# **32nd Annual Propulsion and Emissions Conference 2010**

## Hamburg, Germany 28-29 April 2010

**Editors:** 

**Bill Thomson** 

ISBN: 978-1-63266-761-8

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by Mercator Media Ltd All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact Mercator Media Ltd at the address below.

Mercator Media Ltd The Old Mill Lower Quay Fareham Hampshire PO16 0RA United Kingdom

Phone: +44 1329 825335 Fax: +44 1329 825330

corporate@mercatormedia.com

#### Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2634 Email: curran@proceedings.com Web: www.proceedings.com

#### **SESSION 1 – Fuels**

Latest updates regarding IMO and EC Directives with respect to the Bunker Industry25
Additive solutions to carbon fouling, particulate emissions & cold corrosion27
Challenges and safety considerations of the use of natural gas as fuel

### **SESSION 2 – Shipping and greenhouse gases**

Outcome of IMO's MEPC 60	45
Reducing GHG emissions from ships – The concept of an International Greenhouse Gas Fund	47

### SESSION 3 – Energy efficiency in ships

Future required energy efficiency of container vessels
Improving your ships efficiency by doing the right maintenance at the right time61

### SESSION 4 – Exhaust gas after-treatment

Steering in the Right Direction: Emissions Control Legislation drives Marine Exhaust Gas Cleaning Solutions	.81
DryEGCS® - Experiences and results of the first Dry Scrubber Installation	.83
Cost-Saving Sulphur Emission Abatement Technology	.97
Marine aftertreatment solutions from Wärtsilä	.99

### **SESSION 5 – Lubrication**

The development of new cylinder lubricant chemistries in a changing regulatory world115
Detecting Asphaltene Contamination: Using science to help ship operators optimise lubricant consumption and maintenance
Better decisions, faster protecting critical marine equipment, reducing operating costs and safeguarding against downtime through online oil condition monitoring129
Reducing marine oil pollution by raising standards in marine lubricants

#### DAY 2

#### **SESSION 6 – Propellers and propulsion systems**

Feathered propellers increases flexibility & efficiency of multi screw vessels149
Compact pump jet pod propulsion: the right solution to increase ferries' performanceFÍ Í
Environmentally friendly lubricants for propellers - A challenging developmentFÎ F
Energy Saving Propulsion Retrofit Solutions

#### **SESSION 7 – Diesel-electric propulsion**

Main Propulsion with Soft StartersFÌ Ï
Diesel electric and hybrid propulsion systemsFJÍ

### **SESSION 8 – Engine Design**

New emission regulations, market requirements and engine technology based solutions Geí
Large marine diesels in challenging times, enhancing economy and controlling emissionsGF $\ddot{I}$

#### SESSION 9 – Ship design, building and equipment

Reducing through life costs with composite pipe systems	Gấ
Operational and environmental benefits of foul release coatings	GHÏ
Pumping and metering low sulphur fuels	G H
SHIPOWNERS' DEBATE: Reducing emissions to zero!	253
CONTACT LIST	257

#### Sponsored by:

