

London Branch Conference

Maritime Excellence Programme

Autonomous Ships – What does the future hold?



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Conference Chairman: Captain Nick Nash FNI 25th-26th September The Novotel Hotel, Bristol

The Seminar

Two years ago, the London Branch Conference looked at 21st Century Shipping and how the industry will evolve. Autonomous and/or unmanned vessels is one of the evolutions that is proceeding at a fast pace. Autonomous and unmanned vessels are already in use in the defence industry for mine clearance and targets; in the oil and gas industry for subsea positioning, surveying and environmental monitoring; and in oceanographic data collection. Whilst the number of vessels are small, the technology is advanced and can be easily scaled up to SOLAS size.

This seminar will look at the issues involved with increasing autonomy in shipping with an introduction to the concept; an overview of current developments; the technology present and future; safety and assurance of vessels; what changes mean for shipowners; legal and insurance implications; and the human element – monitoring and navigating autonomous ships.

The generous support of our sponsors has enabled us to keep the cost of the seminar at reasonable levels in order to encourage the attendance of sea-going officers and to offer students the opportunity to attend at advantageous rates.

Who should attend?

The seminar will benefit all those with an interest in the future of the shipping industry including: shipmasters, mariners, ship owners and operators, charterers, harbour authorities, surveyors, trainers, naval architects, claims handlers, maritime lawyers, P&I insurers and marine consultants.



DAY 1 FRIDAY 25TH SEPTEMBER 2015

12:30	Lunch and Registration
14:00	Opening Address by Nautical Institute – London Branch
	Welcome Address by The Lord Mayor of Bristol: Cllr Clare Campion-Smith
14:10	Autonomous Ships An introduction to the concept of Autonomous Ships. What are they? Why do we need them? How long will it take to get there? How will they find their place in the maritime world? James Fanshawe CBE, Chairman, Maritime Autonomous Systems Regulatory Working Group
14:30	Developing Autonomous Navigation: The MUNIN unmanned vessel test-bed An overview of current developments. What prototypes are developed and what still needs to be done? How will technology be tested? How will safety and efficiency gains be assessed? Hans-Christoph Burmeister, Project Co-ordinator, MUNIN
15:00	Towards Autonomy & Remote Operations in Ships What is the motivation for unmanned operation in commercial shipping? How will we get there? What technologies are required and what obstacles must be overcome? Eshan Rajabally, Technologist, Rolls Royce
15:30	Safety Assurance of Autonomous Vessels - a Class Perspective How does the safe operation of autonomous vessels differ from that for manned vessels? How will Lloyd's Register develop its assurance processes to meet the requirements of operators and regulators? Ben Cuckson, Lead Specialist, Naval Liaison Office, Lloyds Register
16:00	Coffee break
16:20	Ship-owning and ship-management What will the changes mean for Shipowners & Managers? Risks and pressures? How will they plan for and operate "mixed" fleets of autonomous and non-autonomous vessels? Matthew Williams, Senior Marine Advisor, International Chamber of Shipping
16:50	Insurance How will H&M and P&I insurance need to adapt and change? Some risks may increase whilst others will be reduced. What are these risks? How will they affect premiums? Will the insurers need to increase their risk assessment and monitoring procedures? Stuart Edmonston, Loss Prevention Director, Thomas Miller (UK P&I Club)
17:20	Discussion Session
20:00	Gala Dinner at the Novotel, Bristol Guest Speaker - Reyd Philip Auden MNM DL MNL Missions to Seafarers Bristol

DAY 2 SATURDAY 26TH SEPTEMBER 2015

09:30	Navigation: Machines v Humans – Who will win? The art of navigation, route planning, route monitoring & active decisions. The insuffiency of the COLREGS in many situations. Manned and autonomous ships in the same area – what will happen? Dr. Andy Norris FRIN FNI
10:00	The Human Element How will training requirements change & develop. No or smaller crews. The effect of the "monitoring" role aboard and ashore. Passive/active operators. Psychological effects for those on board and ashore Chris Pollard, Plymouth University
10:30	Coffee break
10:50	Legal Considerations Who is in command? How will flag/coastal/port states react? Liabilities and responsibilities under international law for Masters and Owners. SOLAS/STCW/COLREGS, etc. Dr Alexandros Ntovas, Institute of Maritime Law (Southampton)
11:20	Questions and Discussion An open panel discussion to allow delegates to put forward their own views and questions to all conference speakers.
12:10	Summing up and review of the implications for Mariners, Shipowners & Managers
	Chairman: Captain Nick Nash FNI, Vice-President Nautical Institute
12:30	Close of Conference

For information on London Branch events visit our website:

http://www.nautinstlondon.co.uk

and our Facebook page:

https://www.facebook.com/nauticalinstitutelondon

The Nautical Institute is a non-governmental organisation (NGO) with consultative status at the International Maritime Organisation (IMO). Our aim is to represent seafarers' and practical maritime professionals' views at the highest level.

General Information

Accommodation

Delegate accommodation is available at the Novotel for delegates and their guests. Accommodation is limited so early booking is essential and by 14th August. To receive the delegate discount rate please mention the seminar when making your reservation. Credit card details are required to guarantee your reservation.

The Novotel Hotel Bristol (seminar venue)

Victoria Street, Bristol BS1 6HY

Tel: +44 (0)117 3199002 Fax: +44 (0)117 9255040

Delegate discount rate: £109 single occupancy per night, £119 double occupancy per night including breakfast and VAT.

Details



Language - the language of the seminar is English

Continuing Professional Development - Accreditation by the Law Society of England and Wales (CTD/NAIN). CPD certificates will be issued

Registration fees

NI Sea-going member: £90
NI Shore-based member: £190

Nautical Institute (AMNI) Students: £50 (Limited number available)

Non members: £240 Guests (Dinner only): £40

Fees include attendance at the seminar, all seminar papers, lunch and gala dinner on 25th September.

All inclusive of VAT



Register online at

https://autonomousships.eventbrite.co.uk

Sponsors

Main sponsor

The UK P&I Club

The UK P&I Club is one of the oldest P&I clubs in the world. It provides Protection and Indemnity insurance in respect of third party liabilities and expenses arising from owning ships or operating ships as principals. One of the largest mutual marine protection and indemnity organisations it insures over 200 million tonnes of owned and chartered ships from more than fifty countries across the globe.

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