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Image: Rolls-Royce

Revolutionary Technology Inspiring Ship Control

Tuesday 2 – Thursday 4 October 2018
Technology & Innovation Centre, Glasgow, UK

iSCSS at a glance

- Hosted alongside the 14th International Naval Engineering Conference and Exhibition
- Over 100 expert participants
- Over 25 peer-reviewed technical papers with the option to attend sessions at INEC 2018
- All technical papers assigned a DOI (Digital Object Identifier) reference
- The Sir Donald Gosling Award which will encompass iSCSS in 2018
- Continuing Professional Development approved by IMarEST
- 15 plus focussed exhibition stands as part of the INEC 2018 exhibition
- International attendance from over 20 countries attending both events
- Excellent networking opportunities and social programme combined with INEC 2018
- Industrial visits

The Aim

INEC 2018 will encompass the International Ship Control Systems Symposium (iSCSS) establishing this forum once again after an absence of nine years. The sub-committee of international control experts, aim to bridge the gap between the shipbuilding industry, academia and research institutes not only for the naval sector but for the maritime sector as a whole.

Outside the maritime domain, new technologies are developing at revolutionary speeds, such as autonomous systems, artificial intelligence, robotics, hybrid propulsion and power generation, and intelligent power and energy management, therefore, the industry urgently needs to rethink control strategies for all types of marine vehicles if the maritime sector is to benefit from these technologies.

The Symposium's theme is, *Revolutionary Technology Inspiring Ship Control*. The aim is to inspire researchers, engineers, seafarers and others involved in future ship control to present their papers on innovative and emerging technologies and to actively stimulate debate across the maritime industry. We are particularly interested in attracting the new generation of professionals who have 'grown up' with these technologies.

“... an opportunity to influence future control strategies – be part of this movement to change the marine industry.”

Lt Cdr Rinze
Geertsma RNLN
MSc CEng MIMarEST



Symposium themes

TOPICS

- Autonomous vehicles and systems
- Manning reduction and the roadmap towards higher degrees of autonomy
- The application of artificial intelligence in ships controls
- Improvement and optimisation of control of hybrid power generation and propulsion systems
- Control of new power generation technologies, such as alternative fuel engines, fuel cells, and combined cycles
- Real time control algorithms to improve energy efficiency
- Predictive maintenance algorithms for reduced manning and autonomous ships
- Modelling, simulation and validation of case studies
- Control and optimisation of auxiliary systems



Background to iSCSS

The Ship Control Systems Symposium was an initiative started by the government defence departments in Canada, The Netherlands, UK and USA with the objective to promote knowledge sharing and collaboration between member nations in ship control systems concepts, design, operation and support as well as to provide a professional and public forum for commercial marine, industry, government, academia and naval engineering communities. The symposia series was organised 14 times rotating between the four nations from 1966 until 2009. In 2018, it is relaunched as the International Ship Control Systems Symposium (iSCSS) and will be held alongside INEC 2018 focussing on the rapid development of new revolutionary technologies and the impact on future control system strategies for both naval vessels and commercial ships.

Submit your synopsis online: www.inec.org.uk

Call for Papers

The Technical Advisory Committee welcomes synopses from all areas of the industry and academia. Papers will be reviewed and selected on the basis of technical quality, relevance and their potential for generating discussion. Papers will be presented either by poster or lecture in English. Prospective authors are invited to submit titles of papers, keywords and synopses of between 250 and 500 words (TEXT ONLY – please do not submit pictures, figures, graphs, equations etc) to the iSCSS Technical Advisory Sub-Committee online following the instructions below.

Selected authors will be invited to submit final papers of up to 4000 words by Friday 18 May 2018. Please note that all papers are peer reviewed and outstanding papers may be included in other IMarEST publications after the event subject to Author(s) permission.

Papers will be assigned a DOI reference; in addition, the process to include proceeding papers in Scopus is ongoing.

Who will attend?

Navies, commercial and military ship operators, designers and shipbuilders, classification societies, machinery and equipment manufacturers, universities and research institutes.

Sir Donald Gosling Award

The INEC 2018 Technical Advisory Committee is delighted to announce once again the Sir Donald Gosling Award, with an extended remit to include the International Ship Control Systems Symposium (iSCSS) in 2018. The award consists of three prizes (first prize £5,000; second prize £2,500; third prize £1,500). Financial awards will be shared equally between named joint authors and a certificate will be awarded for each

Key Dates

Close of Call for Papers

Monday 22 January 2018

Notification to successful authors

February 2018

Receipt of full technical papers

Friday 18 May 2018

individual author. All named joint authors must be 35 years of age or under at the time of the conference. In the first instance, authors are asked to submit a synopsis via the Call for Papers process. All authors must provide proof of their date of birth, such as a copy of their passport, at the time of synopsis submission. Selected authors will be invited to submit technical papers as outlined; eligible winners must present their paper at the conference, where the award ceremony will take place. The Sir Donald Gosling Award is subject to terms and conditions – visit www.inec.org.uk.



iSCSS 2018 is organised by FIGS Events Limited on behalf of IMarEST

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For further information visit www.inec.org.uk/iscss

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