



RINA AFFAIRS

NOVEMBER/DECEMBER 2011

The Newsletter of the Royal Institution of the Naval Architects

CHIEF EXECUTIVE'S COLUMN



By now, most members should have received their 2012 Annual Subscription Renewal Notices. For members with access to a UK bank, the preferred method of payment is the Direct Debit. No further action is required by those members with Direct Debits set up. [I would strongly urge other members to consider this method of payment for future years. It ensures that payment of membership fees is not overlooked, and avoids the need for me to write to members in June 2011, informing them that they are about to be removed from the Membership Roll for non-payment of fees, their journals having been stopped earlier. Direct Debit Mandate Forms

are available from Headquarters] Members are reminded that resignations cannot be accepted from members with fees outstanding. Their membership record will show them as lapsed for non-payment of fees.

For other members, it is recommended that the facility to pay by credit card be used. Payment for all RINA conferences, publications and merchandise, as well as membership and registration fees, can be made by all major credit cards, members may also make their payment by credit card online if there is no change to the amount shown on the Renewal Notice, using the secure link from www.rina.org.uk/Membership. Payment can also be made by bank transfer or personal cheque drawn on a GBP, Euro, A\$, NZ\$, Can\$ or US\$ account, but members should remember that the bank will make a charge for transfer and ensure that the full amount due is transferred.

I would be grateful if members would check the personal details on the Renewal Notice and inform Headquarters if there are any errors or changes. At any one time, up to 200 members' current addresses are not known, resulting in correspondence and journals being returned, and back numbers being forwarded when new addresses are notified. The additional administrative, postage and printing costs are not insignificant. A charge is also made for returning journals from outside the UK. Change of address can be notified by letter, fax, email or through the RINA Website at www.rina.org.uk/Membership. May I also ask that members inform Headquarters of their email addresses, either by email to hq@rina.org.uk or with their Annual Subscription payment details. Email is now used as the preferred method of communication with members, including the RINA News e-newsletters.

Members are also asked to review their standing order for journals and the Transactions (the *International Journal of Maritime Engineering* and the *International Journal of Small Craft Technology*). Members should also decide if they wish to receive *Ship & Boat International* and *Ship Repair & Conversion Technology*, in addition to *The Naval Architect*, *Warship Technology* and *Offshore Marine Technology* and Supplements which they receive free of charge. I would urge all members who do not already do so to consider taking these journals. These are available to members at a reduced cost of £39 for the *IJME* (four issues per year), £26 for the *IJSCT* (two issues per year), £40 for *S&BI* (six issues per year) and £25 for four issues of *SR&CT*, free of p&p. They are all first class journals and are widely acknowledged in the world maritime industry as leaders in their fields. More copies sent to members means larger circulations, which makes the journals more attractive to advertisers, which increases the Institution's income, which means lower Annual Fees!

Trevor Blakeley

IN THIS ISSUE

President's Invitation Lecture

A record number of guests attended the 2011 President's Invitation Lecture, presented by Sergey Frank, President and CEO of SOVCOMFLOT.

Awards

The achievement of students at Genoa University, Newcastle University (Singapore) and Ecole Nationale Supérieure de Techniques Avancées are recognised by the RINA Student Naval Architect Awards.

Engineering undergraduate survey

All UK Student Members are invited to take part in an online survey of their motivations and career intentions.

Corporate Partners

International Paint Ltd becomes the latest Corporate Partner member of the Institution.

Library

Recent additions to the Library include a number of books celebrating the 100th anniversary of the maiden voyage of the Titanic.

Members' Services

Members' services now include free White membership of WEXAS Travel.

RINA - LR Maritime Safety Award

Nominations are invited for the RINA - Lloyd's Register 2011 Maritime Safety Award.

2012 Events Programme

The 2012 Events programme includes a wide range of international conferences and training courses.

Appeal for new members

An open letter from the Chief Executive invites members to encourage others to follow their lead in becoming members of the Institution.

Simplified Scantlings Calculator Method

The International Council of Marine Industry Associations (ICOMIA) supported by the International Marine Certification Institute (IMCI) has launched a scantlings calculator which uses a series of easy-to-use spreadsheets in order to provide a calculation method to help and encourage builders to comply with ISO (Small Craft) Scantling standard 12215 Part 5.

Particularly used for the EU Recreational Craft Directive (RCD) compliance, builders face a number of challenges when self-assessing scantlings for craft of hull length less than 12-meters in all design categories. In order to comply with RCD requirements, builders use the 'Harmonised Standard' which provides the 'Presumption of Conformity', however the complex nature of these documents often force them into to hiring a consultant or seeking a way to bypass the proof of compliance with the RCD.

In response to these issues, ICOMIA's Technical Committee initiated a study (sponsored by IMCI), and upon approval from ISO, commissioned Southampton Solent University to develop a series of Excel spreadsheets designed to be used in conjunction with the ISO standard and specifically for use by self-certifying builders for whom 12215 Part 5 may be too daunting or time consuming. The 'Scantlings Calculator' can be accessed for free to legitimate owners of Part 5 at www.icomia.com

THOUGHTS FOR 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*

JANUARY-JUNE 2012 EVENTS PROGRAMME

MARINE COATINGS – RISK MANAGEMENT COURSE

27 January 2012, London, UK
[www.rina.org.uk/
marinecoatingscourse](http://www.rina.org.uk/marinecoatingscourse)

PACIFIC 2012: INTERNATIONAL MARITIME CONFERENCE

31 Jan – 2 Feb 2012, Sydney, Australia
www.rina.org.uk/pacific2012

THE ENVIRONMENTALLY FRIENDLY SHIP

28-29 February 2012, London, UK
[www.rina.org.uk/
environmentallyfriendlyship](http://www.rina.org.uk/environmentallyfriendlyship)

THE SYSTEMS ENGINEERING CONFERENCE

28-29 March 2012, London, UK
[www.rina.org.uk/
systemsengineering2012](http://www.rina.org.uk/systemsengineering2012)

DESIGN AND OPERATION OF LNG CARRIERS

25-26 April 2012, London, UK
www.rina.org.uk/LNG2012

FUNDAMENTALS OF CONTRACT DESIGN AND CHANGE MANAGEMENT IN SHIP CONSTRUCTION, REPAIR AND DESIGN

2-4th May 2012, London, UK
www.rina.org.uk/May_fundamentals

ICSOT KOREA: DEVELOPMENTS IN FIXED & FLOATING OFFSHORE STRUCTURES

23-24 May 2012, Busan, Korea
<http://www.rina.org.uk/icsotkorea2012>

3RD CONFERENCE ON SHIP MANOEUVRING IN SHALLOW AND CONFINED WATER

3-5 June 2013, Ghent, Belgium
[http://www.rina.org.uk/Ship_
Manoeuvring_in_Shallow_Water](http://www.rina.org.uk/Ship_Maneuvring_in_Shallow_Water)

JUNE-DECEMBER 2012 EVENTS PROGRAMME

WARSHIP 2012: THE AFFORDABLE WARSHIP

20-21 June 2012, Bath, UK
www.rina.org.uk/warship_2012

THE INTERNATIONAL CONFERENCE ON ICE CLASS VESSELS

4-5 July 2012, London, UK
www.rina.org.uk/iceclassships

BASIC DRY DOCK

11-14 September 2012, London, UK
www.rina.org.uk/basic-drydock-2012

THE INTERNATIONAL CONFERENCE ON MARINE & OFFSHORE RENEWABLE ENERGY

26-27 September 2012, London, UK
[www.rina.org.uk/
marineoffshorerenewableenergy](http://www.rina.org.uk/marineoffshorerenewableenergy)

FUNDAMENTALS OF CONTRACT AND CHANGE MANAGEMENT FOR SHIP CONSTRUCTION, REPAIR AND DESIGN

3-5 October 2012, London UK
[www.rina.org.uk/October_
fundamentals](http://www.rina.org.uk/October_fundamentals)

MARINE HEAVY TRANSPORT AND LIFT III

24-25 October 2012, London, UK
www.rina.org.uk/marineheavylift2012

ICSOT INDONESIA: DEVELOPMENTS IN SHIP DESIGN AND CONSTRUCTION

7-8 November 2012,
Ambon, Indonesia
[http://www.rina.org.uk/
icsotindonesia2012](http://www.rina.org.uk/icsotindonesia2012)

HISTORIC SHIPS 2012

5-6 December 2012, London, UK
[http://www.rina.org.uk/historic_
ships_2012](http://www.rina.org.uk/historic_ships_2012)

Corporate Partners

International Paint Ltd

International Paint Ltd is the latest company to demonstrate its commitment towards encouraging its engineers to achieve high standards of professional competence by becoming a Corporate Partner member of the Institution.

Does 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 member 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 Programmes and free accreditation of Programmes.
- 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.
- Listing in the Maritime Services Directory.
- ‘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 local branch meetings, providing an 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, including a list of those companies who have already become Corporate Partners, or from the Chief Executive at hq@rina.org.uk or tel: +44 (0)20 72354622.

INTERNATIONAL PRIZE FOR ENGINEERING

The UK Royal Academy of Engineering has introduced a new global award for engineering. The Award will recognise outstanding advances in engineering that have created significant benefit to humanity. The biennial Prize, of significant monetary value, will be awarded to an individual or team of up to three people, of any nationality, directly responsible for advancing the application of engineering knowledge.

Nominations will be accepted from the end of February 2012 until the end of July 2012. International nominations can be received from across the world. The only limitations are that self-nomination and posthumous nomination will not be permitted.

Further details are available on www.raeng.org.uk/QEprize

Members' services

WEXAS Travel

WEXAS Travel is offering members free White membership to their award-winning travel service for all their leisure and corporate travel needs.

WEXAS can manage all your holidays, cruises, short-breaks, hotel and flight bookings and more. Not to mention tailor-made itineraries, which is their speciality. The well-travelled specialists relish sharing their travel tips and first-hand experiences, whether you're booking a luxury trip or weekend away. It's this in-depth expertise and independent opinion that makes them different from other travel agents and tour operators.

WEXAS is one of the UK's most respected travel companies, endorsed by such Honorary Presidents as Sir Ranulph Fiennes, John Simpson and Michael Palin. Founded in 1970 by current chairman Dr Ian Wilson, WEXAS remains an independent, family-owned business that provides the highest level of personal service. Discerning travellers come to WEXAS in search of

expert guidance and real value for money.

Free WEXAS White membership, which entitles members to a host of benefits at no extra cost:

- Personal one-on-one advice and booking service from well-travelled destination specialists
- FREE UK airport VIP lounge access on qualifying bookings
- Specially negotiated travel offers and member-only exclusives
- Travel service extended to friends and family
- 24/7 emergency overseas assistance

Find out more or to register for your free WEXAS White membership at no cost, visit www.wexas.com/rina or call 020 7838 5820, quoting '11M73'.

GENESIS Insurance

In addition to Travel Insurance services, Genesis now offer members Household Warranty Insurance.

Normal manufacturers warranty

insurance usually runs for a 12 month period and if you take a quick mental inventory of appliances and gadgets in the home it is likely that a large percentage will have fallen outside of normal manufacturers warranty cover.

Genesis offers Warranty Protection on a monthly rolling contract basis and you choose just what you want covered. The monthly rolling contract, means that as long as your monthly payment is made all of the products detailed in your appliance and gadget schedule are covered. Should you decide to cancel the arrangement you can do so at any time without penalty. Appliances up to 8 years old can be included, within the 3 cover levels available of £2,000 - £4,000 - £8,000.

For further details or a quotation, go to www.genesischoice.co.uk/rina/warranty

Other Members' Services

For details of other members' services, log on to the Members Only section at www.rina.org.uk/membership

New Members wanted

An open letter to all members

Dear member,

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

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

Chief Executive

Library Additions

The Library has received a number of books commemorating the 100 anniversary of the maiden voyage of the Titanic, including "Titanic – Triumph & Tragedy"; "Titanic – Destination Disaster" and "Titanic – The Unfolding Story". Other books include "Clydebank Battlecruisers" and

"Warships of the Napoleonic Era – Design, Development & Deployment"

The Library does not lend out books, but members are always welcome to visit the Library. Please contact Headquarters first to check that the Library is not being used for a meeting.

UAE Branch

Mr Rahul Kanotra, of McDermott Middle East Inc., presented a paper “Hydrodynamics of a SPARtype FPSO Concept for Application as a Production Platform” at a recent meeting of the UAE Branch.

A state-of-the-art nonshipshaped FPSO vessel for the applications to the frontier fields, including arctic, deepwater and harsh environment, is introduced here. Its application towards arctic field is described more elaborately. As a first phase of study,

extensive physical large scale model test is performed with disconnectable turret mooring for application in the arctic summer environment in shallow water. The arctic environment with ice conditions require turret mooring system for the vessel with the capability that the platform is removable in emergency conditions e.g., approaching icebergs. Motion behaviour of the vessel in waves with 100% turret mooring is determined physically in tank test. For wave conditions in another field location in the world with clear water, the vessel is also needed to be designed with 100% conventional mooring system. Hence, the effect of different kinds of mooring system, including 50% vessel and 50% turret mooring, on vessel behavior is studied. Key results on the comparison of test vs. analysis results are presented. These results are considered of immense interest and value to the Oil and Gas industry.

The presentation was attended by 52 people and was followed by a very interactive Q&A session.



Members of the UAE Branch

Scottish Branch

The following letter was sent by the Chairman of the Scottish Branch following a recent Branch technical visit:

Dear Gordon,

On behalf of the RINA Scottish Branch and our committee I would like to take the opportunity to thank FMC Technologies Ltd for hosting such an excellent event on Monday evening. The effort put in by FMC and you team was exceptional and the feedback from those who attended was extremely positive. It is good to see high end engineering practices in operation and there was so many points that had an interest for everyone who attended including:

- LEAN processes and how they are applied
- Engineering excellence and the degree of tolerances that are being achieved

- The drive for health and safety through the company that involves everyone
- The investment in technology, processes and people

I would also like to thank you for the hospitality provided on the evening which was greatly appreciated and although we tried I do not think we managed to finish.

It is clear from the response that there was a great deal of interest in this event and we could have doubled the numbers. However, on this occasion we restricted it to the numbers we could get on one bus (48). Perhaps you may consider if a similar event next year would be considered.

Regards

David Harley

Chairman RINA Scottish Branch

NSW Section

Fraser Johnson, Renewal Energy Manager for Oceanlinx Ltd, gave a presentation on Marine Renewables – Mooring Design for Wave-energy Systems to a joint meeting with the IMarEST attended by 18 on 7 September in the Harricks Auditorium at Engineers Australia, Chatswood.

Noel Riley, Principal of Commercial Marine Design, gave a presentation on Developing the Hullforms of Yesterday's Timber Vessels to a joint meeting with the IMarEST attended by 21 on 5 October in the Harricks Auditorium at Engineers Australia, Chatswood.

Phil Helmore

Aberdeen Maritime

At a recent Technical Meeting of the Aberdeen Maritime Branch, Bernie Steel of Lloyd's Register gave a presentation “An overview of many of the available specialist NDT methods”.

Fellow of the Institution receives Royal Academy Award

Professor Dracos Vassalos FRINA has been awarded the Sustained Achievement Medal (formally the Lifetime Achievement Award) by the Royal Academy of Engineering. He is the first naval architect to receive this Award.

Appointments

Professor I Ketut Aria Pria UTAMA FRINA has been appointed Head of Department of Naval Architecture and Shipbuilding Engineering at the Institut Teknologi Sepuluh Nopember (ITS), Surabaya.

RINA – d’Amico Student Naval Architect Award

The 2011 RINA – d’Amico Student Naval Architect Award was presented to Alessio Prestileo whose project entitled “*Probabilistic study of vertical bending moment and structural resistance for a crude oil carrier with damaged hull*” was adjudged to have been the best presented final-year project on the Naval Architecture and Marine Technology course at the University of Genoa.

L-R Professor Giorgio Molinari, Ing Maurizio d’Amico, Ing Lucio Bonaso (CEO d’Amico Dry), Ing. Alessio Prestileo



RINA – Keppel Student Awards

The following students were presented with the 2011 RINA-Keppel Student Awards for the best final year projects at Newcastle University (Singapore):

Lim Puay Sian

(BEng Naval Architecture with Marine Engineering)

Tan Wen Wei

(BEng Naval Architecture with Marine Engineering)

Khoo Yong Kiang

(BEng Naval Architecture with Offshore Engineering)

RINA – BV Student Naval Architect Award

The 2011 RINA – Bureau Veritas Student Naval Architect Award has been awarded to Cécile Siboni whose project “*Conception d’un sous-marin à impacts maîtrisés sur l’environnement*” was adjudged to have been the best final year project on the on the Naval Architecture and Offshore course at the Ecole Nationale Supérieure de Techniques Avancées, France.

PI INSURANCE

The November issue of ITIC’s newsletter “Wire” focuses on naval architecture, with a selection of articles giving practical information on loss prevention, as well as on contract terms, illustrated by a variety of claims examples.

This issue of Wire can be read at www.itic-insure.com/rules-publications/article/the-wire-issue-8-november-2011-focus-on-naval-architecture-3700

Jack Duncan

Transactions ('75-98)

Sir: I am working at the London office of Hyundai Heavy Industry. I'm calling on you to help us finding the whereabouts of UASC's former employees Mr. Jack Duncan and his successor Mr. Mike Turnbull who worked for UASC as Technical Director in the 1970's. We are urgently looking for their family to commemorate and express our heartfelt appreciation to late Mr. Duncan and Turnbull's honorable achievement and cooperation to Korean Shipbuilding Industry at the 1970s.

In this regard, if you have their contact info or know anyone who might know them, let me know or convey this message to the relevant person, please contact me.

Y H Chung
yihyo@hhi.co.kr

Sir:

As a retired Fellow & Member of Council some fifteen years ago, I have kept my annual Transactions, which I now have no further use for and would like to see them go to a good home.

Any individual or organisation who would like to have them should contact me by email. Who will have to make arrangements to pick them up in Poole, Dorset.

All that is known about Jack Duncan from his records is that he was a member of the Institution and died in 1978. No information is held about Mike Turnbull.

Stuart Welford
swelford@uwclub.net

TRANSACTIONS 1958-1978

Mr John Bennett MRINA has unopened copies for the Transactions 1958-1978. He would like to give them to anyone who is interested and is able to collect or arrange the collection. If interested, contact Luci Pham at lpham@rina.org.uk. Mr Bennett lives in Essex.



RINA Journals on CD ROM

In January every year since 1999, RINA has produced the following journals on CD ROM:

The Naval Architect and Ship & Boat International, plus Shiprepair & Conversion Technology and Warship Technology since 2001 and from 2005, Offshore Marine Technology.

The institution's journals are a source of valuable reference and provide a wealth of information.

A title and key word search facility is available to help you find a specific article or issue.

The Naval Architect 2011 and Ship & Boat International 2011, on CD ROM price each: £50 (RINA Member £45 each).

Shiprepair & Conversion Technology 2011, Warship Technology 2011, and Offshore Marine Technology 2011 on CD ROM.

Price each: £40
RINA Member: £35

Please send your order, or contact:

The Marketing Department, RINA,
10 Upper Belgrave Street,
London SW1X 8BQ, UK
Tel: +44 (0)20 7235 4622
Fax: +44 (0)20 7259 5912
E-Mail: publications@rina.org.uk
Website: www.rina.org.uk

The ideal reference to have in the library or when travelling!