Monday, March 6, 2017

In this special pre-summit briefing, gain insights into a wide variety of ballast water treatment types, technologies and testing methodologies, presented by leaders in the area.

8:00 – 9:00  Registration & Networking Breakfast

9:00 – 9:05  Welcome and Introduction by the Briefing Chair

Kevin J. Reynolds, PE, Principal, Marine Engineering, Glosten

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<th>Type Approval, Testing and Retrofits</th>
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9:05 – 10:00  Panel:

Effective Ballast Water Sampling & Monitoring
- Getting compliant samples
- Proving compliance
- Sampling for approval testing vs. compliance monitoring
- Requirements for monitoring

Moderator:
Don Stephen, Vice President, Product Management, De Nora Water Technology

Panelists:
Regis Burkhardt, Technical Director, US Fleet, International Shipholding Corporation
Pam Mayerfeld, Vice President of Marketing & Sales, Turner Designs
Marcie Merksamer, Vice President, EnviroManagement, Inc.
Lothar Schillak, PhD, Managing Director, TRITON MARINE SCIENCE & CONSULT
10:00 – 10:30 **Networking Break**

10:30 – 11:15 **Presentation:**

**Rapid Compliance Monitoring Using Indicative Tools**

There is an ongoing question as to how ships will show they are in compliance when they pull into ports as well as how port state control might check this. Several instrument manufacturers have developed Rapid Compliance tools which make indicative measurements based on long-established scientific methods. The question is – what is being done to show these indicative measurements are truly a good indication of compliance with the ballast water regulations. This presentation discusses the types of data presented by indicative tools, an overview of the various instruments being developed, and then most importantly, what organizations are validating compliance monitoring and what is the current status/data of their validations.

**Presenter:**

Pam Mayerfeld, Vice President of Marketing & Sales, Turner Designs

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### BWM Technology Series

11:15 – 11:45 **Technology Presentation 1:**

**The Emperor Has No Clothes: USCG Type Approval Certification Testing**

**Presenter:**

Mario N. Tamburri, Ph.D., Director, Maritime Environmental Resource Center, University of Maryland

11:45 – 12:15 **Technology Presentation 2:**

**In Service Experience of an Electrochlorination Ballast Water Management System**

**Presenter:**

Don Stephen, Vice President, Product Management, De Nora Water Technology

12:15 – 1:45 **Group Luncheon**

1:45 – 2:15 **Technology Presentation 3:**

**New Developments in Onboard Ballast Water Testing**

**Presenter:**

Lothar Schillak, PhD, Managing Director, TRITON Marine Science & Consult
2:15 – 2:45  
*Technology Presentation 4:*
Dynamic Filtration and Sediment Disposal

*Presenter:*
Wilmot McCutchen, CTO, Vorsana

2:45 – 3:15  
*Networking Break*

3:15 – 3:45  
*Technology Presentation 5:*
The specific characteristics, features and potential pitfalls of UV Ballast Water Treatment

The treatment of ballast water is utilized with various treatment technologies. The use of Ultraviolet Disinfection is the most common treatment method used today. Compared with other technologies there are however, a number of specific features and potential pitfalls to be taken into consideration by designers, test facilities and ship owners. The presentation will provide an independent view on the specific characteristics of the UV technology.

*Presenter:*
Erik Köster, Director, Maritime Business, HYTECON GmbH

3:45 – 4:15  
*Technology Presentation 6:*
The Learning Curve and the Continuing Education of One’s Ballast Water Treatment System

Discussion of not only the first generation of ship owners and operators who conduct the selection and installation of a system but the many number of future individuals who will have to continue to learn, operate, and troubleshoot the systems and the many options of learning tools currently and future offered.

*Presenter:*
Ernie Chang, Director of Sales & Marketing, C&C Panasia Inc.

4:15  
*Pre-Summit Briefing Adjourns*