

# RINA WESTERN BULLETIN

## Technical Meeting Notice

Topic:

### **Unmanned WindShip 2025 & Annual General Meeting**

When: Wednesday, 12<sup>th</sup> June, 17:30 refreshments, 18:00 start  
Where: [Engineers Australia - Auditorium, 712 Murray St, West Perth](#)  
Cost: Free  
Registration: Not required for this event.

### WA Section RINA Committee

Chairperson: Sammar Abbas  
Vice Chair: Vacant  
Secretary: Matthew White  
Treasurer: Andy Phillips  
Members: Tim Gourlay  
Cheslav Balash  
Gino Parisella  
Yuriy Drobyshovski  
Nick Bentley  
Ian Milne  
Jinzu Xia  
Mike Priestly

Division  
Representative: Kalevi Savolainen

## Presentation:

### **Unmanned WindShip 2025**

#### **Ken Goh, General Manager, Knud E Hansen Australia**

#### **Abstract**

The IMO has set a timetable to eliminate fossil fuel use with a 50% reduction by 2050. Small efficiency gains in internal combustion engine technology and using auxiliary wind assisted systems is unlikely to make the significant changes to greenhouse gases that are being sought.

Back in 1999 Knud E Hansen had developed a concept design for a fully wind powered vessel – The WindShip. The research showed that a wind powered vessel for bulk and liquid cargo was feasible on certain trading routes, but the additional capital expenditure was not able to be recovered due to low fuel prices of that day.

Today the economic and environmental situation makes the WindShip much more attractive. The new WindShip 2025 concept also combines hybrid diesel, solar and battery technologies to enable the WindShip to be even more economical. Unmanned operations reduce operating costs and simplify the ship design and increase cargo capacity.



#### **About the Presenter**

Ken Goh is a Senior Engineer and General Manager for Knud E Hansen Australia, a Danish naval architectural practise producing many types of highly specialised vessels designs including jack-up vessels, cruise ships, ferries, research vessels and icebreakers for owners and operators all around the world.

Recently he managed the concept design team for the new Australian Antarctic research and supply vessel to be delivered in 2020. He is also active in research for digital transformation technologies, energy optimisation and autonomous operations for future shipping.

# RINA WESTERN BULLETIN

## WA Section

### Notice of Annual General Meeting

Notice is hereby given that the Annual General Meeting of the WA Section of the Royal Institution of Naval Architects will be held at Engineers Australia - Auditorium, 712 Murray Street, West Perth, WA on Wednesday 12 June 2019 commencing at 6:30 pm Western Standard Time (following Technical Presentation).

### AGENDA

1. Opening
2. Apologies
3. Confirmation of the Minutes from the previous AGM (Engineers Australia, 23 May 2018)
4. Election and Confirmation of the Committee Members
5. Chairman's Report
6. Receive, consider and adopt the financial statements for the year ending 31 December 2018
7. Australian Division Representative Report
8. Forthcoming Technical Presentations
9. Technical Presentations Venue
10. Membership Aspects
11. News and Events
12. Other Business

### Notice to All Members

WA Section accounts for the year 2018 have been audited. The accounts are available for review and comment. For more information contact the Treasurer Andy Phillips at [Andy.Phillips@austal.com](mailto:Andy.Phillips@austal.com).

### Nominations of the Committee

Nominations are invited for the election of new Committee members and re-election of the existing members. Please send your nominations to WA Section Secretary via e-mail [WA@rina.org.uk](mailto:WA@rina.org.uk). Please note that self-nominations are not permitted at this time, if you would like to be part of the committee please contact the section Secretary for advice on how to go about it. Please note nominations close 31<sup>st</sup> May 2019.

## **RINA NEWS & Events**

### Upcoming Technical Presentations

RINA WA is always looking for interesting technical presentations and people to present them. If you have a topic or know of someone who does, please feel free to contact the WA section and we can look at getting it added to our event calendar.

The current event program can be found below:

Date	Topic #1 / Author	Topic #2 / Author	Venue
2019 June 12	Wind Powered Vessel, Kenneth Goh	AGM	Engineers Australia, West Perth
2019 Aug 14	TBC	TBC	Engineers Australia, West Perth
2019 Oct 16	TBC	TBC	Engineers Australia, West Perth

# RINA WESTERN BULLETIN

## **RINA NEWS & Events**

### **Achievements and Recognition**

The WA Section would like to acknowledge the efforts and achievements of our members, if you have any news you would like to share, please contact the Section Secretary.

### **Australian Naval Architect**

Thank you to all those who responded to our call for news for the ANA, it won't be long until we are asking again so please start thinking and composing your news so we can again have a strong representation from the WA Section.

### **LinkedIn**

Join for event updates and discussion.



[Royal Institution of Naval Architects \(RINA\) – WA Section](#)

### **RINA WA Section Library**

The library is now located at Bentley Systems. Access to the library can be arranged by contacting:

Daniel Veen: [Daniel.Veen@bentley.com](mailto:Daniel.Veen@bentley.com)

James Clarkson: [James.Clarkson@bentley.com](mailto:James.Clarkson@bentley.com)

Catalogue in Excel format is available at <https://www.rina.org.uk/walibrary>

### **Continuing Professional Development (CPD) Record**

This is a reminder that all Fellows, Members and Associate-Members who are in or seeking active work must maintain and develop their competence and knowledge. This requirement is obligatory. The Institution reserves the right to monitor a member's CPD achievement through inspection of the CPD Record. More information on the CPD and recommendations on the format of the Record can be found on the website:

[https://www.rina.org.uk/continuing\\_professional\\_development.html](https://www.rina.org.uk/continuing_professional_development.html)

*RINA Western Bulletin proudly sponsored by the following companies:*



**Take uncertainty out of the marine engineering equation.**

Tap into our expertise: [onaconsultants.com.au](http://onaconsultants.com.au)

Deep knowledge.  
Fluid thinking.

**ona**  
CONSULTANTS



**INTECSEA**  
WorleyParsons Group

Naval Architecture, Riser and Marine Engineering

- Design of new vessels and conversions
- Hydrodynamics and mooring systems
- Structures, risers and marine systems
- Response Based Analysis, CFD, FEA
- Owner's Engineer services
- Inspections and due diligence services

[marineperth@intecsea.com](mailto:marineperth@intecsea.com)  
[www.intecsea.com](http://www.intecsea.com)  
+61 (0)8 9289 5800