

Conference Speakers & Chairs

Dr Thomas Beard (Keynote)

Thomas is a chartered engineer and the Clean Shipping Lead at BMT. He has a PhD in Hydrogen Safety from Loughborough University, following this he has spent several years in industry working on a variety of aspects of ship and submarine design and build.

As well as being a member of the MariNH₃ steering group; he is also the co-chair of the National Maritime Hydrogen & Future Fuels working group, a member of the Maritime UK H₂ group and on the Industry Advisory Board for Ocean-REFuel.



Dr Steven Begg (Chair)

Steven is a Reader in Mechanical Engineering at the University of Brighton. His research focus is on the study of thermodynamics and fluid mechanics applied to future powertrains and wider engineering fields:

- Fluid mechanics of liquid sprays, particle-laden and two-phase flow systems.
- Thermodynamics of combustion, emissions, propulsion and energy systems, incorporating experimental and simulation methods.
- Application and development of experimental laser and optical measurement techniques.



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His current research investigates an advanced pre-chamber technology (Jet Ignition), aiming to enhance combustion characteristics and emissions profiles under various fuel combinations (co-fuelling) in positive ignition engines, for future thermal propulsion systems.



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He has successfully delivered technology readiness levels 2 to 8 projects in energy conversion, energy storage and sustainable fuels, via simulation and experimental methods applied to transport and stationary applications. He has concept-to-commissioning experience on new large-scale energy recovery test facilities, and operational experience on advanced heavy-duty research engines.



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