Editor Nick Savvides
Assistant Editor Samantha Fisk
Design/Production Manager Sandy Defraine
Group Sales Director John Payten
Assistant Advertising Manager Valder Gates
Advertisement Production Manager Stephen Bell
Subscriptions & Publications Manager Josie Smith
Publisher Mark J Staunton-Lambert

Published by: The Royal Institution of Naval Architects Editorial & Advertisement Office: 8-9 Northumberland Street London, WC2N 5DA, 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

© 2015 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 2015 subscription to The Naval Architect costs:

NAVAL ARCHITECT

12 months	Print only†	Digital Only*	Print + Digital
UK	£177	£177	£227
Rest of Europe	£185	£177	£235
Rest of World	£198	£177	£248

10 issues per year;

†Incudes p+p *Inclusive of VAT

inclusive of VAT

Average Net Circulation 10,933 1 January to December 2013 ISSN 0306 0209



7 Editorial comment

The future of the maritime industry

8-18 **News**

8-10 News

12 News analysis

14-18 Equipment news

20-38 In-depth

20-26 **Global emissions:** | Is a radical shift in shipping on the horizon

27-32 Ship trials: | Meeting the standards

34-35 Clarksons: | Historic and scheduled delivery statistics

36-38 **Coatings:** | Predicting the rough with the smooth

58-60 Ro-ro | Stena's many happy returns

62 Diary



ESCHER WYSS PROPELLERS

No Compromise



ANDRITZ HYDRO GmbHEscher-Wyss-Weg 1, 88212 Ravensburg
Tel: +49 (751) 295 11-0, Fax +49 (751) 295 11-679





An optimal product impresses with all of its components. If you demand the highest standards of quality, then we have plenty in common.

Escher Wyss Propellers offer uncompromising performance, tailor-made to your requirements – with over 80 years of experience.

www.escherwysspropellers.com

40-57 Features

Feature 1 Cruise ship technology

40-43 Cruise line moves to meet new emission regulations

Feature 2 China

44-47 Blue Whale series surfaces

48-49 Market doubts issue 55 effectiveness

Feature 3 Finland

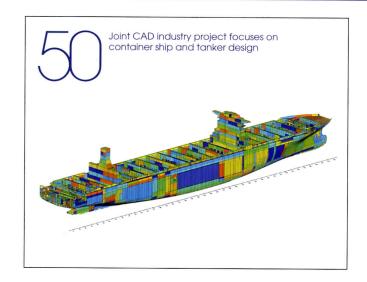
50-51 3D design application saves time and money

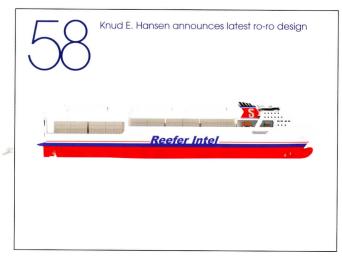
52-53 A glass apart

Feature 4 Propellers & thrusters

55 Rolls-Royce thrusts into the future

57 Veth goes green







Pocadel holds strong in the cruise ship market



Digital Editions

The Naval Architect is published in print and digital editions. The current and archived digital editions (from January 2004) may be read on PC, iPad or other touchpad.

Visit http://www.rina.org.uk/na-digital.html to read the digital editions, or download the free RINA Publications App.

