

# SESSIONS

PRE-CONFERENCE WELCOME - 21/03/2017

Green Ship Technology Europe

22 - 24 March 2017  
Radisson Blu Scandinavia Hotel  
Copenhagen

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**Welcome Drinks Reception Sponsored by  
DuPont**

18:30 - 20:30  
Main agenda

# SCHEDULE

PRE-CONFERENCE WELCOME - 21/03/2017

Green Ship Technology Europe

22 - 24 March 2017  
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Copenhagen

TIME	MAIN AGENDA
18:00	18:30 - Welcome Drinks Reception Sponsored by DuPont

# SESSIONS

DAY 1 - 22/03/2017

Green Ship Technology Europe

22 - 24 March 2017  
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## Registration

08:15 - 09:00  
Main agenda

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## Chairman's Introduction

09:00 - 09:05  
Main agenda

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## Keynote Address: Results from MEPC70

09:05 - 09:30  
Main agenda

## Participants

Edmund Hughes, Head, Air Pollution and Energy Efficiency, Marine Environment Division, IMO

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## Preparing for 2020; are we ready for the global sulphur cap?

09:30 - 10:05  
Main agenda

## Participants

Anna Larsson, Global Head of Sustainability, Vice President, Wallenius Wilhelmsen Logistics and Chair, Trident Alliance

Peter Krog-Meyer, Senior Adviser, Danish Maritime Authority

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## Implementation of the EU MRV: finalising the details

10:05 - 10:30  
Main agenda

## Participants

Heiko Kunst, DG Climate Action, European Commission

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## Morning Coffee and Networking Break

10:30 - 11:15  
Main agenda

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## Chairman's Introduction

11:15 - 11:20  
Stream 1: Air Emissions

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## Chairman's Introduction

11:15 - 11:20  
Stream 2: Ballast Water & Waste Management

## Participants

Jon Stewart, President, International Maritime Technology Consultants

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## How can we accelerate the use of LNG as ship's fuel?

11:20 - 12:00  
Stream 1: Air Emissions

- Overcoming the challenges for LNG as a ship's fuel
- Managing the transition to LNG bunkering in ports
- Streamlining regulation

## Participants

Anna Apostolopoulou, Poseidon Med II Project Manager, on behalf of Lloyd's Register, Piraeus BDT, Marine and Offshore, Hellenic Lloyd's S.A.

Tom Strang, Senior Vice President, Maritime Affairs, Carnival Corporation & plc

Juan Carbayo Puig, Business Development Manager, Cepsa Gas Comercializadora S.A.

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## Ballast Water Convention Ratification; what's next for the industry?

11:20 - 12:00  
Stream 2: Ballast Water & Waste Management

- What are the key requirements to be compliant?
- Where do the issues lie between IMO and US regulations?
- How well prepared is the industry to meet the compliance deadline?

## Participants

Peter Lundahl Rasmussen, Senior Marine Technical Officer/BIMCO Shipping KPI Manager, BIMCO

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## Retrofit guidance: is your vessel ready for LNG and alternative fuels?

12:00 - 12:20  
Stream 1: Air Emissions

- Assessing costs and benefits for retrofitting
- Is it better to scrap and build new LNG ready vessels?

## Participants

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## Revisions of the Guidelines (G8): what impact has MEPC70 had?

12:00 - 12:20  
Stream 2: Ballast Water & Waste Management

- What have been the major changes introduced by the revision?
- How will these affect different industry stakeholders?

## Participants

Sahan Abeysekera, Lead Specialist, Engineering Systems, Lloyd's Register

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## Networking Lunch

12:20 - 13:40  
Main agenda

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## Developing a simultaneous NOx and SOx abatement system

13:40 - 14:00  
Stream 1: Air Emissions

- Analysing after treatment of marine engine exhaust gas
- Managing oxidation process of exhaust gas with a scrubber system

## Participants

Hee Jun Park, Samsung Heavy Industries

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## Q&A Panel: Meet the Regulators

13:40 - 14:20  
Stream 2: Ballast Water & Waste Management

Take this opportunity to put your questions to the bodies responsible for enforcing ballast water management regulations.

## Participants

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## Case Study: Scrubbers in action

14:00 - 14:30  
Stream 1: Air Emissions

- Experience with the retrofit process
- Vessel operation following scrubber installation
- Predicted ROI and potential for hybrid conversion

## Participants

Tim Reeve, Senior Project Manager, Maersk Line

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## Case Study: Overcoming common issues with BWTS retrofits

14:20 - 14:40  
Stream 2: Ballast Water & Waste Management

- Factors to be aware of when planning a retrofit project
- Challenges in treatment system installation
- Experience with BWTS operation

## Participants

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## Case Study: Application of membrane technology for scrubbers on a RoRo Vessel

14:30 - 14:50  
Stream 1: Air Emissions

- Details of membrane technology
- Installation and commissioning on a RoRo vessel
- Data on exhaust emission and scrubber effluent

### Participants

Thomas Gehring, VP Product Development, Ionada

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## Shipboard waste: highlighting concerns under MARPOL

14:40 - 15:10  
Stream 2: Ballast Water & Waste Management

- What are the responsibilities of stakeholders under international regulations?
- How does implementation differ across locations?
- What are perceived to be the greatest challenges and costs associated with waste management?

### Participants

David Condino, Office of Facility Compliance, US Coast Guard

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## Afternoon Coffee and Networking Break

15:10 - 15:45  
Main agenda

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## Scrubbers Roundtable Discussions

15:40 - 16:20  
Stream 1: Air Emissions

### Participants

Laura Langh-Lagerlöf, Commercial Director, Langh Tech Oy Ab

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## Port Spotlight: Understanding the role of ports in a sustainable maritime supply chain

15:45 - 16:05  
Stream 2: Ballast Water & Waste Management

- How to include shipping and ports in a holistic solution
- Examination of sustainability initiatives in 80 major seaports
- Potential for increased use of virtual arrival schemes

### Participants

René Taudal Poulsen, Copenhagen Business School  
Henrik Sornn Friese, Associate Professor, Copenhagen Business School

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## How will the evolving business structures of cargo owners impact shipping?

16:05 - 16:50  
Stream 2: Ballast Water & Waste Management

- Cargo owner's adaptations in response to market demands
  - Current trends in cargo shipments
  - Implications for the shipping industry
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## Case Study: Operating Vessels to comply with Tier III regulations

16:20 - 16:40  
Stream 1: Air Emissions

Experience from a first IMO Tier III compliant marine low speed dual fuel engine operation in the Baltic Sea

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## Bending the Emission Curve: Sustainable Ship Design

16:40 - 17:30  
Stream 1: Air Emissions

- Application and improvement of current technology to reduce ship emissions
- New approaches to 'bending' the emission curve
- Considerations as to how the Green Ship of the Future should be designed

### Participants

Moderator: Tristan Smith, UCL

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## Practical Experience Session

16:50 - 17:10  
Stream 2: Ballast Water & Waste Management

### Participants

Nicos Constantinou, Strategic Accounts Manager, Ecochlor

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## Networking Drinks Reception

17:30 - 19:30  
Main agenda

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## GST & Shipping2030 Awards & Gala Dinner

20:00 - 23:00  
Main agenda

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# SCHEDULE

DAY 1 - 22/03/2017

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TIME	MAIN AGENDA	STREAM 1: AIR EMISSIONS	STREAM 2: BALLAST WATER & WASTE MANAGEMENT
08:00	08:15 - Registration		
09:00	09:00 - Chairman's Introduction 09:05 - Keynote Address: Results from MEPC70 09:30 - Preparing for 2020; are we ready for the global sulphur cap?		
10:00	10:05 - Implementation of the EU MRV: finalising the details 10:30 - Morning Coffee and Networking Break		
11:00		11:15 - Chairman's Introduction 11:20 - How can we accelerate the use of LNG as ship's fuel?	11:15 - Chairman's Introduction 11:20 - Ballast Water Convention Ratification; what's next for the industry?
12:00	12:20 - Networking Lunch	12:00 - Retrofit guidance: is your vessel ready for LNG and alternative fuels?	12:00 - Revisions of the Guidelines (G8): what impact has MEPC70 had?
13:00		13:40 - Developing a simultaneous NOx and SOx abatement system	13:40 - Q&A Panel: Meet the Regulators
14:00		14:00 - Case Study: Scrubbers in action 14:30 - Case Study: Application of membrane technology for scrubbers on a RoRo Vessel	14:20 - Case Study: Overcoming common issues with BWTS retrofits 14:40 - Shipboard waste: highlighting concerns under MARPOL
15:00	15:10 - Afternoon Coffee and Networking Break	15:40 - Scrubbers Roundtable Discussions	15:45 - Port Spotlight: Understanding the role of ports in a sustainable maritime supply chain
16:00		16:20 - Case Study: Operating Vessels to comply with Tier III regulations 16:40 - Bending the Emission Curve: Sustainable Ship Design	16:05 - How will the evolving business structures of cargo owners impact shipping? 16:50 - Practical Experience Session
17:00	17:30 - Networking Drinks Reception		
18:00			
19:00			
20:00	20:00 - GST & Shipping2030 Awards & Gala Dinner		

# SESSIONS

DAY 2 - 23/03/2017

Green Ship Technology Europe

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## Chairman's Opening and Day 1 Feedback

09:15 - 09:25

Stream 1: Innovation in Green Ship Design and Marine Engineering

### Participants

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## Chairman's Opening and Day 1 Feedback

09:15 - 09:25

Stream 2: Hull Coatings & Bio-fouling Management

### Participants

Jon Stewart, President, International Maritime Technology Consultants

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## Brainstorming session: What will the post 2020 ship look like?

09:25 - 10:10

Stream 1: Innovation in Green Ship Design and Marine Engineering

In this interactive session we will look at how we design and build vessels that will meet requirements from 2020. What will be the major adaptations and what new technologies will be included as standard?

### Participants

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## How will the Hull and Propeller Performance standard ISO 19030 operate in practice?

09:25 - 10:00

Stream 2: Hull Coatings & Bio-fouling Management

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## Case Study: Grimaldi Group's experiences of achieving carbon credits using hull coatings

09:50 - 10:20

Stream 2: Hull Coatings & Bio-fouling Management

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## Case study: Design for operation of hybrid technology

10:00 - 10:20

Stream 1: Innovation in Green Ship Design and Marine Engineering

- Developing a green double ended ferry from initial concept to delivery
- Technical, operational and commercial rationale between the design to adopt diesel electric battery hybrid technology

### Participants

David Wing, Senior Naval Architect, Houlder

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## Practical experience with the application of green technology

10:20 - 10:50

Stream 1: Innovation in Green Ship Design and Marine Engineering

- Air Lubrication
- Flettner Rotors

### Participants

Noah Silberschmidt, CEO, Silverstream

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## Controlling and Managing Ships' Biofouling

10:20 - 10:50

Stream 2: Hull Coatings & Bio-fouling Management

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## Morning Coffee and Networking Break

10:50 - 11:35

Main agenda

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## Chair's Introduction

11:35 - 11:40

Breakout 1: Pushing the Green Agenda

### Participants

Anne Katrine Bjerregaard, Head of Secretariat, Green Ship of the Future

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## Chair's Introduction

11:35 - 11:40

Breakout 2: Data Management & Vessel Tracking

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## Chair's Introduction

11:35 - 11:40

Breakout 3: Future of Smart & Green Ports

### Participants

Sue Terpilowski OBE, Chairman of Ports Maritime and Waterways Forum, Chartered Institute of Transport

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## Overcoming financial barriers; ensuring full integration of tech in shipping

11:40 - 11:55

Breakout 1: Pushing the Green Agenda

- Communicating new technology and solutions to financiers and the marketplace with a Rotor Sail Case Study
- Measurements, analytics and third party verification
- Financing and leasing solutions

### Participants

Tuomas Riski, CEO, Norsepower

Pekka Pakkanen, Product Manager, NAPA

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## Standardisation of vessel performance data

11:40 - 11:55

Breakout 2: Data Management & Vessel Tracking

- Why is it necessary to standardise performance data?
- In what ways do the performance systems on the market differ?
- In what ways will performance data be utilised in the future?

### Participants

Jakob Buus Petersen, Director & Co-founder, VP Solutions

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## The Move to 'Smart' Ports

11:40 - 11:55

Breakout 3: Future of Smart & Green Ports

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## The Green Coastal Shipping Programme: A new way to accelerate the green shift in shipping

11:55 - 12:10

Breakout 1: Pushing the Green Agenda

- Joint programme between government and industry to revolutionise the way coast shipping operates
- Current and future pilots and activities
- Status and further plans of the programme
- Financing issues

### Participants

Narve Mjøs, Program Director, DNV GL

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## Approaches to fuel data collection; are you using remote monitoring effectively?

11:55 - 12:10

Breakout 2: Data Management & Vessel Tracking

- Technologies used for fuel data collection
  - Approaches to record keeping
  - Potential applications for data collected
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## How Will Digitisation Change Port Operations?

11:55 - 12:10

Breakout 3: Future of Smart & Green Ports

### Participants

Sue Terpilowski OBE, Chairman of Ports Maritime and Waterways Forum, Chartered Institute of Transport

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# SESSIONS

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## Looking to the future of battery Powered Vessels

12:10 - 12:25

Breakout 1: Pushing the Green Agenda

- How can energy efficiency onboard be improved with battery/stored powers?
- Is battery power a realistic option for primary power source?
- What is the realistic ROI for battery power?

### Participants

Hans Thornell, Chairman, Echandia Marine

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## Case Study: Switching to the new ISO 14001:2015 Environmental Management System

12:10 - 12:25

Breakout 2: Data Management & Vessel Tracking

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## Introducing Electric Bunkering Infrastructure: The ELEMED Project

12:10 - 12:25

Breakout 3: Future of Smart & Green Ports

- Establishing cold ironing and electric bunkering infrastructure in the eastern mediterranean Corridor
- Carrying out studies in Port of Limassol, Port of Piraeus, Port of Kyllini and Port of Koper
- Formulating a solid framework for regulation, safety and training processes

### Participants

Panayiotis Mitrou, Technology and Innovation, Manager, Marine & Offshore, Business Development, Hellenic Lloyd's

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## Case Study

12:25 - 12:40

Breakout 1: Pushing the Green Agenda

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## Case Study

12:25 - 12:40

Breakout 2: Data Management & Vessel Tracking

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## Case Study

12:25 - 12:40

Breakout 3: Future of Smart & Green Ports

### Participants

Bogdan Oldakowski, Secretary General, Balitc Ports Organization

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## Q&A Panel

12:40 - 13:10

Breakout 1: Pushing the Green Agenda

The presenters from each of the sessions will come together for a final question and answer session

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## Networking Lunch

13:10 - 14:20

Main agenda

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## Optimising Fleet Operations: The Vessel Performance Decision Support Project

14:20 - 15:20

Main agenda

In this session we will hear about the development of this modular based performance management system, sponsored by Innovation Fund Denmark, from the perspective of the 5 partners involved. topics will include:

- System application to optimise technical and operational performance of fleets
- Software development and available functionality
- Change management through KPI processes
- Ideas for continuation and results obtained thus far

### Participants

Sverre Patursson Vange, Head of Performance Management, Lauritzen Kosan, J. Lauritzen A/S

Niels Hvid, Performance Manager, TORM A/S

Dr Niels Gorm Malý Rytter, Associate Professor, Ph.D. - Operations & Service Management, Department of Mechanical and Manufacturing Engineering, Aalborg University

Søren Hattel, Team Leader, Hydro and Aerodynamics, FORCE Technology

Moderator: Jakob Buus Petersen, Director & Co-founder, VP Solutions

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## Afternoon Coffee and Networking Break

15:20 - 15:50

Main agenda

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## Financial and economic incentives for green shipping: how do they work, are they effective?

15:50 - 16:10

Main agenda

- In what ways are we incentivising implementation of green tech?
- What examples of green incentives can be seen in other industries?
- What financing options can we still explore?

### Participants

Anna Larsson, Global Head of Sustainability, Vice President, Wallenius Wilhelmsen Logistics and Chair, Trident Alliance

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## Navigating decarbonisation: setting the roadmap for managing shipping's 'fair share' of global emissions reduction

16:10 - 16:50

Main agenda

- What are the different pathways ahead for the industry and what might they mean?
- Setting a baseline for emissions reduction targets
- How do we design/build vessels for a net zero emissions future?

### Participants

Tristan Smith, UCL

Ian Petty, Sustainable Shipping Initiative

Maurice Meehan, EMEA, Transport and Logistics Lead, BSR

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## Chairman's Remarks & Close of Conference

16:30 - 16:40

Main agenda

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# SCHEDULE

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TIME	MAIN AGENDA	BREAKOUT 1: PUSHING THE GREEN AGENDA	BREAKOUT 2: DATA MANAGEMENT & VESSEL TRACKING	BREAKOUT 3: FUTURE OF SMART & GREEN PORTS	STREAM 1: INNOVATION IN GREEN SHIP DESIGN AND MARINE ENGINEERING	STREAM 2: HULL COATINGS & BIO-FOULING MANAGEMENT
09:00					<p>09:15 - Chairman's Opening and Day 1 Feedback</p> <p>09:25 - Brainstorming session: What will the post 2020 ship look like?</p>	<p>09:15 - Chairman's Opening and Day 1 Feedback</p> <p>09:25 - How will the Hull and Propeller Performance standard ISO 19030 operate in practice?</p> <p>09:50 - Case Study: Grimaldi Group's experiences of achieving carbon credits using hull coatings</p>
10:00	10:50 - Morning Coffee and Networking Break				<p>10:00 - Case study: Design for operation of hybrid technology</p> <p>10:20 - Practical experience with the application of green technology</p>	10:20 - Controlling and Managing Ships' Biofouling
11:00		<p>11:35 - Chair's Introduction</p> <p>11:40 - Overcoming financial barriers; ensuring full integration of tech in shipping</p> <p>11:55 - The Green Coastal Shipping Programme: A new way to accelerate the green shift in shipping</p>	<p>11:35 - Chair's Introduction</p> <p>11:40 - Standardisation of vessel performance data</p> <p>11:55 - Approaches to fuel data collection; are you using remote monitoring effectively?</p>	<p>11:35 - Chair's Introduction</p> <p>11:40 - The Move to 'Smart' Ports</p> <p>11:55 - How Will Digitisation Change Port Operations?</p>		



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12:00		<p>12:10 - Looking to the future of battery Powered Vessels</p> <p>12:25 - Case Study</p> <p>12:40 - Q&amp;A Panel</p>	<p>12:10 - Case Study: Switching to the new ISO 14001:2015 Environmental Management System</p> <p>12:25 - Case Study</p> <p>12:40 - Q&amp;A Panel</p>	<p>12:10 - Introducing Electric Bunkering Infrastructure: The ELEMED Project</p> <p>12:25 - Case Study</p> <p>12:40 - Q&amp;A Panel</p>		
13:00	13:10 - Networking Lunch					
14:00	14:20 - Optimising Fleet Operations: The Vessel Performance Decision Support Project					
15:00	<p>15:20 - Afternoon Coffee and Networking Break</p> <p>15:50 - Financial and economic incentives for green shipping: how do they work, are they effective?</p>					
16:00	<p>16:10 - Navigating decarbonisation: setting the roadmap for managing shipping's 'fair share' of global emissions reduction</p> <p>16:30 - Chairman's Remarks &amp; Close of Conference</p>					

# SESSIONS

## MONITORING & DATA MANAGEMENT WORKSHOP - 24/03/2017

Green Ship Technology Europe

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### Chairman's Opening Remarks

09:30 - 09:35  
Main agenda

### Participants

Jakob Buus Petersen, Director & Co-founder, VP Solutions

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### Discussion Forum

09:35 - 09:55  
Main agenda

- What are our key concerns when it comes to performance monitoring?
  - In what ways are we already utilising performance data?
  - Where are the gaps in our understanding of data management?
- 

### Automatically logged or manually collected data, which is more useful in vessel performance analysis?

09:55 - 10:25  
Main agenda

- Comparison of automatic or manual data collection
- Application in hull performance analysis
- Efficacy in speed-power predictions

### Participants

Ditte Gundermann, Propulsion Dynamics

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### Shipowner Case Study: Monitoring and analysis to improve vessel performance

10:25 - 10:55  
Main agenda

A look at the performance systems implemented at Kristian Gerhard Jebsen Skipsrederi. Including:

- Hull and fouling
- Engines
- Method and purpose

### Participants

Øyvind Monsen, Superintendent/Fleet Performance Analyst, Technology Support Department, Kristian Gerhard Jebsen Skipsrederi AS

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### Coffee & Networking Break

10:55 - 11:15  
Main agenda

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### From sensor data to KPIs: the importance of propulsion performance monitoring and energy management

11:15 - 11:35  
Main agenda

- Full scale measurement of propeller thrust
- Comparison to fuel savings and emission reductions
- Translating all propulsion data to measurable KPIs

### Participants

Erik van Ballegooijen, Technical Consultant Hydrodynamics, R&D Team Coordinator, VAF Instruments

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### Full scale data handling in shipping: a big data solution

11:35 - 12:05  
Main agenda

- Understanding application of big data
- Handling full scale data in ships
- Developing a marine engine centred data flow path

### Participants

Lokukaluge Prasad Perera, Research Scientist, Norwegian Marine Technology Research Institute (MARINTEK), Maritime Energy Systems

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### Alternative approaches to monitoring: utilising a 'Digital Twin'

12:05 - 12:45  
Main agenda

- Implementing a novel vessel performance model
- Application under anonymous wind, wave, draft and trim conditions
- Use in weather routing and other operational simulations

### Participants

Ando Hideyuki, Senior General Manager, Monohakobi Technology Institute, NYK Line

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### Lunch

12:45 - 13:45  
Main agenda

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### Easing reporting requirements with EU/IMO MRVs

13:45 - 14:25  
Main agenda

- Expectations for reporting requirements under EU and IMO
- Preparing for data collection, what is required?
- Benefits of implementing a performance monitoring system

### Participants

Christian Suhr, Managing Director, Ahrenkiel Shipmanagement

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### Case Study: DFDS' preparation of a monitoring plan

14:25 - 15:05  
Main agenda

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### Coffee & Networking Break

15:05 - 15:25  
Main agenda

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### Working Group – Preparing for EU MRV

15:25 - 16:25  
Main agenda

- Factors to consider when generating a monitoring plan
- Overview of the Commissions Monitoring Template
- Insight from the European Sustainable Shipping Forum (ESSF)

### Participants

Julien Dufour, CEO, Verifavia

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### Chairman's Final Comments and Close of Workshop

16:25 - 16:35  
Main agenda

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10:00	10:25 - Shipowner Case Study: Monitoring and analysis to improve vessel performance 10:55 - Coffee & Networking Break
11:00	11:15 - From sensor data to KPIs: the importance of propulsion performance monitoring and energy management 11:35 - Full scale data handling in shipping: a big data solution
12:00	12:05 - Alternative approaches to monitoring: utilising a 'Digital Twin' 12:45 - Lunch
13:00	13:45 - Easing reporting requirements with EU/IMO MRVs
14:00	14:25 - Case Study: DFDS' preparation of a monitoring plan
15:00	15:05 - Coffee & Networking Break 15:25 - Working Group – Preparing for EU MRV
16:00	16:25 - Chairman's Final Comments and Close of Workshop