

Editor Nick Savvides
Assistant Editor Samantha Fisk
Design/Production Manager Sandy Defraime
Group Sales Director John Payten
Assistant Advertisement Manager Daniel Payne
Advertisement Production Manager Stephen Bell
Subscriptions & Publications Manager Josie Pearlson
Publisher Mark J Staunton-Lambert

Published by:
 The Royal Institution of Naval Architects
 Editorial & Advertisement Office:
 10 Upper Belgrave Street
 London SW1X 8BQ, UK
 Telephone: +44 (0) 20 7235 4622
 Telefax: +44 (0) 20 7245 6959
E-mail editorial editorial@rina.org.uk
E-mail advertising advertising@rina.org.uk
E-mail production production@rina.org.uk
E-mail subscriptions subscriptions@rina.org.uk

Printed in Wales by Stephens & George Magazines.

The Institution is not, as a body, responsible for opinions expressed in *The Naval Architect* unless it is expressly stated that these are the Council's views.

Registered charity No. 211161
 © 2011 The Royal Institution of Naval Architects. This publication is copyright under the Berne Convention and the International Copyright Convention. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted without the prior permission of the copyright owner. Permission is not, however, required to copy abstracts of papers or of articles on condition that a full reference to the source is shown. Multiple copying of the contents without permission is always illegal.

A 2012 subscription to *The Naval Architect* costs:

	12 Months	24 Months	36 Months
Inland	£158	£274	£395
Europe	£165	£288	£412
Overseas	£177	£309	£444

Average Net Circulation 11,221
 1 January to December 2010
 ISSN 0306 0209



7 Editorial comment

Collaborate to innovate

8-14 News

- 8-10 News
- 12-14 Equipment news

16-18 In-depth

- 16-18 **Inland vessels** | Inland vessel market gets busy

41 Crew's views

Hearing aids

50 Diary



My fastest route to fuel efficiency and safety. Original Parts and Original Service.



Power and productivity for a better world™ **ABB**

ABB Turbocharging Original Parts embody technology straight from the OEM. ABB Turbocharging Original Service employs know-how straight from the OEM. A magic combination for economy and reliability. www.abb.com/turbocharging

20-39 Features

Feature 1 Japan

- 20-23 Crisis collaboration unites Japanese maritime industry
- 24-29 Back to the future
- 30-32 *Tønsberg* built for the future

Feature 2 Spain

- 34-35 Workers demand government action for ailing Spanish yards

Feature 3 Chemical & Product tankers

- 36-38 Chinese yards take growing share of chemical tanker orders
- 39 Hughes has a blast



On-line Edition

The Royal Institution of Naval Architects is proud to announce that as of January this year, *Shiprepair and Conversion Technology* journal has gone digital. We are very pleased to inform the maritime industry that each issue will be published online, on the RINA website. Visit www.rina.org.uk/srct and click on the issue cover you wish to view. This means that the entire publication, including all editorials and advertisements in the printed edition, can be seen in digital format and viewed by members, subscribers, and (for a limited time) any other interested individuals worldwide.

