



RINA AFFAIRS

JULY/AUGUST 2016

The Newsletter of the Royal Institution of Naval Architects

CHIEF EXECUTIVE'S COLUMN



Next month will see 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 free places at RINA conferences, sponsored by both industry and the Institution. (The Institution continually seeks to increase the number of sponsored places – if you think that your company would be willing to sponsor a place, please contact me for further information) Some will receive RINA scholarships, prizes and awards, including 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 £32 can be charged to members.

Chief Executive

IN THIS ISSUE

Letters to the Editor

Letters to the Editor include requests for information about early women members of the Institution. Can you help?

People in the news

The achievements of students at Newcastle University (Singapore Campus) and the Malaysian Technical University are recognised by RINA Student Awards. Jack Brown joins the elite band of members who have 60+ years' membership of the Institution.

The Role of a Modern Professional Institution

The Chief Executive gives his views on the role of a modern professional institution. Do they match yours? If not, please let him know

Agreement of Co-operation

The Institution has renewed its Agreement of Co-operation with the Asociación De Ingenieros Navales Y Oceánicos De España

StudentRINA

Student Members may now show their membership of the Institution by the use of the designatory letters StudentRINA after their name. Do you use the letters FRINA, MRINA, AMRINA or AssocRINA to show your pride in your Institution?

Denny Room

The Denny Room, housing the Institution's library, and other rooms may be hired by members for meetings, conferences etc at a discounted rate.

Engineering Council

The Institution's Licence with the UK Engineering Council has been renewed

RINA Maritime Awards

Nominations for the 2016 Maritime Safety Award and Maritime Innovation Award are now invited.

People in the news

60 Years' Certificate

Jack Brown joins the elite group of members who have been members of the Institution for 60+ years. The Chief Executive, Trevor Blakeley, presented Jack with his 60 Years' Certificate during his recent visit to Headquarters.



RINA – BAE Systems Awards

Newcastle University

The following students were awarded the 2016 RINA-BAE Systems Student Award for the best final year projects in the Naval Architecture, Offshore Engineering and Marine Engineering streams of the BEng (Hons) at the Singapore campus of Newcastle University:

Peh Chu Ming

Simulation of Wind Turbine Farm

Muhammed Nazhim Khan Bin Abdul Rahim

A Numerical Study on the Effects of Wave Slamming Forces on Vertical Columns

Siti Aishah Bte Yahya

Investigation of the Effect of Dimpled Hull Surface on Ship Viscous Drag Reduction

Technical University of Malaysia

The RINA Student Award for the best final year project was awarded to **Adelina Steven** for her project *Hybrid power boat design study*. Other students whose projects were commended were **Nadzmer Azrai bin Mohd Fauzi**, **Muhammad Azam Azraei bin Abdul Rahim**, **Mohamed Khairi bin Mohamed Shakif** and **Mohamad Amir Fikri bin Yahya**.



Final year students at UTM

THOUGHT OF THE MONTH

I went down with the ship but I kept my mouth shut so I didn't drown like the rest of them.

Unknown

University news

University of Malta

During a recent visit to the University of Malta, Mr Trevor Blakeley, Chief Executive of the Royal Institution of Naval Architects, presented the certificate of course re-accreditation (2015-2019) to the University for the undergraduate Structural Mechanics and Thermo-Fluids Engineering Stream in the B.Eng. (Hons) in Mechanical Engineering.

The collaboration between the University of Malta and the Royal Institution of Naval Architects commenced in 2009, with the introduction of the first study units in Maritime Engineering in the undergraduate B.Eng. (Hons) in Mechanical Engineering. The course was first accredited in 2010 and has successfully gained re-accreditation until 2019. The accreditation enables the graduate students to attain corporate membership in this internationally renowned professional institution.

Accreditation also enables the B.Eng. (Hons) in Mechanical Engineering to be listed in the Maritime Courses Directory alongside all other RINA accredited international maritime courses.

The Institution also presents the annual Student Naval Architect Award for the best Maritime Engineering related final year project. Certificates of Achievement are also presented to the students who have also presented a notable final year project within this field of study.

StudentRINA

Council has approved the use of the designatory letters StudentRINA by Student Members, to demonstrate their membership of the Institution.

Members may also signify their membership of the Institution by the letters FRINA, MRINA, AMRINA or AssocRINA after their names. In doing so, they demonstrate that they have achieved or are working to achieve the high standards of professional competence demanded by the requirements for membership, and which are recognised as such by the international maritime industry. By doing so, they also demonstrate their commitment to maintaining those standards through their continuing professional development, and their acceptance of the Institution's Code of Conduct. Membership of the Institution does not come easily and is surely an achievement to be proud of.

However, when meeting members, I am surprised how many do not demonstrate their achievement by displaying the appropriate letters on their website, correspondence and business cards. This also serves to promote the Institution. May I therefore invite such members when next having stationary or business cards printed or updating their website to ensure that their membership of the Royal Institution of Naval Architects is proudly displayed.

Chief Executive

Where to stay in London

Members and their guests visiting London on business or pleasure may take advantage of the Institution's membership of Club Quarters to stay at its Trafalgar Square Hotel, situated at 8 Northumberland Avenue, less

than one minute's walk from RINA Headquarters.

The Institution's membership provides a fixed lowest rate of £159 per room which is always available to conference delegates, regardless of the varying

higher rates throughout the year for non members. An even lower rate is available only for Institution members and guests at weekends (Fri, Sat and Sun) and holidays (£69). Guests do not need to be accompanied by the member.

Other benefits include access to the Club Living Room with complimentary refreshments, WiFi and unlimited chilled, purified bottled water, and a Rewards Programme offering a "Night on the House" after just one stay.

Members may find details of the facilities offered by Club Quarters Trafalgar Square or book online at <http://clubquarters.com/royal-ins-naval-architects>, using the login "RINA" (without the quotes) on their first visit and selecting Trafalgar Square from the choice of hotels.

Members and their guests who wish to take advantage of the lower rate at weekends, which is not shown online, should contact ClubQuarters at +44 (0)20 7451 5800



The Institution Library

The Denny Room houses the Institution collection of 3000 books covering a wide range of topics in the design, construction and management of marine vessels and structures. The library catalogue may be viewed online at <https://cloud.collectorz.com/rina/books>

Books are not available on loan, but members are most welcome to visit the Denny Library at any time when not in use for meetings, conferences, etc. Please check with Sally Charity at 020 7235 4622 or scharity@rina.org.uk to check its availability.

The Denny Room

The Denny Room, named after Sir Archibald Denny is the main public room at the Headquarters.

Archibald Denny was a member of the Denny family who had been involved in shipbuilding in Dumbarton from the early 19th century. William Denny & Sons built over 1500 ships at their Dumbarton yard between 1844 and 1963. They built all types of ships but were particularly well known as builders of fine cross-channel steamships and ferries. Always innovators they were responsible for a number of firsts, including Rotomahana (1878) - the first all steel merchant ship; King Edward (1901) - the first commercial turbine steamer; Robert the Bruce (1834) - the first all welded vessel. Denny's was the first commercial yard to use a Ship Model Experiment Tank. In charge of technical developments at the shipyard, Archibald Denny was closely associated with Denny's international reputation for innovation and high quality ship design.

The Denny Room may be hired by members for meetings, conferences etc at a discounted rate. For details of availability and cost, contact Sally Charity at scharity@rina.org.uk Other Headquarter meeting facilities can be seen at www.rina.org.uk/Conference_and_Meeting_Facilities.html



The Denny Room, housing the Institution's library



The Role of a Modern Professional Society

In a recent interview by Safety4Sea at Posidonia, the Chief Executive, Trevor Blakeley, gave his views on the role of a modern professional society such as RINA, how it could contribute to the success of the maritime industry, what it could do to attract young engineers into the maritime industry, and

what contribution it could make to improving maritime safety and protecting the maritime environment.

The interview can be viewed at <https://goo.gl/B8BBTs> A transcript of the Interviewer can be read at www.safety4sea.com/interview-with-trevor-blakeley-rina/

Letters to the Editor

Women in Shipbuilding

Sir: I am helping the Women's Engineering Society to develop more knowledge about the history of women in engineering in preparation for the WES centenary in 1919. As part of this work I am indexing the recently digitised issues of The Woman Engineer from 1919 onwards and have come across a brief mention of a Miss M. Scatcherd:

"Miss Scatcherd is a shipbuilding engineer working in Glasgow, and is an Associate Member of the Institute of Naval Architects."

Her field of work is sufficiently unusual for a woman in that period to make me curious to find out more about her, and I would be grateful for any information which members might have on Miss Scatcherd.

I have also read that Miss Rachel Parsons, Miss Keary and Miss B. C. Thornycroft were the first women admitted to the Institution of Naval Architects. Information on these members would also be most welcome.

Nina Baker

nina.baker1@btinternet.com

THOUGHTS OF 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

A ship should not ride on a single anchor, nor life on a single hope.

Epictetus

The ship that will not obey the helm will have to obey the rocks.

English Proverb

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 2016 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 2016**.

The Award will be announced at the Institution's 2017 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

or by email to: maritivesafetyaward@rina.org.uk

Queries about the Award should be forwarded to the Chief Executive at: hq@rina.org.uk

Division and Branch News

New South Wales Section

Tim Asome, General Manager, and Marcus Ekholm, Ship Manager, of ASP Ship Management, gave a presentation on *CSIRO's New Research Vessel Investigator* to a joint meeting with the IMarEST attended by 27 on 1 June in the Harricks Auditorium at Engineers Australia, Chatswood.

Mick Dunne of Mercy Ships gave a presentation on *Conversion and Operations of Hospital Ship Africa Mercy* to a joint meeting with the IMarEST attended by 30 on 6 July in the Harricks Auditorium at Engineers Australia, Chatswood.

David Lyons, of UNSW Australia, gave a presentation on *Research and Development of Marine Design Rules for Curved Composites Subject to Out-of-Plane Loads* to a joint meeting with the IMarEST attended by 21 on 3 August in the Harricks Auditorium at Engineers Australia, Chatswood.

Phil Helmore

Engineering Council

The Institution's Licence to accredit courses on behalf of the UK Engineering Council and place members on the CEng, IEng and EngTech Registers has been renewed for a further period of 5 years.

EVENTS PROGRAMME 2016

12-15 September 2016

BASIC DRY DOCK TRAINING COURSE

RINA HQ, London, UK

20-21 September 2016

EDUCATION & PROFESSIONAL DEVELOPMENT OF ENGINEERS IN THE MARITIME INDUSTRY

Holiday Inn Orchard City Centre, Singapore

28-29 September 2016

HUMAN FACTORS

RINA HQ, London, UK

19 October 2016

COMMUNICATION SKILLS FOR ENGINEERS

RINA HQ, London, UK

26-27 October 2016

DESIGN & CONSTRUCTION OF LNG SHIPS

RINA HQ, London, UK

2-4 November 2016

CONTRACT MANAGEMENT FOR SHIP CONSTRUCTION, REPAIR & DESIGN COURSE

RINA HQ, London, UK

9 November 2016

PRESIDENT'S INVITATION LECTURE

One Whitehall Place, London, UK

23-24 November 2016

ENERGY EFFICIENT SHIPS

RINA HQ, London, UK

24-25 November 2016

COMPUTATIONAL & EXPERIMENTAL MARINE HYDRODYNAMICS

IIT Madras, Chennai, India

7-8 December 2016

HISTORIC SHIPS

RINA HQ, London, UK

EVENTS PROGRAMME 2017

24-25 January 2017

SMART SHIP TECHNOLOGY

RINA HQ, London, UK

22-23 February 2017

INFLUENCE OF EEDI ON SHIP DESIGN AND OPERATION

RINA HQ, London, UK

29-30 March 2017

WIND FARM SUPPORT VESSELS

RINA HQ, London, UK

27 April 2017

RINA ANNUAL DINNER

The Lancaster London, London, UK

10-11 May 2017

DESIGN AND CONSTRUCTION OF SUPER & MEGA YACHTS

The Gelata Museo del Mare, Genoa, Italy

June 2017

WARSHIP 2017: NAVAL SUBMARINES & UUV'S

The Guildhall, Bath, UK

26-28 September 2017

ICCAS 2017

Holiday Inn Orchard City Centre, Singapore

THOUGHT OF THE MONTH

The ship that will not obey the helm will have to obey the rocks.

English Proverb

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 2016 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

or by email to: maritimeinnovationaward@rina.org.uk

Nominations should arrive at RINA Headquarters by 31st December 2016.

Queries about the award should be forwarded to the Chief Executive at hq@rina.org.uk

Smallpeice Trust

The Smallpeice Trust organises engineering residential courses for 14-18 year olds, usually held at universities. The Institution supports the work of the Trust, and offers a year's free Junior Membership to those on the Maritime Technology and Naval Architecture courses. The courses are sponsored by the Lloyd's Register Foundation.

At the maritime Technology Course held recently at the University of Strathclyde, Andy King, member of Council and the Board, described his career as a naval architect at the course dinner, held in the Tall Ship (a 120 year old ship classified by Lloyd's Register).

Andy King speaks to students on the Smallpeice Trust course

