



RINA AFFAIRS

JULY/AUGUST 2017

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 with 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 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, most 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. Some will receive the RINA prizes and awards, including the RINA Student Awards. These Awards, which are also 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 £36 can be charged to members.

Chief Executive

IN THIS ISSUE

2017 Membership Survey

Members who have not yet had the opportunity to complete the 2017 Membership Survey are urged to do so. The results of the Survey will be crucial in helping to ensure that the Institution meets the needs of the members.

CPD Record

The Institution requires that all members in employment should maintain a Record of their Continuing Professional Development. Members may wish to use the the Institution's online CPD Record template.

Reporting of CPD

The Engineering Council requires that members registered as CEng, IEng or EngTech routinely report their CPD achievement over the previous 12 months to the Institution. Members will be advised when this mandatory Report is due.

IJME and IJSCT papers free to members

All papers published in the digital editions of the Transactions - IJME and IJSCT - 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.

Letters to the Editor

Letters include requests for information about Blanche Coules Thornycroft who was one of the first female members of the RINA in the early 20th century. Can you help? Also, a member asks for views on donating unwanted, unavailable text books to students.

The Coat of Arms

A picture may be worth a thousand words, but how many words does it take to describe the Institution's crest?

CPD Record

The Institution requires that all members in employment should maintain a Record of their Continuing Professional Development, which should include CPD Activities, a CPD Plan for future development and supporting documentation.

The Institution does not prescribe the format of the CPD Record which for some members it may be required to keep in accordance with a company's required format. The Institution's CPD Record in MSWord format is therefore not mandatory, but is recommended. It may be modified to

meet a member's individual needs.

The CPD Record template may be downloaded at www.rina.org.uk/res/CPDRecord.docx An example of typical entries are at www.rina.org.uk/p/1/CPDRecordExample.pdf

Reporting CPD Achievement

The Institution may request to see a member's CPD Plan and Record at any time. A member will also be required to provide evidence of CPD activity eg when applying for transfer to Fellow or subject to disciplinary action.

The Engineering Council requires that members registered as CEng, IEng or EngTech routinely report their CPD achievement over the previous 12 months to the Institution. Members will be advised when such a Report is due and they are required to complete and return the Report Form which will be forwarded. Alternatively, members may submit their Report online. www.rina.org.uk/CPDReport (Online) www.rina.org.uk/p/1/CPDAchievementReportForm.docx (MSWord file)

Membership Survey - 2017

Throughout its existence, the Institution has sought to be a forward looking professional institution, "seeking to identify and respond to the continuing and often fast changing professional needs of its members and the profession it serves". I believe that the Institution has been successful in this aim but is very much aware that such success must not lead to complacency. It has no right to expect or assume that those who are involved in the design, construction or maintenance of marine vessels and

structures will automatically become or remain members of the Institution. The Institution must continually ask if it is providing the service which its members want today and in the future.

It is the members who are best able to identify their changing needs and expectations. This survey will seek members' views on how they rate the Institution's current activities and benefits of membership. But, just as importantly, it will seek members' views on what it should be doing differently "to better

identify and respond to the continuing and often fast changing professional needs of its members and the profession it serves".

I would urge all members, regardless of how long they have been a member, to take the time to complete the Survey at www.surveymonkey.com/r/RINA2017MembershipSurvey. The results will be published in September and, more importantly, will help to shape the Institution of the future.

Chief Executive

Division, Branch & Section News

New South Wales Section

Lawry Doctors, Professor Emeritus at UNSW Sydney, gave a presentation on *Hydrodynamics of High-performance Marine Vessels* to a joint meeting with the IMarEST attended by eight on a dark and stormy night on 3 April in Room 101 of the Ainsworth Building at UNSW Sydney, Kensington.

Lachlan Colquhoun, Marine Engine Sales Manager and Eric Clarke, Service Division Manager, MAN Diesel & Turbo gave a presentation on *Approaches to Efficiency in Marine*

Diesel Engines to a joint meeting with the IMarEST attended by 20 on 5 July in the Harricks Auditorium at Engineers Australia, Chatswood.

Steve Quigley, Managing Director, One2three Naval Architects, gave a presentation on *Technical Developments and Innovations on Wild Oats XI* to a joint meeting with the IMarEST attended by 50 on 2 August in the Harricks Auditorium at Engineers Australia, Chatswood.

Phil Helmore

Edward Cecil Allcard

It is with regret that I learned of the death of Edward Cecil Allcard at the age of 102. Our records show was the longest serving member of the

Institution, having been a member for 75 years, and I think may well have been the longest ever serving member in the history of the Institution.

Details of his life are recorded at <http://wavetrain.net/news-a-views/794-edward-allcard-1914-2017-a-life-well-lived>

Chief Executive

Technical Committees

The Institution considers that it has a duty to make its collective expertise available for the wider benefit of society and the profession. It carries out this duty principally through its Technical Committees.

The Maritime Safety Committee

- all matters relating to the improvement of maritime safety.

Maritime Environment Committee

- all matters relating to the protection of the maritime environment, and marine renewable energy.

The IMO Committee

- representing the Institution in its capacity as an NGO at the International Maritime Organisation.

Maritime Innovations Committee

- identifying and assessing the impact of evolving technologies on the membership and profession, and determining how the Institution should address them.

Maritime Groups

Each of the Technical Committees has an associated Maritime Group, and each Maritime Group as an online Forum through which members will be kept up to date with the work of the Committees, and have the opportunity to both comment on that work and to propose items for consideration. Members may opt to receive notification of new items.

Technical Register

The online Technical Register of members' lists the experience and expertise of those members who are willing for their expertise to be called upon by the Technical Committees for specific issues. The Register is confidential.

Working Groups

Whilst the Technical Committees will have a core expertise across all vessel types and sectors, they will mainly carry out their work through ad hoc Working Groups, formed to address a specific issue which may have been raised by a member of the Committee or a member of the Institution through, for example, a Maritime Group.

Use of Members' Personal Data

When elected, members implicitly give their consent to the Institution holding and using personal data (ie information which will allow the member to be identified, either directly or indirectly). Only personal data which is provided by the member will be held by the Institution. Members may change or delete the personal data held by the Institution online at www.rina.org.uk/MyRINA.

Personal data held by the Institution will only be used in connection with Institution activities, and will only be passed to a third party for use in connection with such activities (eg posting of journals, delivery of eNewsletters etc). Furthermore, such information will only be passed to third parties who are able to demonstrate that they are able to protect such data from loss or theft.

Any requests from a third party for a member's contact details will be forwarded to the member.

Personal data held by the Institution will be used to notify members of developments in the maritime industry, Institution events and matters related to membership through the Institution's eNewsletters. On election, members give their consent to receiving such notifications, but may withdraw their consent at any time (ie Unsubscribe).

Designatory Letters

Members may 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

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

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
- www.rina.org.uk/ijst_digital.html
- www.rina.org.uk/ijmd_digital.html

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

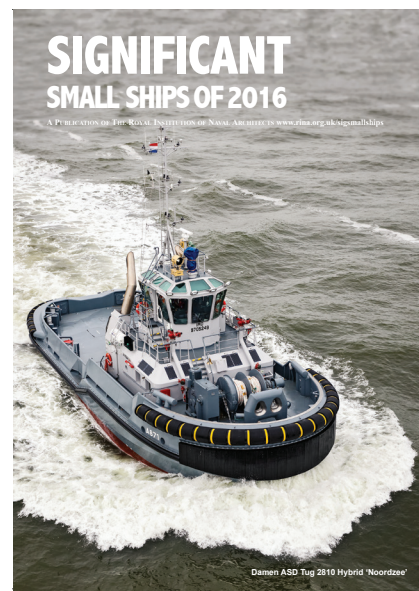
Significant Ships and Significant Small Ships

The annual RINA publications Significant Ships of 2016 and



Significant Ships of 2016

Significant Small Ships 2016 are now available to order from the Publications Department at publications@rina.org.uk in either printed or CD-ROM format. Details are at www.rina.org.uk/sigships.html and www.rina.org.uk/sigsmallships.html 30 – 50



Significant Small Ships of 2016

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

The Coat of Arms

A picture may be worth a thousand words, but how many words does it take to describe the Institution's crest?

The Institution was granted its Coat of Arms on 10 February 1955. Members will be familiar with the Coat of Arms which is commonly referred to as the crest, and appears on many RINA publications, website and correspondence. Some members may even know the translation of the motto which appears on the Coat of Arms. However, few will be aware of the

following heraldic description, or Blazon, of the coat of arms:

ARMS

Per fesse wavy Azure and Barry wavy of six Argent and of the first issuant from the fesse line a Sun in splendour Or over all a three masted Ship of the Seventeenth Century in full sail proper pennon and flags flying also of the first

CREST

On a Wreath of the Colours A Lymphad proper the sail Barry wavy of eight

Argent and Azure charged with a Sun in splendour Or pennon and flags flying also Azure

SUPPORTERS

On either side a Dolphin Or gorged with a Naval Crown with rope pendent therefrom and reflexed over the back Azure

MOTTO

SALUM ET CARINAE PIGNORA VITAE
"To the open sea and keel of a ship we pledge our lives"

BADGE

A Nautilus Or

THOUGHT FOR THE MONTH

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

Epictetus

Student Awards

2017 QinetiQ Schools Powerboat Challenge

The Team Prize for teamwork and co-operation, was won by Budmouth College. The Prize is awarded by the Institution and was presented by the Chief Executive, Trevor Blakeley.



Budmouth College, winners of the Team Prize

The Awards were presented by the Chief Executive, Trevor Blakeley, when he visited Malta University.

Southampton University

The 2017 RINA – BAE Systems Student Naval Architect Award was presented to Juliette Bataille for her project *Sphere Impact in Newtonian versus Non-Newtonian Fluid* which was adjudged to have been the best design project on the Ship Science MEng course at Southampton University.

Newcastle University (Singapore)

The 2017 RINA – BAE Systems Student Awards for the best final year projects at Newcastle University (Singapore) were presented to the following students:

BEng with Honours in Marine Engineering

Chan Fann Howe

Design Analysis of a Spray-type Condenser in a Refrigeration Plant

BEng with Honours in Offshore Engineering

Valerie Boo Shi Hui

Investigation on Hydrodynamic Performance of Heave Plates under Semi-submersible Floating Wind Turbines

BEng with Honours in Naval Architecture

Eric Tan Wei Hao

Benchmark Study on Computational Fluid Dynamics Methods for Resistance Prediction and its Application

Plymouth University

The 2017 RINA – BAE Systems Student Naval Architect Awards for the best final-year marine projects were presented to the following students at Plymouth University

BEng

William Waddington

BSc

Carlos Gutierrez-Castro

RINA Student Naval Architect Awards

University of Malta

The 2017 RINA Student Naval Architect Award was presented to Daniel Farrugia, whose project *Analysis of the Wind and Wave-Induced Dynamic Response of An Offshore Energy Storage System* was adjudged to have been the best marine related final year project on the B.Eng.(Hons) Course at the University of Malta.

The following students were considered to have produced outstanding final year projects:

Bernard Bonello

Ship Hull Structures

Annelise Zammit

Design by Rule (DBR) Small Craft Construction

Matthew Schembri

Optimization of Hull-Propeller-Rudder interaction in the Ship Science ME

Kristian Zammit

Preliminary Design Concept of a Trimaran

Jacqueline Mifsud

Cavitation in Maritime Control Surfaces

THOUGHT FOR 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

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



Letters to the Editor

Blanche Coules Thornycroft

Sir: I am trying to track down information about Blanche Coules Thornycroft who was one of the first female members of the RINA in the early twentieth century. She assisted her father, Sir John Thornycroft, in the development of a coastal motor boat which was used in the First World War. I would like to include Blanche in a display about women's contribution to the war being held at Carisbrooke Castle Museum on the Isle of Wight (where testing of the vessel was conducted) but am having great difficulty finding images or documents relating to her work. I wonder whether the institution holds historic archives or might know where such archives might be held?

Dr Rachel Tait, Curator
Carisbrooke Castle Museum
<mailto:curator@carisbrookecastlemuseum.org.uk>

By Chief Executive
Unfortunately, the Institution does not hold any information about Blanche Coules Thornycroft.

Technical Publications

Sir: It has been brought to my attention that there is a big interest among the younger naval architects to own some older technical publications such as "Principals of Naval Architecture". These are not published anymore and they are highly desirable. I am told on Amazon you may pay around £500 for only one of them as second hand.

I was wondering whether we could establish some sort of platform where these books could be sold if they are no longer needed by the previous owners. In some cases, the owners may have passed on and the family may not appreciate how valuable these books are to the younger generation.

I was wondering whether you share my view and perhaps you can accommodate such a platform. I am not sure how we can establish this but may be just to remind the older generation that they can either donate or sold these publications etc.

Yıldız Williams

By Chief Executive
I am happy to pass on details of any such publications which members might (preferably) wish to donate or to sell to Student Members