

12 JUNE 2019 | Southampton
United Kingdom

sea Commercial WORK Marine Conference

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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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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 - 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 Maritime 2050: Regulating for Innovation

Rebecca Carpenter, Maritime, Environment and Technology, Department for Transport

In Maritime 2050 the Government set out plans to encourage innovation and technology development in UK maritime. As part of this ambition, the MCA has established the Maritime Autonomy Regulation Lab (MARLab) to examine the regulation relating to MASS.

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

Phil Johnston, Business Development, Autonaut USV Ltd

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

In our presentation, we will discuss about the Maritime Autonomous Surface Ships ("MASS"), their capability to revolutionise shipping and address the question of whether the required legal framework will be in place to allow MASS to operate on an international level. The question arises where the international conventions and regulations currently in place were not drafted with autonomous and unmanned vessels in mind. Finally, we will provide our view on how the implementation of new or amended regulations will take place.

11:05 Panel - "Learning from the rest" An Oil & Gas perspective on operating autonomous systems

Moderator: *Simon Cheeseman, Sector Lead, Wave & Tidal Energy, Ore Catapult*

Panellists –

- *Tony Laing, Director of the National Subsea Research Institute*
- *Peter Collinson, Senior Subsea and Environmental Specialist, BP Upstream Technology*
- *Stian Michael Kristoffersen, Product Manager USV Solutions, Kongsberg Maritime*
- *David Kirkley, Managing Director, Submarine Technology Ltd*

12:00 Ubiquitous marine autonomy with advance perception technology

Peter Holm, European Director, 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

13:30 Chair: Duncan Duffy, Global Technology Lead of Electro-Technical Matters, Lloyd's Register

13:35 Gold Sponsors address

Eddy De Backer, General Manager, Esco Power

13:45 Keynote address - "The HEVIMA Project"

Dr Dennis Doerffel, Founder & Chief Technology Officer, REAP Systems

14:00 Hybrids for commercial barges

Graeme Hawksley, MD, Hybrid Marine LTD

Marine Hybrid systems continue to find compelling applications in the commercial market. This presentation will detail a fleet of barges that came into service in Spring 2018. Operating in central France these 38M vessels provide scenic tours for 55 passengers. Operating from the battery bank alone these craft provide a full day's operation in complete silence. Initially installed with a parallel/serial hybrid system, a pathway to eliminating diesel engines is provided, once shore side charging infrastructure is better developed. Detailed system design and operating experience will be presented.

14:15 Electrical power and propulsion systems

David Taylor, Automation Solutions Manager -UK & Ireland, Nidec

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

Moderator: 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 Cripps, Chairman, Poole Harbour Commissioners*
- *Stephen Phillips, MD, Seaspeed Marine Consulting*

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

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- USV Conference (12 June 2019 - AM) - £130_{GBP}
- Hybrid Conference (12 June 2019 - PM)- £130_{GBP}

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