



RINA AFFAIRS

MAY/JUNE 2020

The Newsletter of the Royal Institution of Naval Architects

CHIEF EXECUTIVE'S COLUMN



The Institution, its members and members of the international maritime community continue to respond to the challenges which the novel coronavirus, Covid-19, still presents.

The Institution, its members and members of the international maritime community continue to face personal and professional challenges as they respond to the current pandemic. The Institution's Headquarters remain closed until the easing of travel and social distancing allow conferences, courses and meetings to again be held. The Institution's staff continue to work from home, and it is to their credit that, with the exception of such events, business continues as normal – or as close to normal as can be achieved. Membership applications continue to be processed, deadlines for the Institution's publications continue to be achieved, and meetings continue to be held, thanks to the likes of Zoom, Skype and Microsoft Teams, now household names!

An early challenge faced by the Institution was how to hold the 2020 Annual General Meeting and Special General Meeting. In the event, more than 200 members attended the AGM and SGM by video conference. The award of Medals and Prizes for papers published in the Transactions, the AGM and SGM Resolutions, the Treasurer's Report to the Members, and the President's Report are included in this issue of RINA Affairs.

As referred to earlier, a casualty of Covid-19 has been the Institution's conferences, which have had to be postponed until Headquarters reopens. However, this has served as a catalyst to bring forward the introduction of online conferences, to complement the traditional live conferences held in the Denny Room at Headquarters.

The first online conference on EEDI was attended by more than 250 delegates and whilst not replacing the networking opportunity of conferences at Headquarters, nonetheless was successful. The presentations and Q&A sessions will be published on the Institution's YouTube Channel in due course. Papers will also be available on Dropbox. Autonomous Ships will be the next online conference, 17-18 June, and like the EEDI Conference, registration is free – at the time of writing, more than 600 reservations had been received for the conference. I strongly recommend subscribing to the Institution's YouTube Channel at www.youtube.com/RoyalInstitutionofNavalArchitects which contains presentations from previous conferences, Branch meetings etc.

The Institution will continue to respond to these and other challenges, as I am sure will members of the Institution.

Trevor Blakeley

IN THIS ISSUE

Chief Executive's Column

The Chief Executive gives an update on the impact of the Coronavirus on the Institution's activities.

2020 AGM

The 2020 Annual General Meeting was held remotely on 14 May. The results of voting on the Resolutions presented at the AGM are reported.

2020 Elections to Council

The results of the 2020 elections to Council are reported.

2020 SGM

The 2020 Special General Meeting was held remotely on 14 May. The results of voting on the Resolutions presented at the AGM are reported.

Technical Committee News

Reports from the IMO Committee, Maritime Innovation Committee and Professional Affairs Committee.

Division and Branch News

Reports from the NSW Section of Australian Division.

Members and student awards

The achievements of students in Canada are recognised by Institution awards.

The Conservation of Steam Boats

The eBook *The Conservation of Steam Boats* by P G Wrobel FREng FRINA is available to members.

Digital Media

Video recordings of presentations at Conferences are now published regularly on the Institution's YouTube Channel.

2020 ANNUAL GENERAL MEETING

Elections To Council

The following elections to Council were announced at the 2020 AGM:

UK Region:

A Aitkin
R Cripps
P Crosland
R Downs
K W Hutchinson
D Vassalos
P Wilson
L Santini
N MacLennan

Europe Region

R P Fernández
C Silitziotis

Americas Region

D Molyneux

Africa + ME Region

H Theunissen

Asia Region

G S Chopra
S Inayatullah
D Konoovessis

Following the elections the composition of Council will be as follows:

UK Region:	17
Europe Region:	4
Americas Region:	1
ME+Africa Region:	2
Asia Region:	7
Pacific Region:	1
Total:	32

In addition, there will be 10 ex-officio members (2 x Divisional Presidents, 2 x Chairmen of Committees).

Resolutions

The following resolutions were adopted at the Annual General Meeting:

Resolution 1: To elect M d'Amico as the President of the Royal Institution of Naval Architects.

Resolution 2: To re-appoint Haysmacintyre as Auditors until conclusion of the next Annual General Meeting.

THOUGHTS FOR THE MONTH

"To the optimist, the glass is half full, to the pessimist, the glass is half empty. To the engineer, the glass is twice as big as it needs to be."

Anon

APPOINTMENT OF CHIEF EXECUTIVE

Circa £100K dependent on experience

The Royal Institution of Naval Architects invites applications for the position of Chief Executive. The Chief Executive reports directly to the Board of Trustees through the Chairman of the Board.

As Chief Executive you will be responsible for all aspects of the Institution's diverse range of activities in support of its international membership. You will be responsible for ensuring that the Institution operates at all times in compliance with its Royal Charter and its charitable status. You will ensure that the Institution operates in line with the financial targets set by the Board of Trustees. You will analyse and understand the current and potential membership requirements for Institution membership services.

The successful candidate will:

- Be able to assist the Board in developing the strategic vision, and to provide strong leadership in implementing it.
- Have excellent interpersonal skills to operate with partners/stakeholders at all levels engaging with the President, the Board & Council, the Divisions & Branches, the Membership as well as the Secretariat.
- Have the ability to promote the Institution and command respect at CEO level in other organisations.
- Have experience of working internationally and be able to travel extensively and frequently.
- Have experience of budget and financial control as well as quality assurance, risk management, and internal and external audit.
- Be a Chartered Engineer, with a background that includes the Maritime sector.

Applications by CV and covering letter should be forwarded to the Chairman of the Board by email to hq@rina.org.uk or by post to RINA Headquarters, to arrive by 26 June 2020.

Medal, Prizes & Awards

The following Medals, Prizes and Awards were announced at the 2020 Annual General Meeting:

Medal of Distinction

The Institution's Medal of Distinction for papers published in the 2019 Transactions is awarded to the following:

P S Szulczewski for his paper *Dangers Arising From Application of the Probabilistic Method (as included in SOLAS 2009 Ch.II-1) to Measuring Level of Safety of Cargo Ships*.

M S Yi, Professor J K Paik and C M Hyun for their paper *Full-scale measurements of welding-induced initial deflections and residual stresses in steel-stiffened plate structures*.

S Ferauge, W Jacobs and K De Baere for their paper "Liquefaction" and "Dynamic Separation"- different aspects of the same problem.

Council's Commendation

The Council has commended the paper *The Sophistication Of Early Stage Design For Complex Vessels* by Professor D Andrews.

It was considered that this paper, which was a synthesis of his previously published research on ship design, was a seminal paper which sets the benchmark for ship designers looking to exploit new technology and techniques. As such, the paper was considered to be essential reading for all naval architects and marine engineers, and not just those working in concept design.

Click here to download and read the paper (pdf file).

Jeom Kee Paik Prize

The Jeom Kee Paik Prize for the best paper on the subject of structures published by an author under the age of 35 in the 2019 Transactions is awarded to T Li for his paper *Mathematical Model And Analytical Solution For The Vibration Of Inclined Fluid-Transporting Submarine Pipelines*.

W H C Nicholas Prize

The W H C Nicholas Prize for the best paper on a design related topic published by an author under the age of 35 in the 2019 Transactions is awarded to I Almallah for his paper *High-speed wave-piercing catamaran global loads determined by FEA and sea trials*.

Wakeham Prize

The Wakeham Prize for the best general paper published in the 2019 Transactions by an author under the age of 35 was awarded to C Delen for his paper *Telfer's Geosim Method Revisited By CFD*.

Samuel Baxter Prize

The Samuel Baxter Prize for the best paper on the subject of safety published by an author under the age of 35 in the 2019 Transactions is awarded to R Fiskin for his paper *Deterministic-Based Ship Anti-Collision Route Optimization With Web-Based Application*.

Austin Farrar Prize

The Austin Farrar Prize for the best paper published in the 2019 Transactions by an author under the age of 35 on the subject of small craft is awarded to A Dashtimanesh, M Habibiasl and A Ghassemzadeh for their paper *Development of a Mathematical Model for Performance Prediction of Planing Catamaran in Calm Water*.

Calder Prize

The Calder Prize for the best paper published in the 2019 Transactions by an author under the age of 35 on the subject of small or high-speed craft is awarded to S Hajizadeh, M Fathi Kazerooni and A Mohammadi for their paper *Ranse Simulation Of Stepped Planing Hull Hydrodynamic Performance In Calm Water And Waves*.

David Goodrich Award

The David Goodrich Prize for the best paper presented at the 2019 Warships Conference was awarded to H Cole and J Alvarez for their paper *Standardisation of Naval Containerised Modules – Enabling interoperability across NATO*.

William Froude Medal

The William Froude Medal is awarded to an individual of any nationality who, in the opinion of the Council has made a conspicuous contribution to naval architecture and/or shipbuilding and whose achievements merit special consideration. The William Froude Medal is the Institution's highest award for professional achievement.

Council has approved the award of the William Froude Medal to Professor David Andrews, in recognition of his steadfast and professional contribution to the field of ship design, and particularly your work in challenging established practices which has benefitted ship performance, safety and operational capability. Your work over the last 40 years has consistently enhanced the understanding of early stage ship design and developed tools and techniques for the designer to use. Through your research into design methodologies, published in over 90 papers, and also your work in the education of generations of naval architects and marine engineers in ship design, you have made a conspicuous contribution to naval architecture.

Maritime Safety Award

The 2019 Maritime Safety Award is awarded to Life Cell Marine Safety Pty Ltd.

Life Cell is an innovative float-free buoyant device that stores all essential marine safety equipment. Life Cell is designed to keep people together in the water and provide a stable platform from which to facilitate the individual's own rescue.

Maritime Innovation Award

The 2019 Maritime Innovation Award is awarded to Conoship International BV for their development of the compact eConowind-unit. The eConowind-unit is a smart economical unit for wind-assisted ship propulsion, based on a 40ft container with two foldable 'VentiFoil's. In upright position, the wing-shaped VentiFoil's™ convert wind to thrust for the vessel just like a sail, with about. five times more thrust per m² due to innovative boundary layer-suction technology.

Eli Keary Award

The 2019 and inaugural Eli Keary Award is awarded to Natalie Desty, Founder and Director of the company STEM Returners.

STEM Returners facilitates the return of people who had taken career breaks back into STEM careers. Open to all, it is particularly relevant to women and thus helps to redress the gender imbalance within STEM.

Treasurer's Report

The summarised Statement of Financial Affairs for the year ending 30 September 2019 is included with the 2019 Annual Report of the Board which has been published on the Institution's web site. The full version of the Statement of Financial Affairs is available from the Chief Executive.

As verified by the auditors, Haysmacintyre LLP, the total value of the Institution's funds at 30 September 2019 was £10.14m compared with £10.15m at 30 September 2018.

The value of the Unrestricted Fund (which represents the Institution's investments, cash, fixed assets) was £8.24m at 30 September 2019 compared with £8.25m at 30 September 2018.

The value of the Restricted and Endowment funds held by the Institution to finance scholarship, prize and benevolent activities, was £1.91m at 30 September 2019 compared with £1.90m at 30 September 2018.

The total value of the Institution's investments was £4.46m at 30 September 2019 compared with £4.45m at 30 September 2018. Whilst this shows a modest increase, the value reflects the state of the financial market on that day. However, you will not be surprised to hear that the value of investments as at 22 April 2020 was £3.47m.

The continuing reduced level of activity in many sectors of the maritime industry and the global financial uncertainty continued to present a challenge to the Institution in maintaining its income from all its activities, particularly from its conferences and publications advertising. At such a time, maintaining membership income – through retention and increased membership, rather than membership fee increase – continues to be essential.

On a brighter note, during the 2019-2020 Financial Year, the performance of the Institution's investments and cash, together with the appreciation of the bricks and mortar asset represented

by the Headquarters building, continued to provide a the Institution with a sound financial basis for its future. The Board of Trustees continues to review its investment strategy.

The auditors have expressed their satisfaction in the manner in which the Institution's Accounts were presented. The Board has therefore approved the Annual Accounts as presented in the Statement of Financial Affairs. A copy of the accounts has also been submitted to the Charities Commission.

However, I would be remiss in my report to you if I did not comment on the financial impact of the Coronavirus on the Institution. The most obvious impact, as ably demonstrated by this meeting, has been the closure of Headquarters, resulting in all conferences and courses being postponed, probably to the next Financial Year, with the total loss of income. Although the extent has yet to be determined, inevitably there will be a reduction in advertising revenue. Reduced investment income and loss of income from use of Headquarters will also contribute to what will be a deficit over this FY and will have an impact on the next FY.

However, at the beginning of 2020, the Institution wisely retained a high level of cash, and is in a good position to weather the financial storm for the remainder of 2020. At this time, the Board does not expect to have to realise any of its investments in order to meet its cashflow requirement, which of course, given the depressed state of the global market, is not a good time to do so. This position is no cause for complacency, particularly given the uncertainty of the continuing impact of the Coronavirus. The Board will continue to closely monitor and manage the Institution's finances at the challenging and testing time.

That concludes my Report, and I am happy to take any questions, referring the difficult ones to the Chief Executive!

Jeff Frier

President's Report

This, the 2020 Annual General Meeting of RINA, takes place in circumstances that none of us could have expected, or even imagined just a few weeks ago. The onset of the global pandemic has affected us all, both personally and professionally, impacting on our home lives, our working lives, and on the organisations that we are involved with, including RINA.

The London Head Quarters of our organisation is closed, with all staff working from home, and all events for this year having been postponed, with the possibility of on-line delivery

being explored or alternative tentative dates being considered for next year. However, other activities carry on as close to normal as possible despite being undertaken in virtual formats: the Membership Committee meets regularly and professional reviews are undertaken; all technical committees continue with their work (although in some cases slightly delayed due to the intensity of Covid-19-related work-load for many members); and all publication deadlines are being met.

So that is the status at this time, but although this pandemic is monopolising

the media, and almost monopolising our thoughts and energies, I do not want this year's President's address to be entirely about Covid-19 and its impact. It is possible to review this last year positively, so, from the many things that were achieved by RINA (that is before the entire world changed near the beginning of 2020) I will highlight just a few.

Firstly, we now have members in over 90 countries, and continue to emphasise the recruitment of younger members. Here I must thank Trevor Blakeley for his efforts to encourage graduates from relevant educational courses at universities around

the world to sign up to RINA.

Secondly, the local branches and regions continued to hold meetings, lecture series and social gatherings regularly. These many events held around the world are to many members what RINA is, not the activities at Head Quarters, but these branch and section meetings that provide an opportunity to meet friends and colleagues. So a thank you too to those members who give so much of their time to ensuring that these many popular events are successful.

I also must mention the activities of our Technical Committees which are focussed on Innovation, Environment, Safety, and the IMO. It is these committees that keep the work of RINA relevant to our sector, and it is these, together with our Membership and Professional Affairs Committees, that are at the core of what RINA does. I wish to thank all those who volunteer their time and contribute their expertise as members of these committees, and in particular the individuals who shoulder the greatest load by agreeing to chair them.

Lastly in this list of the achievements of the last year I must include our conferences and publications. RINA's declared aim is 'promoting and facilitating the exchange of technical and scientific information to improve ship design,' and this aim is met largely through our conferences, of which 15 have been held in six countries in the last year, and through our journals, which are distributed in over 100 countries.

For the last two years I have been President of this institution, and in a few weeks my term finishes when I hand over to Maurizio d'Amico, who has been elected to be the next President earlier in this meeting. As President I have been contacted by many people who engage with RINA in a variety of ways, including Members, Fellows, Chairs of committees or branches, leaders of industry and senior academics, all of whom have opinions on RINA, its activities, its operations, and its services. It would be remiss of me if I did not acknowledge that not all of these communications are favourable. I know that people complain more readily than they praise, so no doubt for every person

who makes an adverse comment there are many remaining silent who are satisfied. However we, as engineers, know that quality improvement is not about looking at what is going well, it is achieved by focussing on what is going wrong.

And RINA is far from perfect. Our journals are not the favoured route for the dissemination of research results, at least not for academics. Our conferences, which in many cases reflect niche concerns and are rightly praised for that, are not held up as well curated events hosting the foremost authors in our field. Our voice in the maritime world as thought leaders and policy advisers is not as strong as we would like it to be, and our impact in this respect is not as significant as it should be. And perhaps most concerningly, prospective members do not automatically turn to RINA as their professional body of choice.

But remember, quality improvement is about looking at the faults, so please don't interpret my words as an attempt to demolish RINA. Far from it as I, together with the Board of Trustees, have been looking to how we can make a difference, how we can make RINA into the organisation that all levels of the maritime community turn to, whether they are individuals, companies, governments, or intergovernmental organisations. To this end, during the last two years, the Board has conducted a strategic review, looking at what we need to do to make a step change in terms of our digital footprint, our publications and events, our international profile, and our performance with regard to equality, diversity and inclusion. There has been much hard work put into undertaking this review, and I want to thank my fellow trustees for their determined efforts on this project – a project which is now coming to its conclusion, at least as a review. A Report is planned which I anticipate will set out a vision for the future of RINA, and a detailed implementation plan. I say 'I anticipate' because this will not be my task. I step down from the role of President and Chair of the Board of Trustees in six or seven weeks time, so sit will be for the new President with his new Board to take these initiatives forward.

One phrase that emerged from the review that resonated with me was the 'need for cultural change.' At this moment in time, which will surely be seen as historic when looked back upon from the future, we are all having to embrace radical change, both now and in the months and years ahead. The change that will be forced upon us by the ramifications of the Covid-19 pandemic will force us all to transform how we do business in all its aspects: how we hold meetings, how we run conferences, and how we use the internet. This then is an opportune moment to rethink, to re-imagine, how RINA should operate. We must grasp this opportunity to make the cultural change that the Board believes RINA needs.

In a few weeks I hand over the stewardship of RINA to Maurizio d'Amico. I must tell him that while two years appear to be a long time when they are stretching out ahead, they do not seem to have lasted long at all once they have passed. Use your time wisely Maurizio!

I wish Maurizio good luck when he takes on the role of President of RINA at the beginning of July, and I look forward to the RINA that will develop during his tenure. I look forward to the RINA that will emerge from this global pandemic, from the strategic review, and from the efforts of our Board, our Council, our Committees, and all our Branches and Sections around the world.

Richard Birmingham

THOUGHTS FOR 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

2020 SPECIAL GENERAL MEETING

Resolutions

The following Resolutions were adopted at the 2020 Special General Meeting:

Resolution 1: To make such amendments to the By Laws as are necessary to clarify the relationship between the Board and the Council.

Resolution 2: To make such changes to the By Laws as are necessary to replace all gender specific references with gender neutral references.

INSTITUTION NEWS

2020 Annual Dinner

Due to the continuing uncertainty over restrictions on travel and permitted size of groups, the decision has been taken to cancel the 2020 Annual Dinner, which had been tentatively postponed to October. The 2021 Annual Dinner will be held at its usual time of April.

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.



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.

NEWS FROM THE COMMITTEES

Maritime Innovation Committee

The Maritime Innovation Committee is tasked by the RINA Council to make the collective technical expertise of the Institution available for the benefit of the profession and society by contributing to the development and use of innovative technology in the maritime industry. The Committee has identified a number of key disruptive technologies that it believes will have a significant impact on the maritime industry now and in the future.

The committee is now looking into the following aspects in more detail with a view to holding an online workshop later in the year on these topics.

- 3D printing to support construction, repair, and in-service.
- Modelling and simulation to improve efficiency and effectiveness of marine vehicles (including use of AI for optimisation).
- Concept Design Process.
- Digital shipyard.
- Advanced (digital) manufacturing - Industrial Revolution 4.0.
- Digital Twin – use of data acquisition and analysis from

the ship /platform to maximise efficiency of operations and effectiveness of future designs.

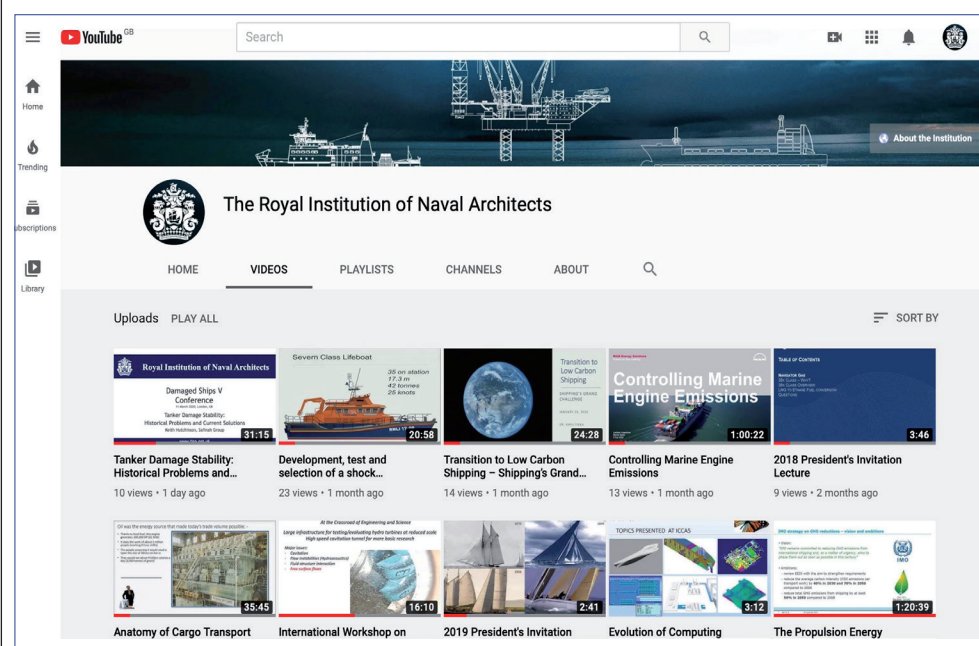
- Virtual and Augmented Reality (VR & AR) in design, training, and operational contexts.
- Power system technologies to reduce use of fossil fuels and reduce emissions.
- Greater automation, progressing to fully autonomous / unmanned systems to remove people from harm's way.
- Novel inspection techniques.

RINA CREST

Members whose Latin is rusty (or non-existent) may be interested to learn that the inscription on the RINA crest "Salum Et Carinae Pignora Vitae" translates as "To the open sea and keel of a ship we pledge our lives"

The Royal Institution of Naval Architects

YouTube Channel



Featuring:

- Conferences
- Presentations
- Lectures
- Interviews

View at:

bit.ly/2WYnuec

www.rina.org.uk

IMO Committee

IMO meetings are currently postponed while the organisation works out how to manage meetings for several hundred people with simultaneous translation. Autumn is being mooted for restart of prioritised

meetings, namely MEPC and MSC.

The IMO Committee discussed a paper to MSC on safety of ships carrying high density cargoes, as well as how to progress the issue of lifeboat safety.

The Committee is continuing to participate in several informal discussions on GHG matters organised by ICS and other flag states that aim to improve understanding of the different proposals on short-term measures.

Professional Affairs Committee

Accreditations

The Committee agreed to grant one-year extensions of accreditation to both the University of Newcastle upon Tyne and the University of Malta. The extensions were requested by the universities for their own different reasons and due to the strength of their courses the PAC was able to grant extensions until 2021. An accreditation visit was planned in October this year to the Singapore Institute of Technology. This visit has been postponed until travel restrictions have been lifted.

The Engineering Council and the Institution have issued guidance to institutions on how to proceed with accredited courses in the light of the current

coronavirus restrictions. Submissions from institutions are being reviewed on a case by case basis by the PAC. To date, a submission from the University of Newcastle has been agreed and a submission from the University of Plymouth is under review.

Continuing Professional Development (CPD)

The PAC is continuing its established process of requesting CPD reports from members via the Secretariat. The aim is to request reports from approximately 50 members this year.

The main problem in this area has been, and continues to be, the poor return rate to requests for CPD reports. The

best response rate achieved to date for individual batches is 50% and indications in recent times are that response rates are declining rather than improving. The poor response levels to requests for CPD reports is an aspect which needs particular focus from the Institution in order to achieve sustained improvement.

ED&I

The format and content of an ED&I survey, as proposed by the Working Group, has been accepted by the PAC. It has been decided to delay the issuing of the survey until things return nearer to normal after the lockdown in order to enhance the chances of a good level of responses to the survey.

DIVISION, SECTION & BRANCH NEWS

New South Wales Section

The NSW Section held its 22nd AGM on the evening of 4 March, following the March technical presentation and the Australian Division AGM in the Boardroom at Engineers Australia, Chatswood, attended by 14 with Deputy Chair, Phil Helmore, in the chair.

Bruce Cartwright, Research Associate, University of Newcastle, and Senior Simulation Engineer, Pacific ESI, gave a presentation on Structural Integrity of Ships to a joint meeting with the IMarEST attended by 28 on 4 May in the Boardroom at Engineers Australia, Chatswood.

The technical presentation scheduled

for April was cancelled due to social distancing restrictions associated with Covid-19.

The technical presentation scheduled for May was postponed from 6 to 20 May and, as we go to press, was expected to go ahead as a webinar presentation hosted by Engineers Australia using the WebEx platform.

Levi Catton, Managing Director/SEA5000 Technical Advisor Ship Integration, Gibbs & Cox Australia, will give a presentation on Design and Construction of the RAN's New Hunter-class Frigates.

Phil Helmore

CLIA STUDENT DESIGN COMPETITION

The 2020 Cruise Lines International Association Student Design Competition challenges students to answer the question: "What does the next generation of life saving appliances on passenger ships look like?" without being constrained by the existing regulatory framework. This competition is open to all current ungraduated and graduate students, competing in teams of up to four. The first-place prize is US\$10,000. Entry applications for competing teams are due on 10 September 2020, but can be submitted at any time. For more information, please visit www.cruising.org/sdc, or contact the competition organisers by email at designcompetition@cruising.org.

NEWS FROM THE UNIVERSITIES

Memorial University of Newfoundland

The graduating class of Ocean and Naval Architectural Engineering (ONAE) students at Memorial University of Newfoundland (MUN) delivered their final capstone design projects in early April 2020. Projects this year included two ice-capable expedition cruise ships, a NavAids tender, an Arctic submarine defense ship, an ocean cleanup ship, and an Arctic patrol vessel.

The ONAE Program at MUN is very fortunate to receive support from RINA and BMT Canada Limited who offer the RINA-BMT

Marine Student Naval Architect Award annually. The award is made to the ONAE students with the best capstone design project. Judging this year was performed by Andrew Payne and Jason Mills of BMT, and Doug Smith of Memorial University.

All of the projects were very well done and well received by the judges. The Arctic patrol vessel was judged to be the best of the class, all of whom faced the adversity of the current pandemic with remarkable aplomb. Congratulations to the designers: Ian Connors, Kyra Pike, Brad Greenslade, and Cameron Dunn.

The Conservation of Steam Boats

By P G Wrobel FREng FRINA

"Nowhere in the world is there anything to equal the stunning collection of Lakeland Vessels which the Pattinson family brought together on the shores of Windermere"

Director National Historic Ships

The collection housed at the Windermere Jetty Museum is the largest and highest quality collection of steam vessels preserved together anywhere and is combined with

important motor boats, rowing boats, sailing boats and other vessels which are all associated with Windermere and include boats of national and international significance. Eleven vessels in the collection are listed on the National Historic Ships UK National Register of Historic Vessels with four vessels holding National Historic Fleet status due to their national significance. The smaller craft in the collection are all on the National

Small Boat Register and include vessels of national and international significance.

Naval Architect and Trustee of the Museum, Paul Wrobel recounts the history of the Museum, its association with Windermere, and its role and work today in the conservation of historic steam and other boats. In six case studies, he describes how that conservation is achieved in practice.

Acknowledgement

The Royal Institution of Naval Architects and Paul Wrobel would like to pay tribute to the conservation work of the Windermere Jetty Museum, which has provided much of the material in this booklet, and to that of the many volunteers in providing this invaluable practical and living record of the craft and skills of naval architects and boat builders of the past.

For those who have an interest in historic boats, a visit to the Museum to view the boats which are featured in this booklet and to hear first hand about its conservation work is highly recommended. More information about the Museum is available at <https://windermerejetty.org/>

The Conservation of Steam Boats is available as a free eBook or pdf file, and can be downloaded from the RINA Dropbox: https://www.dropbox.com/sh/2e5kzzqrvfx5o1r/AAA8NfWE2GYYoR0qhf6F_ubDa?dl=0

Lake Windermere



Steam Boat Museum



Branksome



Osprey



Digital RINA

It is the policy of the Institution to make full and effective use of 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, and Social Media.

Transactions

Members have online access to all papers published in the Transactions – 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.

Technical eNewsletters

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 to view.



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.



RINA eNews

RINA eNews 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.



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, online, or on the RINA Affairs App, which may be downloaded from the Apple Store and Google Play Store.

YouTube

Videos of presentations at conferences, Section and Branch meetings may be viewed on the RINA YouTube Channel: www.youtube.com/channel/UChb1sfHbWfQmG-iwpp_QGJg

Conference Proceedings

Delegates to RINA conferences may 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.

THOUGHTS FOR THE MONTH

"When you want to know how things really work, study them when they're coming apart."

William Gibson

RINA AFFAIRS

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