



Grand Harbour Hotel – Southampton UK

KNOWLEDGE & NETWORKING

Relevant to Professional - Commercial - Military:

End-user Organisations // Operators // Boat Builders
Engine Manufacturers // Mechanical & Electrical Engineers
Naval Architects // Maritime Legislators // Government Bodies

Future Requirements and New Technology for:

Work Boats // Pilot Boats // Search & Rescue
Patrol Craft // Wind Farm Support // Survey Vessels
Superyacht Tenders // Autonomous Vessels www.shockmitigation.com

TWO DAY CONFERENCE – Standard rate: £390 +vat

British Marine / RINA / UKMPA / UKHMA / YBDSA / SSA rate: £350 +vat
Military / Government / Academia / SAR rate: £300 +vat

Sponsored by:



EnerDel designs, builds and manufactures lithium-ion energy storage solutions and battery systems with a focus on heavy-duty transportation, on and off grid electrical, mass transit and task-oriented applications.

To book a place or for further information:

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www.hybridmarine-power.com

**NEXT GENERATION
MARINE
Power & Propulsion
CONFERENCE
18 & 19 April 2018**

| NEXT GEN Power Conference - Weds 18 & Thurs 19 April – Southampton | | |
|---|--------------------------------------|-------------------------|
| TIMING: | Registration & Coffee 08.30 to 09.00 | WORKSHOP 09.00 to 17.00 |
| Rear Admiral Nick Lambert The Blue Economy Needs Innovative Marine Power and Energy Solutions | | |
| Captain Muhammad Shafique - Senior Lecturer, Petrochem - Warsash Maritime Academy Alternative Fuels for Propulsion and Emissions Control | | |
| James Fanshawe CBE - Chairman, Maritime Autonomous Systems Regulatory Working Group Power and Propulsion Requirements for Autonomous Vessels and Smart Port Energy | | |
| Jonathan Ridley - Head of Engineering, Warsash School of Maritime Science and Engineering Experience of Testing Novel Hull Forms and Propulsion Systems for Sub IMO Vessels | | |
| Julian Morgan - Technical Director, KPM Marine Energy Efficiency by Design to Reduce Vessel Weight and Power Requirements | | |
| PANEL DISCUSSION: 'How Can We Save Fuel and Reduce Emissions?' | | |
| John Haynes - Managing Director, Shock Mitigation Hybrid Technology and The Hour Of Power for Workboats, Patrol Vessels and Superyachts | | |
| Dr John T. Warner - CMO, EnerDel Maritime Energy Storage Systems - Taking Advantage of Cross Market Learnings to Speed Time to Market | | |
| Graeme Hawksley - Managing Director, Hybrid Marine Developing a Commercial Passenger Fleet Utilising Hybrid Battery - Electric Systems | | |
| Dr Dennis Doerffel - Founder & Chief Technology Officer, REAP Systems Designing and Integrating Diesel - Battery - Electric Solutions for Commercial Craft | | |
| PANEL DISCUSSION: 'How Do We Integrate and Pay For Hybrid Systems?' | | |
| Please Note: Further Presentations TBC. Updates & changes may be made to this agenda. | | |
| NETWORKING: | 1 Hour Lunch & 2 Half Hour Breaks | CPD Certificate |

DAY 1 looks at improving Diesel Engine Efficiency and increasing performance across the powertrain to give fuel savings and reduce emissions. **Here & Now Technology** looks at how industry is adopting viable solutions today. **Next Generation Systems** are within a few years of commercial release. Innovative young designers are pushing the boundaries forward and creating a realm of new possibilities.

DAY 2 focusses on Hybrid Systems that are now commercially available and operating successfully around the world. **Fuel Cells** bring crossover technologies from automotive. The maritime sector can also learn from aviation, space and sub-sea power. **Autonomous Vessels** will require low maintenance power and propulsion systems. **CFD modelling and testing** is leading to improved hulls and propulsion systems.

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John Haynes AFNI RINA – Conference Chairman

All sectors are invited to participate in this unique event that focuses on viable energy solutions for sub IMO / sub 24 metre vessels. As most new power and propulsion technology is proving to be scalable this knowledge is becoming increasingly relevant to vessels of all sizes. The 2018 programme builds on our experience from four previous NEXT GEN power events and working with literally hundreds of industry experts globally.

It is clear that emerging technologies including the use of electric drives linked to lithium-ion batteries, along with the arrival of fuel cells and autonomous systems, are accelerating major changes for marine operations. Hybrid systems are now commercially available and operating successfully around the world. Tenders are coming out for hybrid vessels as port cities including London, Paris and Amsterdam look at rapidly reducing emissions.

Armed with the latest knowledge from around the world this international group will identify the viability of utilising innovative power systems. For commercial, professional and military organisations the unique knowledge gained from presentations and networking sessions will help to shape long term decisions that lead to improvements for in-service systems and procurement of next generation vessels.

We know that having the right people onboard is essential and there is no substitute for meeting the experts face to face. Our objective is to bring together a dynamic marine industry group and highlight viable innovation. This is not just green energy for the sake of it as presentations will show how fuel can be saved, maintenance costs reduced and engine life extended.

NEXT GENERATION Conference Supporters



NEXT GEN Conferences Focus on Viable Technology & Efficient Solutions

NEXT GEN events provide an independent platform where maritime organisations can address relevant issues and share knowledge between sectors. Feedback has been excellent from the marine industry and end-users.

www.hybridmarine-power.com