



Focus on Sub IMO / Sub 24m Professional Craft

International Group - Workshop via Zoom

12.00 to 17.00 (UK)

13.00 to 18.00 (EU)

07.00 to 12.00 (US EST)

Relevant to Professional – Commercial – Military

End-user Organisations • Operators • Boat Builders • Refit Yards
OEM Manufacturers • Engineers • Naval Architects • Designers
Classification • Legislators • Ports • Harbours • Marinas

Next Generation Energy – Power – Propulsion

Ferries • Work Boats • Pilot Boats • Offshore • Wind Farm Support
Search & Rescue • Military • Patrol Craft • Police & Security
Training • Charter • Superyacht Tenders

Supporters



NEXT GEN HYDROGEN Workshop: Standard Rate £120

Military / Government / Academia / Ports / British Marine

RINA / IMarEST / UKHMA: Discount Rate £95

For further information:

Event Manager - Claire Donnelly

claire@shockmitigation.com

+44 (0)7709 675258

www.nextgen-marine.com

THEME: Why Marine Hydrogen Technology Readiness Levels are Accelerating	
11:45 – 12:00	Log on and Join the Group
HYDROGEN Energy Carrier - Fuel Cell - Technology	
12:00 – 12:10	John Haynes - Workshop Lead Workshop Aims & Objectives / Global & Sector Opportunities
12:10 – 12:35	Prof Alasdair Cairns - Chair of Propulsion Systems, University of Nottingham Hydrogen Fuel & Energy for Ships & Boats - From Ammonia & Methanol to Gas & Solid State
12:35 – 13:00	Dr. Thomas Beard - Senior Analysis Engineer, BMT UK Vessel Design for Safe Integration of Hydrogen and its Derivatives
13:00 – 13:25	Dr Cedric Rouaud - Director Fuel Cell Systems, Bramble Energy Developing Fuel Cells for Maritime and Inland Waterway Applications
13:25 – 13:45	Panel Discussion - Q & A Session Types of Hydrogen / Transport & Storage / Emerging Technology
13:45 – 14:00	Break
HYDROGEN Dual Fuel - Flexi Fuel - Mono Fuel	
14:00 – 14:25	Trevor Jasper - Director of Advanced Research and Development, CMB.TECH Developing Mobile Hydrogen Fueling Stations for Marine Operations
14:25 – 14:50	Ed Newman - Chief Engineer, Clean Air Power Practical Hydrogen Fuel Technology for Internal Combustion Engines
14:50 – 15:15	Albert Willemsen - Environment & Sustainability / John Haynes - MD, NEXT GEN Marine International Hydrogen Strategies are Evolving / Vessels go from Concepts to Applications
15:15 – 15:30	Break
HYDROGEN Safety - Classification - Regulation	
15:30 – 15:45	Peter Van de Graaf - Decarbonisation Business Development Manager Lloyd's Register view on Hydrogen Rules & Guidance
15:45 – 16:00	Kirk Waltz - Dir, Government Services Business Development - Clean Energy Transition ABS - American Bureau of Shipping view on Hydrogen Rules & Guidance
16:00 – 16:15	Kai Reichelt - Marine Engineer - Business Development Manager Testing RINA view on Hydrogen Rules & Guidance
16:15 – 16:45	Q & A Session - Compliance Organisations How do we classify Hydrogen vessels? / What are the Obstacles & Barriers?
16:45 – 17:00	End of Day Closing Remarks and Next Steps
17:00	Finish & Download CPD Certificate

The EU and UK Hydrogen Strategy - adopted in 2021 - aims to accelerate the development of clean Hydrogen.

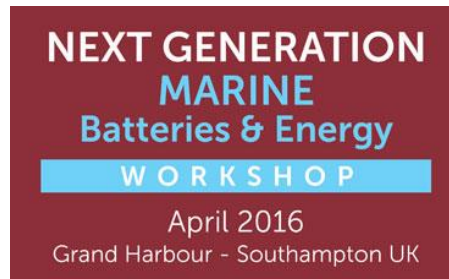
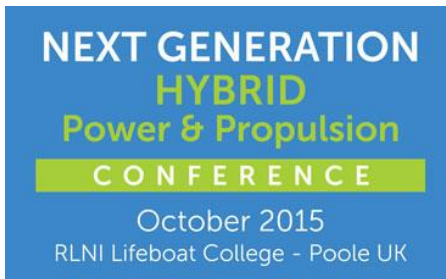
NEXT GEN Marine HYDROGEN enables attendees to learn how and why Hydrogen is gaining momentum.

Hydrogen technology looks at how marine can identify viable solutions for various applications.

Hydrogen Infrastructure will need rapid investment - with focus on flexibility and safety.

The United States is leading the way with multi billion dollar Hydrogen subsidies.

NEXT GEN Marine Energy - Shaped By Experience



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