

Join us for the 21st year of Seawork!

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JULY 2018 | Mayflower Park
Southampton UK

sea WORK 2018 INTERNATIONAL

NEW for 2018!

Two half day conference sessions to be held within the Knighthood Conference Village on-site at Seawork International

Wednesday, July 4th, 2018

Morning

Unmanned Surface Vessels - Commercial applications for unmanned vessels

Afternoon

Hybrid marine propulsion - The drive for change



Seawork Commercial Marine Conference

Europe's largest and only on-water commercial marine and workboat exhibition. Over 70 vessels and floating plant. European Commercial Marine Awards (ECMAs) and Innovations Showcase. Show your latest innovations in vessels, equipment and services to over 7,600 maritime professionals.

Conference Programme Provisional



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WEDNESDAY JULY 4th 2018 - USV - Commercial Applications for Unmanned Vessels

- 09:00 Welcome Address: Chairman Dan Hook, Senior Director - Business Development, ASV**
- 09:05 "Emerging vision for smart shipping and regulation progress"**
Dr Katrina Kemp, Smart Ships & Automation Policy Officer, MCA
"Autonomous and smart shipping is advancing quickly. Regulators need to enable innovation while ensuring safe, secure and environmentally sound operation. Katrina will describe early progress on regulation, both nationally and internationally."
- 09:25 "Long range, long endurance USV operations – the challenges"**
Ifor Bielecki, Director, Sea-Kit
"To truly maximise the real benefits of unmanned surface operations, there is a need to take advantage of the very nature of an uncrewed vessel by remaining offshore for long periods and operating in a way that crewed vessels cannot do without placing human crew in harm's way or creating a working environment that is unsustainable."
- 09:45 "Southampton Solent University and Rolls-Royce launched collaborative Research and Development (R&D) to support the unmanned and partially autonomous operation of marine vessels"**
Gordon Meadow, Associate Professor, Warsash School of Maritime Science and Engineering
"Running from Autumn 2016 to Spring 2018, the focus was on applying immersive technologies to enable the engineering crew to perform typical duties required for continuous vessel operation at a remote location rather than in situ."
- 10:05 "Bo – A conditionally and periodically unmanned bridge "**
Philip Lawson, General Manager – Marine and Ports UK, ABB
"The recent development in sensor technology, data analytics and computing power enables to increase the level of automation in ship navigation, steering and control. As a basic definition an autonomous vessel is not necessary unmanned but an unmanned vessel is, by default, autonomous to a high degree."
- 10.25 "USV and GPS denial"**
Hongjie Ma, Research Fellow with the Institute of Industrial Research & **David Brown**, Director of the Institute of Industrial Research, University of Portsmouth
"UNMANNED systems such as Unmanned Ground Vehicles (UGVs), Unmanned Aerial Vehicles (UAVs) and Unmanned Surface Vessels rely on satellite derived information from global positioning system (GPS), and this information is crucial element for the automated operations of these unmanned systems."
- 10:45 Break**
- 10:55 "Liability Risks and insurance solutions for autonomous vessels"**
Paul Grehan, Underwriting Deputy Syndicate Manager – Americas, The Ship Owners' Club
"The introduction of autonomous vessels into commercial operation poses challenges and risks for ship owners and operators. How will the liability risks owners face change and how can their insurers help?"
- 11:15 "The Robots are coming! Autonomous systems to support offshore renewable operations"**
Simon Cheeseman, Sector Lead, Wave & Tidal Energy, Offshore Renewable Energy Catapult
"The UK Government's £90million Industrial Strategy Challenge Fund recognises the importance of developing Robotics and Artificial Intelligence for extremely harsh environments and the need to develop UK specific skills and related technology."
- 11:35 "The AEUK approach to modular unmanned systems"**
Sarah Brown, BA(Hons) Oxon, MIMA, CMath, Product Manager, AEUK
AEUK lead the defence market in the delivery and operation of Unmanned Surface vehicles for Mine Warfare and ASW having delivered a number of platforms to international customers. AEUK will present their approach to modular unmanned systems and explain some of the principles which have resulted in a more affordable product for the customers' requirements.
- 11:55 USV close**

WEDNESDAY JULY 4th 2018 - Hybrid Marine Propulsion - The Drive For Change

13:00 Welcome address: Chairman

13:05 "The hour of power"

John Haynes, Managing Director, Shock Mitigation

"The Hour Of Power - Hybrid Technology for Workboats, Patrol Vessels and Superyacht Tenders"

13:30 "The marine sustainability revolution has begun. It's time to get aboard"

Dr Christoph Ballin, Co-Founder & CEO – Torqeedo GmbH

"The sustainability revolution, which is sweeping across the globe, is having a major impact in the commercial marine marketplace, and its momentum is accelerating, driven by regulatory, technology and market forces."

13:55 "World's most compact electric propulsion solution"

Martin van der Jagt, General Sales Manager, Veth Propulsion

"The first integrated L-Drive was delivered to Damen Shipyards' Volt Processor (Utility Vessel 4312, Remoy Management AS). This paper shows the results of this sea trial."

14:20 "Emissions and noise – the drive for change and hybrid and windfarm operations "

Anne Duncan, CEO, Ecospeed

"It is no secret that shipping in general is a greater polluter than trucks and cars, but the legislation to limit this has been slow to come. The sulphur cap due to come into force in 2020 is already causing boatbuilders to scramble for a solution."

14:45 Break

15:10 "Pilot boats: a hybrid option"

Tony Birr, Consultant, Goodchild Marine Services Limited

"There is a well published requirement for our ports to reduce their carbon footprint year on year. Goodchild Marine Services Limited now offers ports and other commercial operators the option of a Hybrid Boat, including the ORC HY Pilot Boat."

15:35 "Workboats - are hybrid propulsion systems the future?"

Dr Dennis Doerffel, Founder & Chief Technology Officer, REAPsystems Ltd

"Environmental concerns and standards are rising. Global warming is related to fossil fuel consumption. Health is related to emissions, noise and vibration. Operational costs, redundancy and reliability are becoming increasingly important in the workboat markets. The car industry is showing how electrification of propulsion systems either in the form of hybrid or pure electric can address all those concerns and offer additional benefits too."

16:00 "Tomorrow's power solutions for marine applications"

Tim Munn, Head of Sales & Marketing, Marine & Ports UK/Ireland, ABB

"Applying a variety of power storage solutions to give shipbuilders, owners and operators unprecedented flexibility when building and operating vessels. Energy storage and hybrid ship - How does it work?"

16:25 "TBC"

16:50 Seawork Conference Close

<p>Conference Fee £115^{GBP} Cost per delegate (standard rate)</p>	<p>Booking Online www.seawork.com or complete and fax the booking form below to +44 1329 550192. On receipt of your registration, you will be sent confirmation of your delegate place</p>
<p>Fee Includes</p> <ul style="list-style-type: none"> • Conference attendance for either the morning or afternoon session on the 4 July 2018 • Full documentation • Refreshments • Fast track access to the Seawork Exhibition 	<p>Contact Us For further information or to sponsor/exhibit at Seawork, please contact the Events team on: +44 1329 825335 or conferences@seawork.com</p>
<p>Venue Knighthood Conference Village, Mayflower Park, Southampton, SO14 2AQ Visit www.seawork.com</p>	

BOOKING FORM



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 to 4 **2018** | Southampton UK
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Please tick all that apply :

- Please register me for the Seawork Commercial Marine Conference 2018 I will attend the following
- Hybrid Conference (4 July 2018 - AM)
- USV Conference (4 July 2018 - PM)

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