



# RINA AFFAIRS

OCTOBER/NOVEMBER 2013

The Newsletter of the Royal Institution of the Naval Architects

## CHIEF EXECUTIVE'S COLUMN



**T**his month saw the start of the careers of many engineers as first year students at universities and colleges in the northern hemisphere, joining those in the southern hemisphere who have already started their naval architecture or related courses. A large number of students at the now 60+ universities and colleges where the Institution has links through membership of staff and students will benefit over the next 2 to 4 years from the Institution's policy of encouraging their membership and active involvement as Student Members.

As Student Members, some will enjoy free membership during their time at university or college and all will receive the Institution's journals. They will also enjoy many other benefits such as the increased number of free places at RINA conferences, sponsored by both industry and the Institution. (The Institution continually seeks to increase the number of sponsored places – members who think that their companies would be willing to sponsor a place should contact the Chief Executive for further information) Some will receive the RINA Student Awards. These Awards, which are sponsored by industry, recognise academic excellence of both undergraduates and postgraduates, and are now presented at 39 universities.

Having experienced the benefits of membership whilst at university or college, hopefully Student Members will recognise the value and importance of membership of the Institution to their professional development and future careers, and continue their membership when they start to receive annual fees notices as Associate Members. However, the Institution recognises the financial pressures on newly graduated members, and the first fee will not be due until 1 January of the year following graduation. Those who continue in full-time study as Associate Members will receive a 50% reduction in their membership fees.

Associate Members will find that employers worldwide recognise the added value which membership of the Institution as an Associate Member provides. They will welcome the early commitment to achieving the Institution's high professional standards which membership demonstrates, and in the longer term, both industry and the profession will benefit from members' implicit acceptance of the requirement to continue their professional development throughout their working lives.

The Institution's policy with regard to the younger members of the Institution continues to represent a significant investment in the future of both the Institution and the profession. However, I am sure that none would doubt its wisdom and necessity. The Institution is grateful to members of staff at the universities and colleges for encouraging students to become Student Members, and for their support of the Institution's various awards.

And finally, may I remind all members with sons and daughters (or nephews and nieces, grandsons and granddaughters) still at school and who may be contemplating a career in ship or boat design and construction, or just have an interest in maritime matters, that they would be most welcome as Junior Members. I am sure that their interest would be maintained by receiving the Institution's journals each month. The Annual Fee of £27 can be charged to members.

*Chief Executive*

## IN THIS ISSUE

### **Council elections**

Nominations for election to Council in 2014 are invited.

### **Board of Trustees**

Council has appointed members to the Board of Trustees

### **Awards**

Nominations are invited for the 2013 RINA – QinetiQ Maritime Innovation Award and the RINA – Lloyd's Register Maritime Safety Award

### **New members wanted**

Do you have a colleague involved in the design, construction or maintenance of marine vessels and structures who is not a member of the Institution? An email to the Chief Executive can change that

### **Corporate Partners wanted**

Does your company require and encourage high professional standards by its engineers, but is not a Corporate Partner member of the Institution? An email to the Chief Executive can change that

### **Future Ship Powering Options**

The UK Academy of Engineering has published a report on Future Ship Powering options showing how alternative fuels can be harnessed to reduce shipping's global emissions

### **Quote for the Month**

Who said "It is true that improved results in ship-building have been obtained through accumulated experience; but it unfortunately happens that many of the theories by which this experience is commonly interpreted are interwoven with fundamental fallacies, which, passing for principles, lead to mischievous results when again applied beyond the limits of actual experience"

## Corporate Partners

**D**oes your company or organisation, be it large or small:

- help and encourage its naval architects to achieve professional recognition through membership of RINA in the appropriate class of membership.
- assist its naval architects to achieve the standards of professional development and responsible experience required for Corporate membership of RINA.
- require and assist its naval architects to continue their professional development.

If so, your company or organisation may be eligible to become a Corporate Partner of the Royal Institution of Naval Architects and enjoy the following benefits:

- The right to show this “corporate professional qualification”, including the RINA Corporate Partner logo, on company literature, thereby providing an internationally recognised demonstration of the professional quality of the company’s employees and its commitment to maintaining that quality.
- Advice on the development on Company Professional Development Schemes and free accreditation of Schemes.
- A discount on RINA international conferences and training courses attended by all employees of the company or organisation, giving them the opportunity to network with other professionals in the global maritime industry.
- Use of the Institution’s headquarters facilities at preferential rates, including the meeting rooms, lecture theatre, conference facilities and library.
- Complementary copies of the Institution’s leading technical journals, and a discount on the purchase of other RINA publications.

- Listing on the Corporate Partners page of the Institution’s website with a link to the company’s website.
- ‘Welcome’ advertisement in journal of choice. Other PR and promotional opportunities through RINA conferences and publications.
- Opportunity to present technical papers at RINA conferences or publish them in technical journals.
- Discount on exhibition stands and sponsorship at RINA conferences.
- Access to national branch meetings, giving opportunity to meet with professionals in the local maritime industry.
- Complementary invitations to the Annual Dinner and President’s Invitation Lecture.

In addition to these benefits, Corporate Partner membership of the Royal Institution of Naval Architects will enhance the reputation and image of a company with its customers and the industry generally. Also, both prospective and existing employees will value more highly an employer who is committed to the high professional standards and personal development demonstrated by Corporate Partner membership, thereby benefiting both recruitment and retention.

*Further information on becoming a Corporate Partner may be obtained from the RINA website at [www.rina.org/corporatepartners](http://www.rina.org/corporatepartners), including a list of those companies who have already become Corporate Partners, or from the Chief Executive at [hq@rina.org.uk](mailto:hq@rina.org.uk) or tel: +44 (0)20 72354622.*

### THOUGHT FOR THE MONTH

Anyone can hold the helm when the sea is calm.

*Publius Syrus*

## Nominations are invited for election to Council in 2014

### 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 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 Non Corporate Member must confirm that the nominee is eligible and 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 nomination for election to Council. Nominations should be made by letter to the Chief Executive, to arrive at the Institution’s Headquarters by 31 December 2013.

### Appointments to the Board of Trustees

The Council has appointed the following members of the Board of Trustees:

- Mr P French (Chairman)
- Mr N Pattison (Vice Chairman)
- Mr A Marsh (Treasurer)
- Mr B Rosenblatt
- Mr E Tupper
- Mr J Frier
- Professor P Wrobel
- Mr R Gehling
- Professor R Birmingham
- Mr A King
- Captain H F Spencer
- Professor D Andrews

## 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](mailto: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.

In return for your assistance I would be pleased to offer you a year's free subscription to the Institution's Transactions (the *International Journal of Maritime Engineering* and the *International Journal of Small Craft Technology*) or any of the Institution's other journals, following the application and election of anyone you might propose (excluding Student and Junior Members).

Chief Executive

## Design for Safety: Risk-Based Design Life-Cycle Risk Management

A presentation by Professor D Vassalos of the Ship Stability Research Centre given to the Safety Committee's Passenger Ship Safety Working Group described the process of Risk-Based Design Life-Life-cycle Risk Management as a formal process providing a holistic framework, to embrace all phases of the life-cycle of the vessel from design (risk reduction/mitigation) to operation (management of residual risk) and emergency response (preparedness/crisis

management), leading to safety assurance in the most cost-effective way possible.

Such a formal process facilitates measurement of safety performance, which constitutes the kernel for continuous safety improvement and the foundation for instigating and sustaining a safety culture in the maritime industry.

The presentation may be downloaded from the Safety News page at [www.rina.org.uk/safety\\_news.html](http://www.rina.org.uk/safety_news.html)

## Future ship powering options

Today the international shipping industry faces real challenges. The escalating cost of fuel presents operators with increasing running costs, while global negotiations to tackle climate change are likely to compound existing environmental regulations with the onset of carbon taxes for the sector.

The UK Engineering Academy has published a report which presents the potential for emerging engineered technologies to meet these challenges: showing how alternative fuels can be harnessed to reduce shipping's global emissions, drive down running costs and provide reliable and sustainable methods of ship propulsion capable of facilitating the sector's continued growth.

The report considers a range of short, medium and long-term options for ship propulsion, from the efficacy of diesel engines, through the potential for biofuels, LNG and hybrid propulsion to ships powered by nuclear energy. The Report may be read at: [www.raeng.org.uk/news/publications/list/reports/Future\\_ship\\_powering\\_options\\_report.pdf](http://www.raeng.org.uk/news/publications/list/reports/Future_ship_powering_options_report.pdf)

## Code Of Professional Conduct

The By Laws requires that "every member of the Institution shall so order his conduct as to uphold the dignity and reputation of the Institution and shall observe the provisions of the Charter and these By-Laws." Every member is further constrained to "order his conduct as to uphold the dignity and reputation of his profession and to safeguard the public interest in matters of safety and health and otherwise." A member is required to "exercise his professional skill and judgement to the best of his ability and discharge his professional responsibilities with integrity."

The Council's rules governing professional conduct and disciplinary procedures are published in the Institution's Code of Professional Conduct. This may be downloaded from the Members' Only page of the RINA website at [www.rina.org.uk/members](http://www.rina.org.uk/members)

### THOUGHT FOR THE MONTH

"He that embarks on the voyage of life will always wish to advance rather by the impulse of the wind than the strokes of the oar; and many fold in their passage; while they lie waiting for the gale.

Samuel Johnson

QUOTE OF THE MONTH

"It is true that improved results in ship-building have been obtained through accumulated experience; but it unfortunately happens that many of the theories by which this experience is commonly interpreted are interwoven with fundamental fallacies, which, passing for principles, lead to mischievous results when again applied beyond the limits of actual experience"

*William Froude, 1875*

## Chennai Branch

At a recent technical meeting of the Chennai Branch, Dr P Ananthakrishnan, Florida University, USA, gave a presentation "Vortex Lattice Analysis of a Gulf Stream Turbine."



## 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 Royal Institution of Naval Architects – QinetiQ 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 (fbc).

Nominations are now invited for the 2013 Maritime Innovation Award. Individuals may not nominate themselves, although employees may nominate their company or organisation.



**QinetiQ**

- 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 **31 December 2013**
- Queries about the award should be forwarded to the Chief Executive at [hq@rina.org.uk](mailto:hq@rina.org.uk)