



RINA AFFAIRS

JANUARY/FEBRUARY 2018

The Newsletter of the Royal Institution of Naval Architects

CHIEF EXECUTIVE'S COLUMN



May I take this opportunity of the first issue of RINA Affairs in 2018 to wish all members a belated Happy New Year (less belated for Chinese members!).

Over the past year I have again had the pleasure of meeting members (and some soon to become members) in some of the countries where the Institution is represented at all levels in universities, industry and maritime organisations. My visits to some of the 70+ universities where the Institution has links and the many companies in all sectors of the maritime industry where members work has left me in no doubt as to the standing which the Institution enjoys in the international maritime community.

The Institution has members in 97 countries, demonstrating conclusively that the Institution is truly an international organisation. The decision of those involved at all levels in the design, construction, maintenance and management of marine vessels, from Australia to Azerbaijan, to become members is confirmation that membership provides an internationally recognised demonstration of the highest standards of professional competence. Their membership also confirms the value which they place upon the Institution's international publications and conferences, providing the relevant and up to date information on developments across all sectors of the global maritime industry which is essential to maintaining that competence.

Few members of the maritime industry would deny the standing which the Institution's range of technical journals enjoy amongst the many similar publications which serve the industry worldwide – some better than others in terms of their accuracy and independence. The internationalism of the Institution's journals is reflected in their distribution in over 100 countries, giving them a truly global circulation. The introduction of *The Naval Architect eNews* and *Offshore Marine Technology eNews*, joining *Ship Repair eNews* and *Ship & Boat eNews*, provided further access to technical developments in the maritime industry.

The Institution's conferences also continue to enjoy a high reputation for their quality of both content and organisation. The global location of the conferences also serves to demonstrate the internationalism of the Institution, with conferences organised or co-organised by the Institution in the UK, Australia, Singapore, the Netherlands, Indonesia, Italy and China.

It has been a challenging year for the Institution, reflecting the challenges faced by the maritime industry, of which I am sure members will be only too aware. Notwithstanding such challenges, the Institution has maintained its standing in the international maritime industry which, I believe, is unmatched by any professional society serving the professional needs of those involved in the design, construction and maintenance of marine vessels and structures. I make no apology for beating the drum for the Institution, and I invite all members to do the same in whatever way they can. Membership is surely something to be proud of.

Finally, on your behalf, I would like to thank the other members of the Headquarters team for the contribution they have made to the success of the Institution over the past year.

Chief Executive

IN THIS ISSUE

2018 AGM

The 2018 Annual General Meeting will be held on 12 April 2018 at the Institution's Headquarters.

2018 Annual Dinner

The 2018 Annual Dinner will be held on 12 April at the Royal Lancaster London Hotel.

New Members Wanted

The Chief Executive asks members for their support in encouraging their colleagues to follow their lead in becoming a member of the Royal Institution of Naval Architects.

2018 Membership Fees

Members are reminded that their 2018 Membership and Registration (if appropriate) Fees were due on 1 January 2018. Members who did not receive a Fees Notice are requested to contact Accounts@rina.org.uk as soon as possible to avoid their membership being lapsed for non payment.

e-Library

The e-Library provides a one-stop access to journals, published and unpublished papers, reports, presentations etc, available to members.

Technical Committees

The Maritime Environment Committee and Maritime Innovation Committee report on their activities since their formation, following the review of the Technical Committees Structure.

Linkedin and Maritime Group Forums

Members are urged to subscribe to the Linkedin and Maritime Group Forums

Student Awards

The Institution congratulates those students whose achievements have been recognised by the Institution's Awards.

2018 Annual General Meeting

NOTICE IS HEREBY GIVEN THAT IN ACCORDANCE WITH BY-LAWS 39 AND 42, THE ANNUAL GENERAL MEETING OF THE INSTITUTION WILL BE HELD AT 8-9 NORTHUMBERLAND STREET, LONDON, WC2N 5DA, ON 12 APRIL 2018 AT 1100 FOR THE FOLLOWING PURPOSES;

1. To receive the Annual Report and the Financial Statement for the year ended 30 September 2017.

2. To consider and if felt fit, approve the following Resolution:

Resolution 1: To elect Professor R W Birmingham as the President of the Institution.

Resolution 2: To re-appoint haysmacintyre as the Institution's auditors

Note.

1. All members have the privilege to attend the above meeting, but only Voting Members are entitled to vote on the Resolutions.
2. Members entitled to vote on the Resolutions may appoint the Chairman of the meeting as their proxy to vote on their behalf.
3. Proxy Forms are available online at www.rina.org.uk/p/1/2018%20AGM%20Proxy%20Form.pdf and must be returned by post or email, to arrive by 1030 on 12 April 2018

2018 Annual Dinner

The 2018 Annual Dinner will held on 13 April at the Royal Lancaster London hotel. Tickets may be obtained from Sally Charity at scharity@rina.org.uk

2018 Annual General Meeting

1. President opens the AGM
2. Annual Report of Council
3. Financial Statement for 2017
4. AGM Resolutions
5. 2018 Elections to Council
6. 2017 Medals and Prizes
7. President's Report
8. General Discussion
9. President closes the AGM

Following the AGM, a presentation will be given by Dr Alan Murphy of Newcastle University, entitled "Where there's smoke there's fire! - Research initiatives for reducing exhaust emissions from ships."

Following the presentation, a buffet lunch will be available for those attending the AGM. To assist is catering, members are asked to let Sally Charity know if they would like lunch.

INSTITUTION NEWS

New Members wanted

An open letter to all members

Dear member,

As a member, you will be aware of the benefits and service which membership of the Royal Institution of Naval Architects provides. In particular, you will be aware that membership provides a professional qualification which is recognised throughout the global maritime industry as demonstrating the achievement of the highest standards of professional competence and integrity. You will also be aware that membership provides access to information on developments in all aspects of the maritime industry through the Institution's international conferences and publications which members receive free or at a reduced cost.

I am therefore writing to ask for your support in encouraging your colleagues to follow your lead in becoming a member of the Royal Institution of Naval Architects and enjoying the benefits of membership of the world's leading professional institution for those involved in the design, construction and maintenance of marine vessels and structures at all levels. I would be grateful if you would let me know (by email to hq@rina.org.uk) the name, position and email address of any of your colleagues who you would wish to introduce as a member. Such potential members could include those at any stage in their career, whether newly graduated or more senior and experienced.

*Trevor Blakeley
Chief Executive*

e-Library

The e-Library provides a one-stop access to journals, published and unpublished papers, reports, presentations etc, available to members. The e-Library may be accessed at www.rina.org.uk/MyRINA/e-Library

Members wishing to submit an item for inclusion in the e-Library should forward it to hq@rina.org.uk. Where such items are subject to copyright, permission must be obtained before submission.

Membership Survey

There has been an excellent response to the Membership Survey - both the quantity and quality of suggestions.

The Survey showed a high level of satisfaction with the role and activities of Institution. 94% of members who completed the Survey considered that the current Objectives were correct and would continue to be relevant for the next 10-15 years, ie:

- Setting standards of professional competence and integrity.
- Encouraging membership at all levels
- Enabling the exchange of technical information.
- Contributing its collective expertise to the benefit of society

However, the Survey also demonstrated to review the means by which these Objectives would be achieved and what changed would be needed to reflect the changes in the maritime industry and the professional needs of the members.

Key benefits of membership were shown to be the internationally recognised professional qualification, demonstrating the achievement of the highest standards of professional competence and integrity, and the access to up to date, credible information on information on developments in the maritime industry.

The survey showed a number of themes that the Institution will need to address if it is to meet the needs and expectations of the members, the maritime industry and society. These include:

- Membership
- Improve inclusivity and diversity to reflect the future demographics
- Outward facing
- Create an open, welcoming and outward looking face to all possible stakeholders in order to increase RINA's traction across the sector
- "Digital RINA"
- Adopt new and developing means of digital communication to provide the Membership with efficient information dissemination and learning platforms

- Conferences & Publications
- Focus on the future challenges for the sector with a wider range of events, improve the accessibility of conferences to members and encourage high quality of papers
- Employers
- Make RINA's activities more valuable to members' current and prospective Employers in order to improve recognition and increase in support for members fees

These themes will be addressed over the next year.

Comments on the coverage of the Institution's journals were particularly welcome and valuable, and will be addressed to their Editors.

Resignation of the President

Mr Tom Boardley has submitted his resignation as President of the Institution and Chairman of the Board of Trustees, with immediate effect. He has found that he is unable to devote the time to those positions which he would wish and considers necessary. Until the election of the next President at the AGM in April, the duties of President and Chairman will be carried out by the senior Vice President and Vice Chairman of the Board respectively.

Linkedin

The RINA Group on the online professional networking site LinkedIn provides a forum for the (12,700) members of the Group to seek or provide technical information, or to discuss matters of professional interest. The Group has a no advertising policy.

To join the LinkedIn group, go to www.linkedin.com/groups?mostPopular=&gid=3077992 or follow the link from the RINA website home page at www.rina.org.uk

INSTITUTION NEWS continued

Maritime Group Forums

The following online Maritime Group Forums provide members with an opportunity to identify and discuss technical developments. Details of relevant Institution activities, including the work of the appropriate Technical Committee, together with published reports and other matters of interest will also be published on the Group Forums.

- Maritime Safety Group at www.rina.org.uk/Maritime_Safety_Group1.html
- Maritime Environment Group at www.rina.org.uk/Maritime_Environment_Group.html

- Maritime Innovations Group at www.rina.org.uk/Maritime_Innovation_Group.html
- IMO Group at www.rina.org.uk/IMO_Group.html
- Small Craft Group at www.rina.org.uk/Small_Craft_Group.html
- High Speed Vessels Group at www.rina.org.uk/High_Speed_Vessels_Group.html

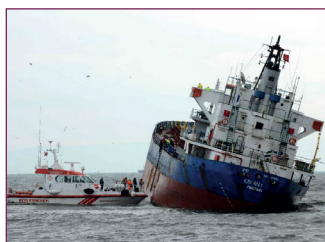
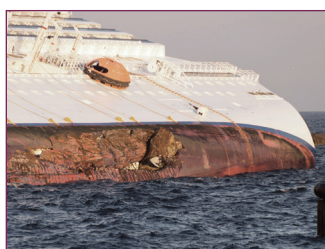
Members are urged to register for one or more of the Maritime Group Forums. They may also opt to receive notification of new items.

QUOTE OF THE MONTH

"The behaviour of ships on stormy seas is so hard to be understood and so important to be predicted, that it is worth any amount of hard thinking, and painstaking observation, and subtle reasoning we can expend on it" ,

J. Scott Russell, 1863.

The Royal Institution of Naval Architects International Conference: **Damaged Ship IV** 16-17 May 2018, London, UK



Call for Papers

Recent incidents at sea have shown that investigations and understanding of the behaviour of damaged ships are as important as ever. Significant progress has been made over the last 10 years but there still remain numerous scientific and practical challenges.

After any major accident it is imperative to rapidly quantify the damage, assess damage stability and the residual strength of a vessel. Damage stability appraisal must also consider the likelihood of progressive flooding, the effect of the mass and motion of flood water within the vessel, capsizing probability and effect of waves on stability. There is a need to consider both the global strength capability of the ship structure and the local residual strength of damaged and buckled plating and the effect of flooding on internal structure.

Please submit your abstract before 15th January 2018

Register your Interest | Submit an Abstract | Sponsorship Opportunities
conference@rina.org.uk Tel: +44(0)20 7235 4622 Visit the website

www.rina.org.uk/Damaged_Ship_IV

2018 EVENTS PROGRAMME

SMART SHIP TECHNOLOGY

23-24 January, London, UK
www.rina.org.uk/Smart-Ships2018

SURV 9 - SURVEILLANCE, SEARCH AND RESCUE CRAFT

18-19 April, London, UK
www.rina.org.uk/Surv_9

ANNUAL DINNER

12 April, London, UK
www.rina.org.uk/Annual_Dinner_2018

CONTRACT MANAGEMENT FOR SHIP CONSTRUCTION, REPAIR & DESIGN COURSE

9-11 May, London, UK
www.rina.org.uk/Contract_Management_Course_May_2018

DAMAGED SHIP IV

16-17 May, London, UK
www.rina.org.uk/Damaged_Ship_IV

BASIC DRY DOCK TRAINING COURSE

5-8 June, London, UK
www.rina.org.uk/Basic_Drydock_Course_June_2018

WARSHIP 2018: FUTURE SURFACE VESSELS

20-21 June, Bath, UK
www.rina.org.uk/Warship_2018

HUMAN FACTORS

26-27 September 2018, London, UK
www.rina.org.uk/Human_Factors2018

EDUCATION AND PROFESSIONAL DEVELOPMENT OF ENGINEERS IN THE MARITIME INDUSTRY

12-13 October 2018, London, UK
www.rina.org.uk/EPD_2018

FULL SCALE PERFORMANCE

24-25 October 2018, London, UK

HISTORIC SHIPS

5-6 December 2018, London, UK

News from the Divisions and Branches

Malaysian Joint Branch

The 2017 Annual General Meeting of the Malaysian Joint Branch at the Hotel Istana attracted the largest attendance for the AGM in recent years. This, coupled with the increase in membership numbers, is a good indication of growth in both quantity and quality of the Joint Branch community in Malaysia.

The elected Officers of the Joint Branch Committee are published on the Joint Branch page of the RINA website at www.rina.org.uk/malaysian_joint_branch.html

Use of the RINA Crest



The Council has agreed that 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 RINACrest@rina.org.uk

QUOTE OF THE MONTH

First rule of engineering: beware prototypes. Along with, avoid anything made by an engineer who doesn't have all his own fingers"
Simon R. Green

Event News

2017 Presidents Invitation Lecture

Mr S.C. James Tai, Technical Director of Orient Overseas Container Line Ltd, Orient Overseas Container Line Ltd, presented the 2017 President's Invitation Lecture. In his Lecture, he described the challenges of designing and constructing a 21,000TEU Boxship – the largest in the world.

The Presentation and photos from the President's Invitation Lecture can be viewed at [click here](#).

Maracad 2017

The Chief Executive, Mr Trevor Blakeley, gave a keynote presentation to the Maritime Academic Conference 2017 in Dubai, on "The Role of a Modern Professional Society in the Education and Professional Development of Engineers in the Maritime Industry." The conference was supported by the Institution.

MARACAD 2017



In his presentation, he noted that the historic role of engineering professional institutions such as the Royal Institution of Naval Architects has been to promote and facilitate the exchange of technical and scientific information, views and discussion, and through this to influence and contribute towards furthering the knowledge and standards within their particular discipline of engineering. Professional institutions today have a wider and more proactive part to play in helping to provide the engineers with the knowledge, understanding and professional skills who are essential to the future success of the maritime industry. He examined the pivotal role a modern professional institution plays in the education and professional development of engineers. He also examined the responsibility which a professional institution has to its members, academia, industry, and society. The full paper of his presentation can be read at [click here](#).

Power & Propulsion Alternatives for Ships

For the second year, at the invitation of the organisers of Europort, Rotterdam, the Institution organised the International Conference on the Power & Propulsion Alternatives for Ships. The conference attracted



Delegates at the International Conference on the Power & Propulsion Alternatives for Ships

70+ delegates from 10 countries. Selected papers presented will be considered for the *International Journal of Maritime Engineering*.

International Conference on the Design, Construction and Operation of LNG/LPG Ships

The International Conference on the Design, Construction and Operation of LNG/LPG Ships, organised by the Institution in Glasgow, attracted 60+ delegates. Selected papers will be considered for the *International Journal of Maritime Engineering*.

A similar conference will be jointly organised by the Institution and the Hellenic Institution of Maritime Technology, in Athens in 2018.

International Workshop on Waterjet Propulsion

The Chief Executive, Mr Trevor Blakeley, co-chaired and presented a Keynote Speech on the role of the maritime engineer in utilising innovation in the maritime industry at the International Workshop on Waterjet Propulsion, organised jointly for the second year with the Chinese research organisation MARIC in Shanghai.

Papers presented at the IWWP may be read at [click here](#). Selected papers will be considered for publication in the *International Journal of Small Craft Technology*.

Delegates at the International Conference on the Design, Construction and Operation of LNG/LPG Ships



NEWS FROM THE TECHNICAL COMMITTEES

Maritime Environment Committee

“The Maritime Environment Committee was formed following a review of the Institution’s standing Technical Committees. The Committee is tasked by the Council with making the collective technical expertise of the Institution available for the benefit of the profession and society by contributing to the protection of the maritime environment and the sustainable use of resources.

In its first meetings, the Committee has sought to list those aspects of the design, construction and operation of marine vessels and structures which can have an impact on the maritime environment and the use of resources, identify what that impact is and determine what actions might be taken to mitigate it. In due course, this list will serve to prioritise the use of the Committee’s resources. It will also provide an “aide memoire” for those members and others in the

maritime industry who are involved in the design, construction and operation of marine vessels and structures, as a means of improving their knowledge and understanding of how to protect the maritime environment and make more sustainable use of resources.

Comments on the work of the Maritime Environment Committee can be posted on the Maritime Environment Group Forum at www.rina.org.uk/Maritime_Environment_Group.html

Maritime Innovation Committee

Also formed following a review of the Institution’s standing Technical Committees, during its early meetings the Maritime Innovations Committee has discussed at length the areas in which the innovative and emerging technologies will have an impact on the industry, the profession and the Institution across all sectors in the immediate future and long term.

The following themes have been identified:

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

Education and Research were considered to cut across all themes and sectors.

The Committee has now established a number of individual sub-groups for each theme looking at the emerging technologies which could have an impact on the Institution’s members.

Comments on the work of the Maritime Innovation Committee can be posted on the Maritime Innovation Group Forum at https://www.rina.org.uk/Maritime_Innovation_Group.html

NEWS FROM THE UNIVERSITIES

RINA – Bureau Veritas Student Award

The 2018 RINA – Bureau Veritas Student Award was awarded to Benjamin Trouillard whose thesis “*Hydrocarbon Seepage Source Detection Using Real Time Sea Glider Observations*” was adjudged to be the best final year thesis at ENSTA ParisTech.

RINA – BMT Design Award

The 2018 RINA – BMT Design Award at Southampton University was awarded to:

Ilias Papadopoulos, Cameron Owens, Vebjorn Oftedal and Alexandre Nour whose design for a “*Small Fast Ferry*” was adjudged to have been the best presented Marine Craft Concept Design Project.

RINA AFFAIRS

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

Editor Trevor Blakeley, chief executive
Design/Production Manager Sandy Defraigne

Published by The Royal Institution of Naval Architects
8-9 Northumberland Street, London, WC2N 5DA
Tel: +44 (0)20 7235 4622
Fax: +44 (0)20 7259 5912
Email: hq@rina.org.uk

© The Royal Institution of Naval Architects