



RINA AFFAIRS

NOVEMBER/DECEMBER 2019

The Newsletter of the Royal Institution of Naval Architects

CHIEF EXECUTIVE'S COLUMN



Nominations for election to Council in 2020 have now closed, with more than 20 nominations. These elections will be the first to be held following the changes to the By Laws which introduced Regions.

With members in more than 90 countries and 70% of the membership located outside the UK where it was formed, the Institution today is truly an international professional society, as befits an organisation whose members work in an international industry. That internationalism is reflected in all its activities, and in its Branches and Committees. However, the balance of the membership of the Council has historically not fully reflected this internationalism of the membership. The Board, which has responsibility for the overall governance of the Institution, therefore determined that members of Council should be nominated and elected by the members, in proportion to the number of members in the country, grouped into five global Regions. Vice Presidents will be appointed from members of Council to each Region, responsible for representing the Institution and the views of members in the Region.

It is hoped that these changes will encourage members to have greater engagement with and feel greater ownership of their Institution. Such engagement and ownership can be expressed by involvement with the Institution's activities and particularly by encouraging membership of the Institution by their colleagues, students and others who would enjoy the same benefits from membership as they do. A name and email address is all that is required to enable me to send a personal invitation to apply for membership.

And regarding email and postal addresses, I would ask members to keep their addresses and particularly email address up to date. At any one time, up to 200 members' current addresses are not known, resulting in correspondence and magazines 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 magazines from outside the UK. Just as important as missed magazines are the bounced eNewsletters and emails from Headquarters to members with important news.

Changes to any personal details can be made online by visiting MyRINA on the website and amending your Membership Record, or by email to membership@rina.org.uk

And finally, in this last issue of RINA Affairs for 2019, may I take this opportunity to wish all who are celebrating it a Happy Christmas and prosperous New Year.

Trevor Blakeley

IN THIS ISSUE

Chief Executive's Column

Nominations for election to Council in 2020 have now closed, with over 20 nominations. These elections will be the first to be held following the changes to the By Laws which introduced Regions, with members being nominated from and elected by members in a Region.

2020 Membership and Registration Fees

2020 Annual Membership and Registration (where appropriate) Fees Renewal Notices have forwarded by email, with posted copies only to members for whom no email address is held.

Technical Committee News

The Maritime Innovation Committee seeks new members of the Committee. Are you interested?

Publications News

The Institution aims to make full and effective use of available IT and digital media to inform and engage with members of the Institution and the wider maritime community. It achieves this through its publications – Technical Magazines, Transactions, Conference Proceedings, eNewsletters, YouTube, eNewsletters and Social Media.

E-Library + YouTube

Recent additions to the e-Library and YouTube channel include papers and Keynote Speech from the 3rd International Workshop on Waterjet Propulsion.

Letters to the Editor

Includes requests for information on John R Scott and Model Boat Dimensions.

News from the Branches

News from the Branches includes the activities of the NSW and WA Sections of the Australian Division. Members are reminded that they are welcome at meetings outside their home Branch or Section.

COMMITTEE REPORTS

Maritime Innovation Committee

Invitation to new members of the Committee

The Maritime Innovation Committee is a standing technical committee of the Institution. Its role is to identify and inform members of innovative or developing technologies which in due course will have an impact on the design, construction and maintenance of marine vessels and structures. As well as informing members, such information will provide suitable topics for future conferences and articles for the Institution's publications.

Because of the wide scope of the Committee's remit, it has formed the following Working Groups to focus on specific areas of technology: Materials & Coatings; Power Generation and Energy Management; Design & Manufacturing; Hydrodynamics and Propulsors Operations, Maintenance & Training; Maritime Safety & Protection of the Environment; Autonomy, Data, Digital and Cyber; Research, Education & Professional Development; Business & Economics.

Each Working Group has its own page on the Maritime Innovation Group Forum at www.rina.org.uk/Maritime_Innovation_Group.html, reporting on its work and enabling comment and contribution by members of the maritime community. Members of the Committee are members of one or more Working Groups, reflecting their expertise and experience. A report of the Committee's work is also published regularly in RINA Affairs.

The Committee meets four times per year, at RINA Headquarters or by video conference, and work is also done between meetings by email etc.

Having established the structure by which the Committee will carry out its work, the Committee now seeks to extend its expertise by inviting members who have experience in one or more of the Working Groups areas, and are able to contribute to its work, both in and out of Committee meetings, to join the Committee.

Members who are interested in making this valuable contribution to the work of the Institution are requested to contact the Chief Executive at tblakeley@rina.org.uk, with a short description of their experience and identifying the Working Group(s) which they would wish to be associated with. Further information about the Maritime Innovation Group is at: https://www.rina.org.uk/Maritime_Innovation_Group.html

Maritime Environment Committee

The Maritime Design Guidance Document continues to be improved and developed further. A new Aide Memoire to Environmental Design was approved by the Committee to go with the Environmental Considerations document and the Chief Executive will now prepare an updated version of the "Environmental Considerations in the Design of Marine Vessels and Structures" to include the new aide memoir, before sending to all members. The Committee agreed that an illustrated version would be useful and a draft is being prepared.

The committee also discussed the role of Class and other institutions in ensuring that environmental considerations and energy efficiency was taken into account during ship design. It was agreed that the Institution should be more actively involved in these discussions and the Chief Executive was asked to contact IACS and find out more about how the Institution could participate.

It was agreed to include in the Institution's 2020 events programme a conference on "Ship Design With Considerations Of Protection Of Maritime Environment".

2020 Membership and Registration Fees

2020 Annual Membership and Registration (where appropriate) Fees Renewal Notices have been forwarded by email, with posted copies only to members for whom no email address is held.

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. Members experiencing administrative problems are asked to contact accounts@rina.org.uk as soon as

possible after receiving the Notice.

All members are entitled to receive the printed and digital issues of *The Naval Architect*, *Warship Technology* and *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 magazines, whether on a PC or tablet (using the RINA Publications App). Members receiving the digital issue have access to all archived issues. Members are

requested to check their MyRINA page on the Institution's website before paying their 2020 Membership Fee, to ensure they are receiving the correct magazine version or to opt to receive the digital version only.

Members are also asked to review their standing order for magazines and the Transactions (the *International Journal of Maritime Engineering*, the *International Journal of Small Craft Technology*). Members should also decide if they wish to subscribe to *Ship & Boat International* and *Shiprepair & Maintenance*. I would urge all members who do not already do so to consider taking these magazines at little more than P&P cost

MEMBERS IN THE NEWS

Professor Jeom Paik FRINA FREng

Professor Jeom Paik has been elected an International Fellow of the Royal Academy of Engineering.

PUBLICATIONS NEWS

It is the policy of the Institution to make full and effective use of available IT and digital media to inform and engage with members of the Institution and the wider maritime community. It achieves this through its publications – Technical Magazines, Transactions, Conference Proceedings, eNewsletters, YouTube, eNewsletters and Social Media.

Transactions

The reports of scientific and technical research are published online in the IJME and IJSCT.

Technical Magazines

The technical magazines – *The Naval Architect*, *Ship & Boat International* etc – are published online and may also be viewed through the RINA Publications App which may be downloaded from the Google Play Store and Apple Store.

RINA Affairs

Reports on Institution and members' activities are reported in RINA Affairs – the Institution's bi-monthly House Magazine. RINA Affairs may be read as a pdf file or online or on the RINA Affairs App which may be downloaded from the Apple Store and Google Play Store.



Technical Newsletters

The Technical magazines each have their own eNewsletters – *The Naval Architect eNews*, *Ship & Boat International eNews*, etc – publishing significant articles contained in the current issue and material

which did not make it to the magazines. The eNewsletters may be viewed online or through the RINA eNewsletter App, which may be downloaded from the Google Play Store and the Apple Store. Members and subscribers are advised through the eNewsletters and by App notification when a new issue is available for reading.

RINA News

RINA News is the Institution's regular email newsletter to members, reporting on the activities of members and the Institution. Occasional Special Issues of RINA News focus on Publications and Events.

Events News

Full details of the Events programme may be viewed online www.rina.org.uk/events programme, or through the RINA Events App, which may be downloaded from the Apple Store and the Google Play Store.

Conference Proceedings

Delegates to RINA conferences may view access the papers presented at the conference online, together with as the associated Powerpoint presentation, through the Institution's Dropbox account. Selected presentations are published on the Institution's YouTube Channel.

Social Media

The Institution's social media accounts on Facebook, Twitter, Instagram and LinkedIn provide the opportunity to update members and others on the Institution's activities, and for members to engage with the Institution and other members of the maritime community.

Website

Delegates to RINA conferences may view access the papers presented at the conference online, together with as the associated Powerpoint presentation, through the Institution's Dropbox account. Selected presentations are published on the Institution's YouTube Channel.

Website Maritime Group Forums at www.rina.org.uk/Maritime_Groups.html update members and invite comment on the activities of the Technical Committees.

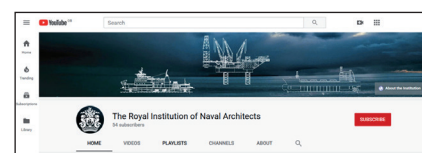
e-Library

Additions to the e-Library include the Proceedings of the 3rd International Workshop on Waterjet Propulsion, held on 2 December in Shanghai. This conference is organised by the Maritime Research Institute of China (MARIC), supported by RINA and Co-Chaired by the Chief Executive.

The Keynote Speech *On The Physical Mechanisms of Cavitation Erosion in Hydraulic Machines* by Dr Mohamed Farhat, Head of Cavitation Research Group at the Laboratory of Hydraulic Machines, Lausanne, Switzerland, may be viewed on the Institution's YouTube Channel.

YouTube

Videos of presentations at conferences, Section and Branch meetings may be viewed on the RINA YouTube Channel. www.youtube.com/channel/UCChb1sfHbWfQmG-iwpp_QGJg



EVENTS NEWS

2019 President's Invitation Lecture

The 2019 President's Invitation Lecture was presented by Simon Schofield, CTO of BAR Technologies. In his presentation Simon describe the Americas Cup technologies and their trickle down to the wider maritime industry The Lecture can be downloaded (pdf file) from Dropbox:

<https://www.dropbox.com/sh/i9avigb0400txzl/AACrQdW-3iA1eMZVa06YFbbua?dl=0>



The modern America's Cup Yacht

RINA at the Shows

The RINA Stand at Marintec China 2019 in Shanghai gave members the opportunity to catch up with the Institution's activities, and for potential members, advertisers and sponsors to learn more about the Institution.



The RINA stand at Marintec China 2019

Marine Forensics Symposium

The Society of Naval Architects and Marine Engineers' Marine Forensics Committee, of which RINA is a member, will be hosting a mini-type symposium in Houston (2020) and Providence (RI) in 2021.

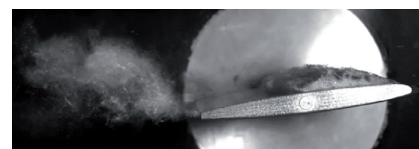
Members who are interested in presenting a paper, participating in a panel discussion or simply attending should contact William H. Garzke, Jr., Co-Chairmen of the Marine Forensics Committee at wgarzke@gmail.com

Any member who is interested in representing the Institution on the Marine Forensics Committee as a corresponding member should contact the Chief Executive at tblakeley@rina.org.uk

IWWP 2019

The 3rd International Workshop on Waterjet Propulsion was held on 2 December 2019 in Shanghai. This conference is organised by the Maritime Research Institute of China (MARIC), supported by RINA and Co-Chaired by the Chief Executive. The Proceedings of the Workshop are available in the e-Library.

The 4th IWWP will be organised by RINA on behalf of MARIC, in London in October 2021.



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.

Editor

The Chief Executive

Production Manager

Nicola Stuart

Published by

The Royal Institution of Naval Architects
8-9 Northumberland Street,
London, WC2N 5DA
UK

Tel: +44 (0)20 7235 4622

Fax: +44 (0)20 7259 5912

Email: hq@rina.org.uk

© The Royal Institution of Naval Architects

only. They are first class magazines 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 magazines 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 magazines

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 magazines from outside the UK.

NEWS FROM THE BRANCHES AND SECTIONS

New South Wales Section

Jonathan Abrahams, Head of Maritime Advisory, and Adam Williams, Plan Approval Group Leader, DNV GL, gave a presentation on *Alternative Fuels and the Propulsion Energy Transition for High Speed and Light Craft* to a joint meeting with the IMarEST attended by 33 on 4 September in the Harricks Auditorium at Engineers Australia, Chatswood.

Alistair Smith, Naval Architect, Capability Acquisitions and Sustainment Group, Department of Defence, gave a presentation on *Acquisition of Australia's Arafura-class Offshore Patrol Vessels* to a joint meeting with the IMarEST attended by 36 on 2 October in the Harricks Auditorium at Engineers Australia, Chatswood.

Phil Helmore

Western Australia Section

The Western Australia Section exhibited at Maritime Day, organised recently by Port of Fremantle. On the stand was a LEGO model, kindly offered by Knud E. Hansen Australia P/L, along with a "model testing facility for ship stability".



The Western Australia Stand at Maritime Day

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

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

LETTERS TO THE EDITOR

Model Boat Dimensions

John R Scott

Sir: Before me is a scale diagram of the Portside View of a ship's hull and scantlings.

From this I wish to double up the dimensions given. The length of the hull is straightforward, but I am not sure if I can do this in respect of the Prow and Stern height from top of Keel. Is there a ratio between the moulded bulwarks dimensions and the length of the hull that draughts men use in laying out a design? If not, how should I treat the moulded dimensions given in respect of the doubling of the hulls length?

Thank you for your attention to this matter, I do hope you can assist me to get an answer to my query to enable me to construct my scale model boat.

Keith Merrick
keithmerrick21@yahoo.co.uk

Sir: I would be most grateful if you could help me with information about my above uncle. He was Chief Physicist at the Vickers Limited Ship Model Experiment Tank, St. Albans, towards the end of the 1960s, beginning of 1970s.

After he died in the seventies, he was posthumously awarded a medal for his work on wave impact to ships' hulls, for which he had published scientific papers and I believe become known internationally.

If you are able to furnish me with any information about him from your archives, and details of the medal, it would be of great help to my investigations into his life's work.

Jeremy Birkett
jeremy@r-birkett.co.uk