



# RINA AFFAIRS

OCTOBER/NOVEMBER 2017

The Newsletter of the Royal Institution of Naval Architects

## CHIEF EXECUTIVE'S COLUMN



**2**018 Annual Membership and Registration (where appropriate) Fees Renewal Notices will be forwarded this month by email, with posted copies only to members for whom no email address is held.

The recommended and preferred method of payment for members with access to a UK bank is by Direct Debit. Payment is taken when due on 1 January 2018, and no further action is required. This ensures that payment of membership fees is not overlooked, and avoids the need for me to write to members in June 2018, informing them that they are about to be removed from the Membership Roll and registration

with the Engineering Council for non-payment of fees, their journals having been stopped earlier. Direct Debit Mandate Forms are available from Headquarters. Members in China may pay directly into the Institution's Chinese bank account.

Membership fees may be paid online by all major credit cards. Payment can also be made by bank transfer or personal cheque drawn on a GBP, Euro, A\$, NZ\$, Can\$ or US\$ account, but members should remember that the bank will make a charge for transfer and ensure that the full amount due is transferred.

All members are entitled to receive the printed and digital issues of *The Naval Architect* (+ *Warship Technology* + *Offshore Marine Technology*). Members have the option to receive the digital version only, with a corresponding reduction in membership fee. The financial saving to both member and the Institution apart, many members find this to be the most convenient method of receiving and reading the journals, whether on a PC or tablet. Members receiving the digital issue have access to all archived issues. Members are requested to check their MyRINA page before paying their 2018 Membership Fee, to ensure they are receiving the correct journal version or to opt to receive the digital version only.

Members are also asked to review their standing order for journals and the Transactions (the *International Journal of Maritime Engineering*, the *International Journal of Small Craft Technology* and the *International Journal of Marine Design*). Members should also decide if they wish to subscribe to *Ship & Boat International* and *Ship Repair & Maintenance*. I would urge all members who do not already do so to consider taking these journals at P&P cost only. They are first class journals and are widely acknowledged in the world maritime industry as leaders in their fields. More copies sent to members means larger circulations, which makes the journals more attractive to advertisers, which increases the Institution's income, which means lower Annual Fees!

I would ask all members to check and update their personal details given on their MyRINA page. At any one time, up to 200 members' current addresses are not known, resulting in correspondence and journals being returned, and back numbers being forwarded when new addresses are notified. The additional administrative, postage and printing costs are not insignificant. A charge is also made for returning journals from outside the UK.

Trevor Blakeley

## IN THIS ISSUE

### Chief Executive's Column

Members are reminded that the 2018 Annual Membership and Registration (where appropriate) Fees Renewal Notices will be forwarded this month.

### Membership Committee

New members of the Membership Committee are wanted.

### People in the News

The achievements of students and more senior members of the Institution are recognised by Awards.

### 2017 President's Invitation Lecture

The 2017 President's Invitation Lecture will be presented on 22 November by Mr S.C. James Tai, Technical Director of Orient Overseas Container Line Ltd. In his Lecture, James Tai will describe the many commercial and technical challenges operating large container vessels presents.

### Publications

Members are reminded that all Transactions papers (JME and JSCT) are now available to members.

### Letters to the Editor

Letters to the Editor ask if the UK ever had any major design firms like Gibbs and Cox, seek the views of members on the availability of information and request information about Denys Arthur Rayner. Can you help?

### Maritime Awards

Nominations are invited for the 2017 Maritime Safety and Maritime Innovation Awards.

### Thought for the Month

For a politician to complain about the press is like a ship's captain complaining about the sea

## PEOPLE IN THE NEWS

### International Maritime Club Awards

The Chief Executive, Trevor Blakeley FRINA, received a Lifetime Achievement Award from the International Maritime Club in recognition of his Contribution to Maritime Professional Integrity and Assurance. The Award was presented at the meeting of the UK Chapter of the IMC by Dr. Ravi K Mehrotra, Founder & Executive Chairman of Foresight Group. The Award was also received by Capt. Ed Geary FRINA.

#### RINA – Bureau Veritas Student Award

The 2017 RINA – Bureau Veritas Student Award has been presented to Lauranne Maisonneuve whose thesis “Verification of numerical tools to predict submarines manoeuvrability in restricted waters” was judged to be the best final year thesis at ENSTA Bretagne.

#### ABS Europe Technical Committee

Dr Carl Hunter FRINA and member of Council has been invited to



The Chief Executive receives his Award from Dr. Ravi K Mehrotra

become a member of the ABS Europe Technical Committee.

#### RINA – BAE Systems Student Award

The 2017 RINA – BAE Systems Student

Award for the best MEng project at Southampton University was presented to Juliette Bataille by the Chief Executive during his recent presentation to First Year Students. Her project title was “Sphere Impact

Winners of the IMC Awards





John De Rose receives his Certificate from the President

*in Newtonian versus Non-Newtonian Fluid*

### Certificate of Appreciation

On his resignation as Chairman of the IMO Committee, Mr John De Rose, was awarded the Council's Certificate of Appreciation, in recognition of "his significant contribution to the work of the Institution, as a member and the Chairman of the IMO Committee. The Certificate was presented by the President, Mr Tom Boardley, at a recent meeting of the Council.

### THOUGHTS FOR THE MONTH

He who loves practice without theory is like the sailor who boards ship without a rudder and compass and never knows where he may cast.

*Leonardo da Vinci*

## LETTERS TO THE EDITOR

### Did the UK ever have any major design firms like Gibbs and Cox?

*Sir:* Did the UK ever have naval architecture design firms (also called design agents) like the US companies Gibbs and Cox or Rosenblatt and Sons? By this I mean firms which engaged in design only, not construction, for large complex vessels like navy ships and large merchant and passenger ships. In the USA, it also was common for the Navy to turn to these design agents to develop detailed design drawings that would be built by shipyards.

As far as I know, only yacht designers have routinely provided design-only services in the UK; if you wanted a cargo or passenger ship, it was the naval architects at the shipyard who designed it. And the British navy depended on shipyards for detailed design drawings for their vessels.

In other words, I'm trying to establish if design firms like G&C were an American-only phenomenon. I would be grateful if any member could help me shed light on this.

*Dr. Larrie D. Ferreiro*  
larrie.ferreiro@verizon.net

### The views of Naval Architects

*Sir:* I am a student at the Business Academy Lillebælt in Denmark. For my final assignment I would like to contact naval architects to answer a few questions, regarding what they would think, if they were introduced to a free system where there were 3D files, renderings and CAD drawings of Daughter Crafts and Fast Rescue Crafts. Would they use such a system in their everyday work? And how should a company approach them, and so on?

*Erik S. Simonsen*  
erik\_simonsen@hotmail.com

### Denys Arthur Rayner

*Sir:* I would be grateful for any information about Denys Arthur Rayner who was an RNVR Officer who commanded an Escort Group late in the Second World War. According to Wikipedia, he was an amateur yacht designer and experienced small boat sailor.

*Tim Lyon*  
Tim.Lyon@grapevine.com.au

### HEADQUARTERS NEWS

### Video Conferencing

Video conferencing facilities have now been installed in the Scott Russell and William Froude Rooms. These will be used for remote Professional Review Interviews and Institution meetings. The facility will also provide an additional marketing attraction for the hiring of the rooms to other organisations. Members and their companies receive a discount on the room rates, where the use free use of WiFi is also included. Details of the Rooms are online at [www.rina.org.uk/conference\\_and\\_meeting\\_facilities.html](http://www.rina.org.uk/conference_and_meeting_facilities.html)

Rates, which are significantly lower than those offered by hotels, and further information can be obtained from Sally Charity at [scharity@rina.org.uk](mailto:scharity@rina.org.uk)

### THOUGHTS FOR THE MONTH

If my ship sails from sight, it doesn't mean my journey ends, it simply means the river bends. *Enoch Powell*



# News from the Technical Committees

## Maritime Innovations Committee

The Maritime Innovations Committee is tasked with identifying and assessing the impact of evolving technologies on the membership and profession, and determining how the Institution should address them.

It has determined that such technologies should be identified and considered under the following headings:

- Hydrodynamics and Propulsors
- Design and Manufacturing
- Materials and Coatings
- Power Generation and Energy Management
- Operations, Maintenance and Training
- Autonomy, Data, Digital and Cyber
- Safety and Environment incl. Human Factors and Legislation
- Business and Economics Business

## Maritime Innovation Group Forum

Comments on the work of the Maritime Innovation Committee Can be posted on the Maritime Innovation online Forum at [www.rina.org.uk/maritime-innovation-group.html](http://www.rina.org.uk/maritime-innovation-group.html)

## THOUGHTS FOR THE MONTH

Ships that pass in the night and speak to each other in passing;  
Only a signal shown and a distant voice in the darkness;  
So on the ocean of life we pass and speak one another,  
Only a look and a voice; then darkness again and a silence.

Henry Wadsworth Longfellow,  
1807-1882

# Publications

## Transactions Papers now free to members

Since 2003, the Transactions – International Journal of Maritime Engineering; International Journal of Small Craft Technology; International Journal of Marine Design – have been published as both printed and digital editions which can be read on PC, iPad and other touchpad / tablet devices. Digital editions can be fully searched online, printed out or annotated with personal notes and bookmarks.

All papers published in the digital editions are now freely available to members. Email notification will be sent when new issues are available, and members will have access to the archived issues.

To access the digital editions, click on

- [www.rina.org.uk/ijme\\_digital.html](http://www.rina.org.uk/ijme_digital.html)
- [www.rina.org.uk/ijsc\\_t\\_digital.html](http://www.rina.org.uk/ijsc_t_digital.html)
- [www.rina.org.uk/ijmd\\_digital.html](http://www.rina.org.uk/ijmd_digital.html)

Members will require to log on using their Membership Number and email address.

## Warship Technology eNews and Offshore

## Marine Technology eNews

Warship Technology eNews and Offshore Marine Technology eNews have joined Ship & Boat International eNews and Shiprepair & Maintenance eNews in providing reports on developments in the industry in the months when the full journals are not published.

## Significant Ships of 2017 and

## Significant Small Ships of 2017

The annual RINA publications *Significant Ships of 2017* and *Significant Small Ships 2017* are now available to pre-order from the Publications Department at [publications@rina.org.uk](mailto:publications@rina.org.uk) in either printed or CD-ROM format. Details are at [www.rina.org.uk/sigships.html](http://www.rina.org.uk/sigships.html) and [www.rina.org.uk/sigsmallships.html](http://www.rina.org.uk/sigsmallships.html)

30 – 50 significant completions during the year will be described, including concise technical details, extensive tabular principal particulars, including major equipment suppliers, detailed general arrangement plans and a colour ship photograph.

## 2017 PRESIDENT'S INVITATION LECTURE

### The commercial and technical challenges of operating large container vessels

22 November 2017

at One Whitehall Place, London, UK

The 2017 President's Invitation Lecture will be presented by Mr S.C. James Tai, Technical Director of Orient Overseas Container Line Ltd, Orient Overseas Container Line Ltd operate the largest container ships in the world. In his Lecture, James Tai will describe the many commercial and technical challenges which that presents.

The President will welcome guests for the drinks reception in the Reading and Writing room from 19:00. The Lecture will take place in the Gladstone Library at 19:30, which will then be followed by dinner.

Tickets for the Lecture and dinner are £84 (excluding VAT) per head. Corporate tables of either 8 or 10 may also be reserved, subject to availability. To book a ticket(s), contact Catherine Staunton-Lambert at [clambert@rina.org.uk](mailto:clambert@rina.org.uk) or Tel: +44 (0)20 7235 4622.

# Events News

## ICCAS 2017

75 papers were presented to over 175 delegates at the 2017 International Conference of Computer Applications in Shipbuilding, organised by the Institution in Singapore, from



Chief Executive, Trevor Blakeley, and Technical Director, Mark Staunton-Lambert, take a break from ICCAS 2017



The Institution's stand at Pacific 2017

25-27 September. Details of the papers presented are at [www.rina.org.uk/ICCAS-2017.html](http://www.rina.org.uk/ICCAS-2017.html). The conference proceedings (3 Vols) may be obtained from [Publications@rina.org.uk](mailto:Publications@rina.org.uk)

**ICCAS 2019 will be held in September 2019, in Rotterdam.**

Members and potential members were welcomed by the Chief Executive to the Institution's stand at Pacific 2017.

## International Maritime Conference

The International Maritime Conference, organised by the Australian Division in conjunction with the Pacific 2017 Show was attended by 350+ delegates who were presented with 80+ papers.

Delegates at ICCAS 2017

# Membership Committee

## Members wanted

Members with either an academic or industry background are wanted to serve on the Institution's Membership Committee. Other than being a Corporate member (FRINA, MRINA, AMRINA or ARINA), no particular expertise or experience is required to contribute to the work of the Committee, which is responsible for assessing all applications for Corporate membership and registration

with the EC(UK). With applications from over 90 countries, the work of the Membership is both interesting and of course, vital to maintaining the high standards of professional competence and integrity which are implied by the letters FRINA or MRINA after a member's name.

Members who are interested in joining this important Committee, or who require further information should contact the Chief Executive at [tblakeley@rina.org.uk](mailto:tblakeley@rina.org.uk)

## THOUGHTS FOR THE MONTH

No man will be a sailor who has contrivance enough to get himself into jail; for being in a ship is being in a jail, with the chance of being drowned ... A man in jail has more room, better food, and commonly better company.

*Samuel Johnson, 1759*

## News from the Divisions, Branches and Sections

### Singapore Joint Branch

While in Singapore for the ICCAS 2017 Conference, the Chief Executive, Trevor Blakeley, attended a Technical Meeting of the Singapore Joint Branch, when Dr. Alan J Murphy, Reader (Associate Professor) in Maritime Engineering, Newcastle University, presented *Latest Research Developments in Maritime Energy Efficiency and Emission Reduction* describing some of the research work carried out by Newcastle University and partners. Mr Blakeley later gave an update on Institution current and future activities.

### UAE Branch

The RINA UAE Branch organized a Branch meeting and technical paper presentation on 31 October 2017 at Abu Dhabi. The event was held at Al Ain Ball Room, Royal Rose Hotel, Abu Dhabi. Two papers were presented during the event.

Prof. Michael Fan, BEng(Hons) CEng FIES FIMarEST FRINA, Head of Engineering, Abu Dhabi Ship Building PJSC presented the paper *Naval Ship Design – Risky Business?* which traced the learning curve of the methodology known as Risk Based Design (Design for Safety). The paper gave good insights into the current safety system based on prescriptive rules and the emerging safety systems which takes basis from inter-related principles like Design for Safety (DFS), Risk Based Design (RBD), and Life Cycle Risk Management (LCRM).



Professor Michael Fan

The second paper for the evening was presented by Mr. Ashik Subahani, CEng, FRINA, FSNAME, MIIMS, Managing Director, Great Waters Maritime LLC Dubai, about *Wind Farm Market Updates and Challenges on Operating Middle East Specified Jack-up Barges at North Sea*. The paper covered challenges on using jack-up barges in the North Sea environment emphasizing stringent criteria to be followed in comparison with Middle Eastern Standard and its economics. New developments like multi-purpose jack-up barges were also touched upon.

Both paper presentations were very interactive and captured the attention of attendees. The evening was attended by more than 85 persons consisting of branch members and invited guests. Rajesh Panicker, Branch Secretary opened the proceedings of the evening and Mr. Darwin Morano, RINA-UAE Branch committee member welcomed the attendees and introduced the speakers and their topics.

Mr. Trevor Blakeley, Chief Executive of RINA, made a short address during the meeting and presented mementos to the day's speakers.

Rajesh Panicker

Mr Ashik Subahani



Members and guests of the RINA UAE Branch





## RINA-QinetiQ Maritime Innovation Award

Innovation is key to success in all sectors of the maritime industry and such innovation will stem from the development of research carried out by engineers and scientists in universities and industry, pushing forward the boundaries of design, construction and operation of marine vessels and structures.

**The Maritime Innovation Award** seeks to encourage such innovation by recognising outstanding scientific or technological research in the areas of hydrodynamics, propulsion, structures and material which has the potential to make a significant improvement in the design, construction and operation of marine vessels and structures.

The Award is made annually to either an individual or an organisation, in any country. Nominations for the Award may be made by any member of the global maritime community, and are judged by a panel of members of the Institution and QinetiQ. The award will be announced at the Institution's Annual Dinner.

Nominations are now invited for the 2017 Maritime Innovation Award. Individuals may not nominate themselves, although employees may nominate their company or organisation.



**Nominations** may be up to 750 words and should describe the research and its potential contribution to improving the design, construction and operation of maritime vessels and structures.

**Nominations** may be forwarded online at [www.rina.org.uk/maritimeinnovationaward](http://www.rina.org.uk/maritimeinnovationaward)

or by email to: [maritimeinnovationaward@rina.org.uk](mailto:maritimeinnovationaward@rina.org.uk)

**Nominations** should arrive at RINA Headquarters by 31st December 2017.

Queries about the award should be forwarded to the Chief Executive at [hq@rina.org.uk](mailto:hq@rina.org.uk)

## New technology in shipbuilding projects – the risks and how to avoid them

### An invitation to members from Clyde & Co

**W**e are pleased to invite you to our event “New technology in shipbuilding projects – the risks and how to avoid them” taking place in Clyde & Co’s 2017 Shipping Week.

We invite you to join us in a discussion

of the legal and technical issues arising from Green and New technology and the advent of cyber crime as they apply to newbuild contracts. In particular we will be discussing:

- Technical and design difficulties experienced by incorporating new and green technology
- Design/engineering options to address new technology
- Contractual allocation of risks for supply and installation of new technology - law and drafting

consideration

- Approach of the courts to performance requirements in specifications
- Considerations for insurers in projects incorporating ‘cutting edge’ or unfamiliar technology
- The risks of cyber-attacks

This seminar will be of interest to anyone involved in the lifecycle of shipbuilding contracts from order to the end of the warranty period.

## RINA - Lloyd's Register Maritime Safety Award

The safety of the seafarer and protection of the maritime environment begins with good design, followed by sound construction and efficient operation. Naval architects and engineers involved in the design, construction and operation of maritime vessels and structures can make a significant contribution to safety and the Royal Institution of Naval Architects, with the support of Lloyd's Register, wishes to recognise the achievement of engineers in improving safety at sea and the protection of the maritime environment. Such recognition serves to raise awareness and promote further improvements.

The Maritime Safety Award is presented annually to an individual, company or organisation that in the opinion of the Institution and Lloyd's Register, is judged to have made an outstanding contribution to the improvement of maritime safety or the protection of the maritime environment. Such contribution may have been made by a specific activity or over a period of time. Individuals may not nominate themselves. Nominations are now invited for the 2017 Maritime Safety Award.

Nominations of up to **750 words** should describe the nominee's contribution to:

- safety of life or protection of the marine environment, through novel or improved design, construction or operational procedures of ships or maritime structures
- the advancement of maritime safety through management, regulation, legislation or development of standards, codes of practice or guidance
- research, learned papers or publications in the field of maritime safety
- education, teaching or training in maritime safety issues



The closing date for nominations is  
**31st December 2017.**

The Award will be announced at the Institution's  
2018 Annual Dinner.

**Nominations** may be made by any  
member of the global maritime community  
and should be forwarded online at:  
[www.rina.org.uk/maritivesafetyaward](http://www.rina.org.uk/maritivesafetyaward)

or by email to:  
[maritivesafetyaward@rina.org.uk](mailto:maritivesafetyaward@rina.org.uk)

Queries about the Award should be  
forwarded to the Chief Executive at:  
[hq@rina.org.uk](mailto:hq@rina.org.uk)

## NOMINATIONS INVITED FOR ELECTION TO COUNCIL

### Corporate Members (Fellows and Members)

Any Corporate Member may nominate a Corporate Member to stand for election to Council.

Each nomination of a Corporate Member must confirm that the nominee is eligible and is willing to stand for election, and contain the signatures of three Corporate Members who support the nomination.

### Non Corporate Members (Associate Members and Associates)

Any Voting Member (all except Student Members and Junior Members) may nominate a Non-Corporate Member for election to Council.

Each nomination of a Voting Member must confirm that the nominee is eligible and is willing to stand for election, and contain the signatures of not less than three Voting Members who support the nomination.

Members are not permitted to sign more than three nominations for election to Council. Nominations should be made by letter to the Chief Executive, to arrive at the Institution's Headquarters by 31 December 2017.

## RINA AFFAIRS

The Institution is not, as a body, responsible for opinions expressed in RINA Affairs unless expressly stated that these are Council's views.

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## Use of the RINA Crest

Members may display the RINA crest on literature, website etc, under the following strict conditions:

- Members must request permission to use the crest, and state where it will be used.
- Only the version of the RINA crest provided by the Institution may be used. No variation or addition may be made to the crest.
- Members displaying the RINA crest are also required to display their membership of the Institution in text and by the use of the appropriate post-nominals.



- The RINA crest may only be displayed on a company website where the company is owned by the member or is a Corporate Partner member of the Institution.
- The RINA crest must not be used in a way as to state or imply the Institution's endorsement of a product or service provided by the member.

**Applications for permission to use the RINA should be made to the Chief Executive at [hq@rina.org.uk](mailto:hq@rina.org.uk)**

### The Royal Institution of Naval Architects

**International Conference:  
Smart Ship Technology**  
23-24 January 2018, London, UK



### Registration Open



Following on from our successful Smart Ship conference the Royal Institution of Naval Architects is organising a second international conference to further explore some of the key issues and themes raised by the first conference.

Developments in both information and communication technologies (ITC) have had a significant effect on many industries within the last decade. However, it is now just starting to impact the shipping industry. ITC will enable some of the most fundamental changes to the way ships are designed and operated. While there are still technical issues to overcome it's the non-technical hurdles such as economic and legal considerations that will define the rate of this progress.

The concept of Smart Ships covers a whole range of possibilities from predictive maintenance, performance optimisation, decision support tools, increased automation and robotics, unmanned remote or autonomous ship operation.

**Register your Place | View the Programme | Sponsorship Opportunities**  
[conference@rina.org.uk](mailto:conference@rina.org.uk) Tel: +44(0)20 7235 4622 Visit the website

**[www.rina.org.uk/smart\\_ships2018](http://www.rina.org.uk/smart_ships2018)**