



# RINA AFFAIRS

MARCH/APRIL 2011

The Newsletter of the Royal Institution of the Naval Architects

## CHIEF EXECUTIVE'S COLUMN



**M**y recent visit to Singapore, Malaysia, Indonesia and Australia, and the opportunity which it gave me to meet with members (and some soon to become members) and to visit companies and universities left me in no doubt as to the standing which the Institution enjoys in the international maritime community.

The Institution has members in 97 countries, with over 75% from outside the UK – a number which again increased last year – demonstrating conclusively that the Institution is truly an international organisation. The decision of naval architects and others, from Australia to Azerbaijan

to become members is confirmation that membership provides an internationally recognised demonstration of the highest standards of professional competence. Their membership also confirms the value which they place upon the Institution's international publications and conferences, providing the relevant and up-to-date information on developments across all sectors of the global maritime industry which is essential to maintaining that competence.

Few members of the maritime industry would deny the standing which the Institution's journals enjoy amongst the many similar publications which serve the industry worldwide – some better than others in terms of their accuracy and independence. The credit for that must go to the editorial staff and contributors, ably supported by the advertising teams. (I wonder how many members are aware that all editorial, advertising sales and production is done in-house, leaving only the printing and distribution to be out-sourced). The internationalism of the Institution's journals is reflected in their distribution in over 100 countries, giving them a truly global circulation.

The Institution's conferences also enjoy a high reputation for their quality of both content and organisation, and the Innovation in High Speed Marine Vessels Maritime Conference in Fremantle which I attended was a very good example. The Institution provides an international programme of conferences of the highest quality which no other professional society or commercial conference organiser can match.

I believe that the Institution enjoys a standing in the international maritime industry which is unmatched by any professional society serving the professional needs of those involved in the design, construction and maintenance of marine vessels and structures. This is demonstrated by the number of companies which recognise corporate membership as meeting their requirements for professional recognition, seek the Institution's assistance in developing and accrediting their Graduate Training Programmes or become Corporate Partner members.

I make no apology for beating the drum for the Institution, and I invite all members to do the same in whatever way they can. Membership is surely something to be proud of.

And finally, may I take this opportunity to thank the many members in Singapore, Malaysia, Indonesia and Australia whom I met for their warm welcome.

*Trevor Blakely*

## IN THIS ISSUE

### 2011 Annual Fees

Members are reminded that Annual Membership Fees were due on 1 January 2011. If in doubt as to whether they have been paid, or a Notice was not received, please contact RINA Headquarters.

### 2011 AGM

All members are invited to the 2011 Annual General Meeting on 13 April, at RINA Headquarters.

### 2011 Annual Dinner

It is not too late to book a ticket or company table at the Annual Dinner on 13 April.

### Bookshop Bargains

This month's Bookshop Bargains, with discounts of up to 75%, include the Proceedings from the High Speed Craft series of conferences.

### Corporate Partners

The Institution welcomes new Corporate Partner members from Germany, Canada and Bangladesh.

### Headquarters Facilities

The Headquarters' facilities, within 5 minutes walk of the nearest rail, tube and bus stations, are available for private meetings and functions. Catering, AV, Internet facilities etc can all be provided.

### Quotes for the Month

Who said "Engineering is the art of modeling materials we do not wholly understand, into shapes we cannot precisely analyse...."?

### Letters to the Editor

Letters to the Editor include "Froude's clock" and an invitation for a naval architect to take part in an oil spill collection project.

# Corporate Partners

The Institution welcomes Siemens PLM Software (Germany), Maritile Inc (Canada), Berg Propulsion (Sweden) and Cambridge College (Bangladesh) as the latest companies and organisations which have chosen to demonstrate their commitment to high professional standards by becoming Corporate Partner members of the Institution.

## Corporate Partner membership

In addition to a wide range of 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.

Members who are interested in their company or organisation, whether large or small, becoming a Corporate Partner and thereby demonstrating its commitment to high professional standards should contact the Chief Executive at [hq@rina.org.uk](mailto:hq@rina.org.uk) or visit the Corporate Partner page on the website at [www.rina.org.uk/CorporatePartners](http://www.rina.org.uk/CorporatePartners) for further information.

# 2011 Annual Dinner

The 2011 Annual Dinner of the Institution will once again be held at The Lancaster London Hotel, when the principal speakers will be Alan Johnston CBE, Managing Director, BAE Systems Maritime, and the Revd Tom Heffer, Secretary General of the Mission to Seafarers. Tickets for the dinner cost £102 (+ VAT), exclusive of wine.

This year, in addition to the Members'

Table, there will be a Small Craft table for members and their guests to sit at the same table as other members of the small craft community, putting the industry to rights at the same time as enjoying the fine meal and entertaining speeches. Other tables for groups of members can also be arranged. For further details, contact Sally Charity at [scharity@rina.org.uk](mailto:scharity@rina.org.uk) or 020 7235 4622.

## Annual Dinner



## 2011 ANNUAL MEMBERSHIP FEES

*Members are reminded that their 2011 Membership and EC Registration fees (if appropriate) were due on 1 January 2011.*

*Members who have not yet done so are requested to forward their payment as soon as possible, using one of the payment methods shown on the Notice. Where there is no change to the amount shown on the Notice, payment may be made online.*

*Members who have any queries about their Membership or Registration fees, or who have not yet received their 2011 Annual Fees Notice are requested to contact the Accounts Department at [accounts@rina.org.uk](mailto:accounts@rina.org.uk) or by telephone at +44 (0)20 7235 4622.*

## Visitors to Headquarters

Recent Visitors to RINA Headquarters included Mr Albert Lo, Vice Chairman of the Hong Kong Joint Branch.

Chief Executive, Mr Trevor Blakeley and Mr Albert Lo



## 2011 ANNUAL GENERAL MEETING

**NOTICE IS HEREBY GIVEN THAT IN ACCORDANCE WITH BY-LAWS 39 AND 42, THE ANNUAL GENERAL MEETING OF THE INSTITUTION WILL BE HELD AT 10 UPPER BELGRAVE STREET, LONDON, SW1X 8BQ, ON WED 13 APRIL 2011 AT 1100 FOR THE FOLLOWING PURPOSES;**

1. *To receive the Annual Report of Council and the Financial Statement for the year ended 30 September 2010.*
2. *To consider and if felt fit, approve the following Resolutions:*

*Resolution 1: To re-elect Mr A Marsh as Treasurer.*

*Resolution 2: To re-appoint haysmacintyre as the Institution's auditors*

*Note.*

1. *All members have the privilege to attend the above meeting, but only Voting Members are entitled to vote on the Resolutions.*
2. *Members entitled to vote on the Resolutions may appoint the Chairman of the meeting as their proxy to vote on their behalf.*

*Members may register their proxy vote by email (click here) or by post (click here)*

*"Titanic Revisited"*

*On completion of the AGM, a presentation "Titanic Revisited" will be given by Mr Stephen Payne FRINA*

## Library Additions

Recent additions to the Weir Library include "*Thorpe's Trainees – A History of Sail Training in Queensland*", donated by the author, Brian Hutchison FRINA.

The origin of the book is the training nursery brought together by Nip Thorpe in the 1934/35 season. The class of boat that developed was the training dingy, trainee dingy or nip Thorpe trainee, which later became the Thorpe 12.

Published privately, copies may still be obtained from Brian at [brghutchison@hotmail.com](mailto:brghutchison@hotmail.com)

## Bookshop Bargains

This month's Bookshop Bargains, with discounts of up to 75%, include the Proceedings from the High Speed Craft series of conferences – ACV, WIGS & Hydrofoils (2006); Design & Operation (2004) Technology & Operation (2002); Hydrodynamics (2000); High Speed Motions & Manoeuvrability (1998).

For details and to order, visit [www.rina.org.uk/Bookshop](http://www.rina.org.uk/Bookshop)

## Austal Young Achiever Wins National Award

### 17 February 2011

Austal employee, Byron Walpole, was presented with the prestigious Australian Industry and Defence Network (AIDN) 2011 National Young Achiever of the Year Award at a defence industry ceremony held in Canberra in early February.

Mr Walpole was the recipient of the Western Australian Young Achiever Award in late December 2010, and, as a result, was entered into the National competition, which recognises the achievements and potential of individuals within the defence industry.

Mr Walpole, from Hilton, Western Australia has been instrumental in extending Austal's impressive naval architecture credentials as a result of his substantial input into the designs of the US Navy Joint High Speed Vessel (JHSV) and the US Navy Littoral Combat Ship (LCS).

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# Shanghai Branch

The first RINA Shanghai Branch technical meeting in 2011 was held on 13 January. Mr James Wu, regional advisory manager for DNV Greater China delivered a wonderful speech on ballast free VLCC powered by LNG.

The new crude oil concept vessel, named Triality, has been developed through a DNV innovation project. Compared to the traditional VLCC, the Triality VLCC have the following advantages while both ships have the same operational range and can operate in the ordinary spot market:

- emit 34% less CO<sub>2</sub>
- eliminate entirely the need for ballast water
- eliminate entirely the venting of cargo vapours (VOCs)
- use 25% less energy
- NOx emissions will be reduced by more than 80%
- SOx and particulate matter will fall by as much as 95%.



Mr Peter Campbell (Vice Chairman), Mr James Wu, Mr Yang (Chairman)

There were around 30 attendees from Class societies, Universities and shipping companies attending the meeting. At the beginning of the meeting, the Chairman Mr.Yang Xinfia

gave a warm greetings and thanks to all members for their continuous support during the past year and introduced the new vice Chairman Mr Peter Campbell from Lloyd's Register to all.

# Malaysian Joint Branch

During a visit to Malaysia, the Chief Executive visited the Universiti Teknologi Malaysia, the Malaysian Institute of Marine Engineering Technology of the Universiti Kuala Lumpur and the Universiti Malaysia Terengganu. He also visited local boatyards and later met with members of the Malaysian Joint Branch Committee.

The Chief Executive with members of Malaysian Joint Branch Committee



## ANTI-PIRACY WORKSHOP

*At a recent informal meeting of NGOs interested in anti piracy measures, reference was made to the design, use and effective success rate of Citadels as a means of defence off the Somali coast / in the Indian Ocean. Citadels had been used successfully in 12 attempted hijackings in the Indian Ocean. As to general guidance on the design of a Citadel, EUNAVFOR (European Naval Force) stated that a Citadel should:*

- *Provide security from armed attack, fire, smoke and other threats;*
- *Provide a secure space for all crew members and any security/other personnel onboard;*
- *Have adequate supplies and sanitation facilities for a minimum of three days;*
- *Have long-range communication capability; and*
- *Ideally have some ability to control the manoeuvring of the vessel, although this latter facility may not be readily available.*

*It was of course well recognised that the above would be difficult to achieve fully on existing ships and also may not be widely supported for all new ships.*

# Chennai Branch

At a recent meeting of the Chennai Branch, Professor Neil Bose, Director, AMC - National Centre for Maritime Engineering and Hydrodynamics, University of Tasmania, Australia, gave a presentation "An application of paddlewheel propulsion to a high speed craft".

# Korean Branch

## RINA – Lloyd's Register Asia Student Awards

The Korean Branch held its 2011 Annual Dinner at Paradise Hotel, Busan. At the Dinner, the 2010 RINA – Lloyd's Register Asia Student Naval Architect Awards were presented to:

Byoung-Nam Kim  
(Mokpo National University)  
Huai-Ji Li  
(Pukyong National University)  
Woong-Sup Park  
(Pusan National University)  
Kyoung-Hyun Lee  
(Seoul National University)  
Yoon-Nam An  
(University of Ulsan)  
Dae-Won Seo  
(Inha University)  
Jung-Sun An  
(Chosun University)  
Joo-Hee Lee  
(Korea Advanced Institute of Science and Technology)  
Ji-Hoon Lee  
(Korea Maritime University)

## Winners of the 2010 RINA – LR Asia Student Naval Architect Awards



## 2011 EVENTS PROGRAMME

### RINA ANNUAL DINNER

13 April, London, UK  
<http://www.rina.org.uk/annualdinner2011.html>

### HIGH PERFORMANCE MARINE VESSELS

15-16 April 2011, Shanghai, China  
[http://www.rina.org.uk/hpmv\\_china\\_2011.html](http://www.rina.org.uk/hpmv_china_2011.html)

### DESIGN, CONSTRUCTION & OPERATION OF SUPER & MEGA YACHTS

5-6 May 2011, Genoa, Italy  
<http://www.rina.org.uk/superandmegayachts2011>

### BASIC DRYDOCK TRAINING COURSE

10-13 May 2011, London, UK  
<http://www.rina.org.uk/basicdrydock2011>

### SHIP MANOEUVRING IN SHALLOW AND CONFINED WATERS

18- 20 May 2011, Trondheim, Norway  
<http://www.rina.org.uk/ShipManoeuvring2011>

### HIGH SPEED MARINE VESSELS

26-27 May 2011, Naples, Italy  
<http://www.rina.org.uk/HSMV2011>

### DESIGN & OPERATION OF TANKERS

8-9 June 2011, Athens, Greece  
<http://www.rina.org.uk/tankers2011>

### WARSHIP 2011: NAVAL SUBMARINES AND UUVS

29- 30 June 2011, Bath, UK  
<http://www.rina.org.uk/warship2011>

### THE INTERNATIONAL CONFERENCE ON MARINE DESIGN

14-15 September 2011, Coventry, UK  
<http://www.rina.org.uk/marinedesign>

# École Nationale Supérieure des Ingénieurs des Études et Techniques d'Armement

220 delegates attended the first “Rendez-vous du Monde Maritime” (“Maritime Industries Meeting”), organised by ENSTA in order to gather professionals

and students and discuss technological and economic issues in marine fields (marine renewable energies, ship building, oil and gas offshore). Top

executives and managers were invited to debate on future developments and technologies in the maritime industry. The meeting was supported by the Institution.

The round-table discussions were led by ENSTA students, many of them Student Members of RINA, and covered most of the primordial aspects in marine renewable energies and ship building. The melting pot between students, professionals, marine academy members or French maritime institutes encouraged passion and experience sharing between the generations.

A second “Rendez-vous du Monde Maritime” is planned.



“Rendez-vous du Monde Maritime”

## Technical University of Delft

### “The whole nine yards”

The Study Association S.G “William Froude” is organising a symposium in Rotterdam on the 13 May 2011,

focussing on research and development for different ship types. The theme of the symposium will be “The whole nine yards” – a synonym for ‘the whole package’ but

also for ‘strain every nerve’, reflecting the need for industry to innovate if it is to succeed. Details of the symposium are at [www.froudesymposium.eu](http://www.froudesymposium.eu)

## Southampton University

### Marine Technology Postgraduate Conference (MTPC 2011)

MTPC 2011 will be held at the University of Southampton on 9 and 10 June 2011.

Successfully held for the first time at the University of Newcastle upon Tyne in 2010, the aim of MTPC is to bring together the marine technology academic research community to present their

current work in front of fellow research students, academics and industrialists.

The event is sponsored by Lloyd's Register and supported by the Royal Institution of Naval Architects.

The deadline for submission of abstracts by presenting authors is Monday 16 May 2011. For further information or to register, please contact: [ukmtpc@soton.ac.uk](mailto:ukmtpc@soton.ac.uk) or visit [www.soton.ac.uk/ses/research/fsi/](http://www.soton.ac.uk/ses/research/fsi/)

## Ngee Ann Polytechnic

The following students have been awarded the 2011 RINA-Keppel Student Naval Architect Award for outstanding performance in the module ‘Ship Design’ (Group Project) in Marine Offshore Technology Diploma Course in the Academic Year 2010/2011: for their project *Concept Design of Oil Tanker*.

Teo Jackson and Shi Xiang for their project *Concept Design of Oil Tanker*.

Nursyahidah Bte Mazlan and Low Sze Chi Jackie for their project *Design of Oil Tanker*.

# Oil Spill Collection

Sir: The human factor is a bottleneck in standard oil spill cleaning operations; human resources are limited and cleaning oil spills means being exposed to toxic pollutants. Cleaning oil spills could happen much more efficient and safe when vessels would operate autonomously.

Protei is a fleet of autonomous oil spill collection vessels. Each Protei vessel consists of a sailing propulsion head and a long oil absorbing tail. Protei is based on the simple premise that because an oil spill moves and spreads down winds, currents and waves, the most efficient way to clean it is to use these same natural forces to sail upwind while capturing oil.

To collect the oil, Protei is equipped with a conventional oil absorbing boom as tail. This boom tail can take up to 25 times its own mass in oil and can be reused many times. A Protei fleet can reach far remote places to collect a spread oil spill and can operate in storms and difficult waters due the inflatable, self-righting and collision-safe design of the individual vessels.

A team of 10 engineers (maritime, ocean robotic, mechatronic, electronic, software, design, hardware) is assembling at V2\_Lab in Rotterdam this summer to build a full scale prototype to be presented at World Port Day in Rotterdam on the 2nd, 3rd and 4th of September. In order

to complete the team, we are looking for a naval architect to develop and validate the different concepts of hulls, rigs and sails of Protei. Protei is being developed in Open Hardware, so that anyone can contribute, use, modify and commercialise it.

The contact person at V2 is Piem Wirtz, [piem@v2.nl](mailto:piem@v2.nl) and the project coordinator is Cesar Harada, [contact@protei.org](mailto:contact@protei.org) Please visit <http://protei.org> for more information.

*On behalf of the Protei team,  
Etienne Gernez  
[etienne@opensailing.net](mailto:etienne@opensailing.net)*

## William Froude's Clock

Sir: I had been looking for a long case clock for sometime and came across a very nice one that was owned by William Froude so thought 'that's the one for me!' So now in the entrance to my office stands the clock William Froude looked at!

*Tim Heywood FRINA*

### QUOTES OF THE MONTH

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

*William Froude, 1875.*



## David William Symonds

Sir: I am pleased to tell you that my husband, David William Symonds, is still alive and well, now in his 90th year. If you recall in January 2009, he had belonged to RINA for 55 years and he still looks forward to the magazines and the on-line news. However, I thought you would be interested to know that a historian contacted us via 'the Royal Southern Yacht Club'. He was amazed to find that David designed, built and raced in the first power boat race sponsored by the Daily Express. He has written a booklet about the Pacemaker boats which were built from plywood. David made over 200 of these and there are still 50 of them left! If you would care to find out more, you can contact Charles Lawrence at [claaw4@me.com](mailto:claaw4@me.com) or call 075 900 36723.

*Maggie Simmonds*

### QUOTES OF 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.*