy could unlock a new era of UK maritime growth through decarbonisation, innovation and industrial renewal.’</p> <p><i>Hosted by Richard Dinsdale, Strategic Pursuits and Programme Director – Fusion and Modular Nuclear, Assystem</i></p>
<p>Session 2: Fuels & Geopolitics (Room TLC106)</p>	<p>Session 2: Liquid Hydrogen Research & Innovation Facility Showcase (Room TLC123)</p>
<p>‘An interactive session exploring future fuel scenarios, emerging geopolitics, and the associated risks and opportunities for the UK.</p> <p>The session will open with scene-setting presentations from Professor Gavin Bridge (Durham University), Professor Rachael Rothman (University of Sheffield), and Mike Green (World Fuel Services), followed by facilitated discussion’</p> <p><i>Hosted by the Hub’s Policy Unit, led by Dr Claire Copeland, Durham University</i></p>	<p>‘Could liquid hydrogen demonstration unlock the next era of UK maritime growth? This interactive session brings together leading figures from across maritime, hydrogen and industrial innovation to explore its potential as a fuel for the sector’</p> <p><i>Hosted by Durham University, led by Prof Andrew Smallbone, Deputy Director of Research</i></p> <p><i>Speakers include:</i></p> <ul style="list-style-type: none"> ▪ Padmini Mellacheruvu, Lloyds Register ▪ Mike Johnson, DNV ▪ Junaid Haider, Durham University ▪ Oliver Dhez, Absolut Systems

Session Chairs

A big shout out to our session Chairs, across the 2 days! We are very grateful for their support.

Day 1	Day 2
<p>Highlights and Headlines Programme</p> <p>Session 1 – Technology & Innovation: Dr Thomas Beard, BMT</p> <p>Session 2 – AI, Digitalisation & Data-Driven Decision Making: Prof Ying Xie, Cranfield University</p> <p>Session 3 – Skills & Workforce Development Eamonn Beirne, Department for Transport</p>	<p>Highlights and Headlines Programme</p> <p>Session 1 – Enabling the Clean Maritime Transition: Dr Janie Ling-Chin, Durham University</p> <p>Session 2 – Risk & Asset Management: Dr Ioannis Moutzouris, City St George’s University of London</p> <p>Session 3 – Decarbonisation in Practice Dr Claire Copeland, Durham University</p>
<p>Academic Insights Programme</p> <p>Session 1 – Economics, Technology & Systems Perspectives: Dr Vishnu Pusarapu, Durham University</p> <p>Session 2 – Engineering Future Vessels: Safety, Efficiency & Innovation: Dr Mengda Wu, Birmingham University</p> <p>Session 3 – Advancing Marine Propulsion: Dr Richard Williams, Durham University</p>	<p>Academic Insights Programme</p> <p>Session 1 – Integrated Maritime Power Systems: Dr Sumit Roy, Coventry University</p> <p>Session 2 – The Clean Energy Transition: Dr Alessandro Giampieri, Durham University</p> <p>Session 3 – Smarter Shipping: Ports, Scheduling & Wind-Assisted Propulsion: Dr Huashan Bao, Durham University</p>

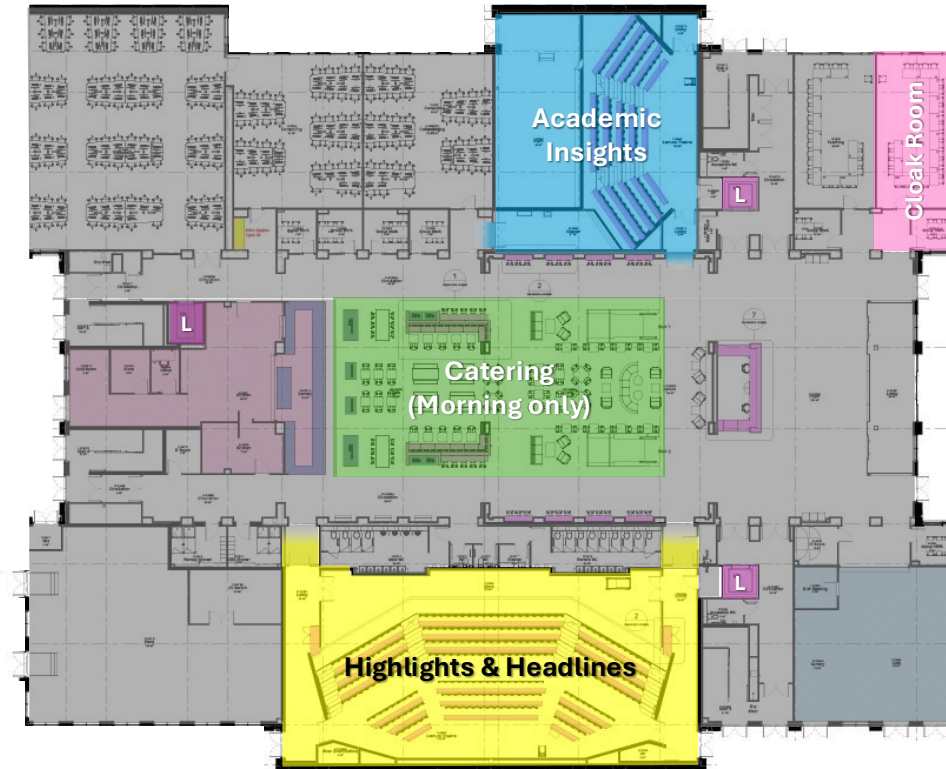
Useful Information

Maps of the venue

Ground Floor

Key

L Lift



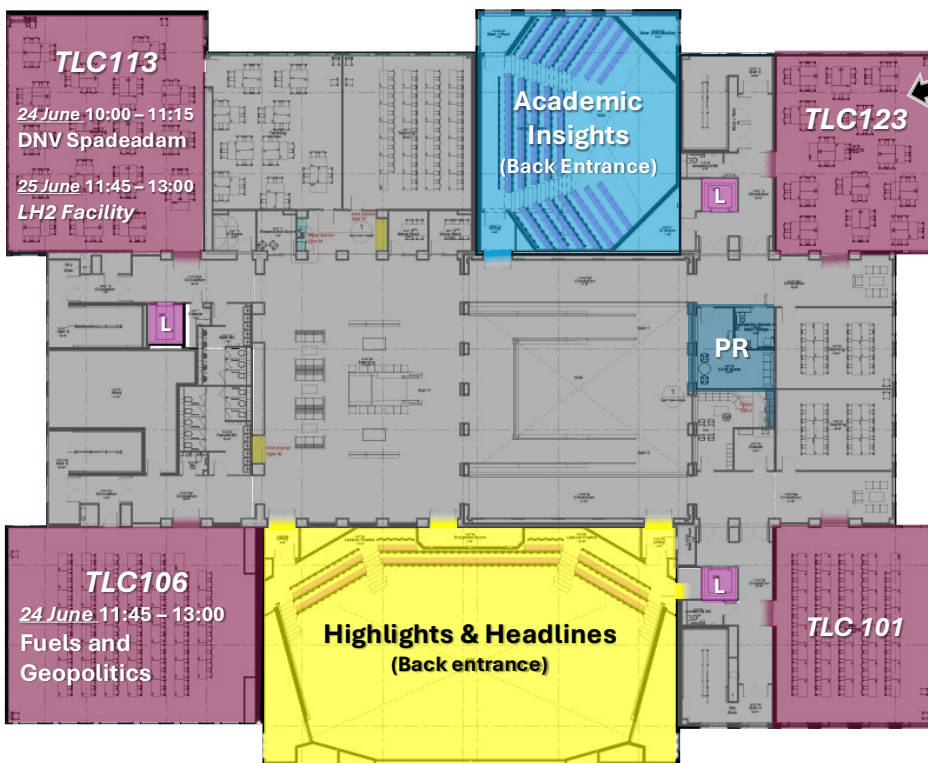
Bathrooms are located throughout the building; accessible bathroom facilities are located next to lifts.

First Floor

Key

L Lift

PR Prayer Room



Bathrooms are located throughout the building; accessible bathroom facilities are located next to lifts.

Prayer Space (TLC126)

A dedicated prayer and reflection room is available throughout the event for all delegates (Map ref: PR).



Second Floor

Key



Bathrooms are located throughout the building; accessible bathroom facilities are located next to lifts.

Taxi Information - Useful numbers

Airport Express: +44 (0)191 3712351 (09:00 – 20:00)

After 20:00: +44 (0)7936585799 / +44 (0)7867617266

Email: airport365@live.co.uk

Airport Taxis Durham: +44 (0)191 394 2468

Mac's Taxis: +44 (0)191 384 1329 pr +44(0)191 3723786

Paddy's Taxis: +44 (0)191 386 6662

Polly's Taxis: +44 (0)7093302572

Pratt's Taxis: +44 (0)191 386 4040 or +44 (0)191 386 0700

Sherburn Taxis: +44 (0)191 372 3388



Clean Maritime Assembly 2026 is taking place at:

Teaching and Learning Centre
 Durham University
 South Road
 Durham
 DH1 3LS
 Tel: +44 (0)191 334 5357





TheCloud@Durham

Visitors and non-academic guests should use 'TheCloud@Durham' to connect to the wireless service when visiting Durham University

About "TheCloud"

'TheCloud' is a free public access wireless service with thousands of hotspots and millions of registered users, it provides simple, fast and reliable wireless Internet access

'TheCloud' service is available for Android, iOS, Windows and Mac devices.

Get Connected

To connect to 'TheCloud@Durham' simply follow the steps below:

1. Switch on your smartphone, tablet or other Wi-Fi device and check that Wi-Fi is enabled.
2. Select 'TheCloud@Durham' from the available network list
3. Open your Internet browser - 'TheCloud' landing page below will appear. Click 'Get Online'.
4. You will then see the service selection screen. Select 'The Cloud Wi-Fi'.
5. Once this is done you can either login with an existing 'TheCloud' account, or click on the 'Create Account' button to register for a free account.
6. Once you have logged in or registered you will be able to access the Internet using 'TheCloud@Durham'.

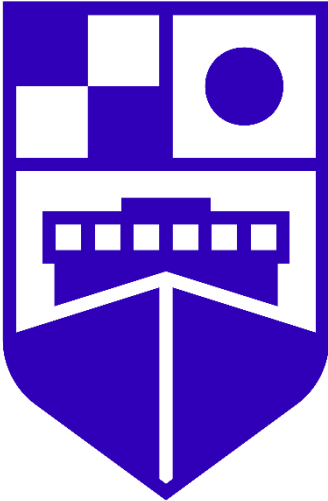
Security

For details on 'TheCloud' Wi-Fi Security', please visit this link <https://www.skywifi.cloud/wifi-security/>

Support

If you experience problems connecting to "TheCloud@Durham" please contact the IT Service Desk on 0191 334 1515

Follow this link: <https://www.skywifi.cloud/faqs-support/> for FAQs



About the UK National Clean Maritime Research Hub

Our Partnerships:

Funded by the Engineering and Physical Science Research Council, the Department for Transport's UK SHORE programme and industry, the UK National Clean Maritime Research Hub (UK-MaRes Hub) is a consortium of 14 universities, led by Durham University in collaboration with the universities of Aston, Birmingham, Birmingham City, Brighton, City St George's, Cranfield, Liverpool, Newcastle, Nottingham, Sheffield, Solent Southampton, St Andrews and Ulster.

Our Vision:

Our vision is to go beyond conventional marine engineering and naval architecture to create a pioneering research hub, providing technically, environmentally, socially and economically informed pathways to decarbonise the maritime sector.

We are also supported in this endeavour by over 100 industrial, civic and international partners.

To find out more:



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Visit us on LinkedIn



www.clean-maritime-research-hub.org