12 JUNE 2019 | Southampton United Kingdom

Seawork Commercial Marine Conference

Commercial Marine Conference

Conference Programme

The Seawork Conference is a must for all involved in the commercial marine industry who wish to explore the challenges, changes and emerging opportunities in today's and tomorrow's commercial marine and workboat sector.

Returning for 2019, the Seawork Commercial Marine Conference will deliver updates and insights in the fast moving Unmanned Surface Vessel and Hybrid markets.

Be part of this international audience, take the opportunity to debate with industry experts and ask the challenging questions that will help you make a real difference to your business.

USV Chairman: Dan Hook, Senior Director, L3 ASV
Hybrid Chairman: Duncan Duffy, Global Technology Lead of Electro-Technical Matters, Lloyd's Register

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#Seawork2019

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The Commercial Application of USV - Wednesday 12 June 2019

8:20 **Registration and coffee**

8:45 **Chair: Dan Hook, Senior Director, L3 ASV**

8:50 **Gold sponsors welcome**
James Williams, Director, Unmanned Survey Solutions

9:00 **Keynote address - One Sea – vision & roadmap for Autonomous maritime transport system**
Jukka Merenluoto, Ecosystem Lead, One Sea/DIMECC Ltd

One Sea – Autonomous Maritime Ecosystem is a company alliance with the aim of enabling commercial autonomous maritime traffic by 2025. The presentation discusses the ecosystem's steps towards enabling autonomous maritime transport system including the activities One Sea is doing in regulation for MASS (Maritime Autonomous Surface Ships).

9:15 **Smart shipping and regulation update**
Rebecca Carpenter, DfT

9:30 **Operating wave-propelled AutoNaut unmanned surface vehicle (USV) around offshore infrastructure, including "close-pass" manoeuvres**
Phil Johnston, Autonaut

Through 2017 and 2018, AutoNaut's wave-propelled USV completed several operations in close proximity to offshore installations. Multiple "close-pass" operations were conducted to acquire data (such as from ADCP and visual cameras) during endurance missions of up to 5 weeks. Precise and consistent positioning of the AutoNaut USV was vital to mission success and for safety assurance. Demonstrating track-keeping within 5 metres and station-keeping within 25 metres allowed data to be acquired that would otherwise have been prohibitively hazardous and costly by other means. This presentation will focus on the output and data from these operations.

9:45 **How autonomous technology can be used to overcome the everyday challenges faced by ports**
James Cowles, Commercial Technical Sales Manager, L3 ASV

90% of the world's trade passes through ports. Siltation and requirements to expand mean that ports are forever changing. A changing environment requires rigorous maintenance and for ports. Autonomous vessels offer a solution, they are cost effective and easy to mobilise. In recent years, L3 Technologies' Unmanned Maritime Systems division has built up vast experience operating autonomous vessels in port environments.

10:00 **Q&A**

10:20 **Coffee & Networking**

10:50 **Big data analytics and autonomous vessels - when will legislation catch up?**
Elli Aidini and Antonia Panayides, Shipping Associate and Partner, ReedSmith*

11:05 **Panel - Learning from the rest" An Oil & Gas perspective on operating autonomous systems looks**
Simon Cheeseman, Sector Lead, Wave & Tidal Energy Ore Catapult

Panellists –
Tony Laing, Director of the National Subsea Research Institute
Peter Collinson, BP
Ioseba Tena, Sonardyne*
James Douglas, Sales Manager, Saab Seaeye*

12:00 **Ubiquitous Marine Autonomy with Advance Perception Technology**
Phil Bourque, Sea Machines

Vessel autonomy systems are commercially available and are using a basic set of existing vessel/marine sensors. As the state of the art progress towards higher levels of autonomy the need for advanced perception capabilities will grow considerably. This presentation will detail the initial results and performance of the Sea Machines perception technology and show how it is enabling autonomous control technology progress and adds increased value to workboat operators who implement it.

12:15 **Q&A**

12:30 **Wrap up**
Dan Hook, Senior Director, L3 ASV

12:35 **Close**

The Future of Hybrid Propulsion - Wednesday 12 June 2019

13:15 Registration and coffee

13:25 Chair: Duncan Duffy, Global Technology Lead of Electro-Technical Matters, Lloyd's Register

13:30 Keynote
TBC

13:45 Hybrid propulsion for new generation dredgers
Leonardo Aciarri, MD, Ship Projects Engineering & Contracting

14:00 Hybrids for commercial barges
Graeme Hawksly, MD, Marine Hybrid LTD

14:15 The Optimal Sizing of an Energy Storage Device for a Hybrid Electric Marine Vessel
Robert Dymock, PhD Student, Southampton University

Emission and redundancy regulations are reducing the viability of standard Diesel drivetrains. This research explores the economically efficient sizing of an energy storage device for a marine hybrid, utilizing MATLAB modelling and validation through Dynamometer and bench testing.

14:30 Q&A

14:50 Coffee & Networking

15:20 The practical use of hybrid ferries
Xavier de Montgros, President, French Association of Hybrid and Electric Boats and Founder & Associate Director of ODC Marine

With successful European commercial shipbuilding experience in Electric & Hybrid propulsion for workboats since 2009, ten ferries in delivered, this presentation will outline where these hybrid solutions fit market needs for both Inland Waterways as well as Coastal waters. With new ferries being built and delivered for 2019 – with capacity ranging from 50 to 150 passengers – it will focus on the features of these vessels and the overall program. An innovative shipyard who are market leading in passenger ferries, ODC Marine, will share their vision for the future.

15:35 Panel - The case for hybrid pilot boats - economic, environmental & operational
Andy Page, MD, Chartwell Marine ltd

Panellists –
Sander Vahtras, Technical Sales Manager at Baltic Workboats AS,
David Fallows, Mechanical and Electrical Engineer, Port of London Authority
Prof Bob Cribbs, Chairman, Poole Harbour Commissioners
Stephen Philips, Speed Vessel Effiency

16:35 Regulatory framework for commercial hybrid vessels
Alan Cartwright, Principal Surveyor, MECAL Limited

Hybrid systems have been exhibited at Seawork for the last two years, and innovative hybrid vessel projects are now under construction. The Port of London Authority (PLA) has ordered the UK's first hybrid pilot boat from Goodchild Marine to help reduce emissions on the River Thames.

16:50 Q&A

17:05 Wrap up
Duncan Duffy, Global Technology Lead of Electro-Technical Matters, Lloyd's Register

17:10 Close

*Invited

BOOKING FORM

Conference Fee
£130GBP
Cost per delegate
(standard rate)

Booking Online
seawork.com/book 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

Fee Includes
- Conference attendance on either morning or aftenoon of the 12 June 2019
- Full documentation for the session you are attending
- Refreshments
- Fast track access to the Seawork Exhibition

Contact Us
For further information on speaking, sponsoring, or attending the conference, contact the events team on: **+44 1329 825335** or **conferences@seawork.com**

Venue
Mayflower Park
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Visit **seawork.com/cmc**

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(Please copy this form for additional delegates)

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Please register me for the Seawork Commercial Marine Conference 2019. I will attend the following:

☐ USV Conference (12 June 2019 - AM) - £130GBP

☐ Hybrid Conference (12 June 2019 - PM)- £130GBP

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