

DRAFT Detailed Schedule

R&D Forum, 26-29 January 2009, Malmö, Sweden

Tuesday 26/1-2010

Venue: World Maritime University, CPS Hall

09.00-10.00 Pre-Registration and refreshments

10.00-12.00 Pre-conference workshop on providing equivalency between IMO Guidelines G8/G9 approved treatment systems and alternative management options

12.00-13.15 Lunch

13.15-15.00 Pre-conference workshop (contd.)

Wednesday 27/1-2010

Venue: St Gertruds Restaurant and Conference Centre

09.00-10.00 Registration and Refreshments

10.00 **Welcome address:** Dr Björn Kjerfve,
President, World Maritime University

10.15 **Welcome remark** Dr Jose Matheickal,
GloBallast Partnerships, IMO

10.30 **Keynote address** **“Ballast Water Management – an
overview of the regulatory process”**
Mr. Dandu Pughuic, Head, Biosafety
Section, IMO

11.00 **Keynote address** **"BWM hurdles and the need for
innovative approaches: An industry
perspective"**
Captain Tey Yoh Huat,
Chairman of the IMO-GloBallast
Global Industry Alliance Task Force,
Vice President, APL CO. Pte. Ltd.

11.30 **Keynote address** **“Ballast Water Treatment Systems;
“old” and “new” ones”**
Dr. Marcel Veldhuis, Senior Scientist,
Royal Netherlands Institute for Sea
Research

12.00 **Panel discussion** Chair: Mr. Andrew Hudson, Principal
Technical Adviser, UNDP,
International Waters and Cluster,
Water Governance Programme

12.45 **Lunch; Served at St. Gertruds Restaurant**

Session 1: Emerging Ballast Water Management Concepts

1A; Technical Aspects

- 14.00** **Keynote address: “The Variable Buoyancy Ship: a Road to the Elimination of Ballast”**
Professor Michael Parsons, University of Michigan
- 14.30** **Ballast water replaced with fresh water -Why not?**
Captain Valter Suban, Professor Matel David, Professor Peter Vidmar,
and Marko Perkovič
Faculty of Maritime Studies and Transportation, Slovenia
- 14.50** **A study of ballast water treatment applied on iron ore ports in Brazil using discrete simulation**
Newton Narciso Pereira, Hernani Luiz Brinati, Rui Carlos Botter
University of São Paulo, Department of Naval Architecture and Oceanic
Engineering, Brazil
- 15.10** **Poster Session 1 and refreshments**

Session 1: Emerging Ballast Water Management Concepts (contd.)

1B; Regulatory Aspects

- 16.10** **Keynote address: “Ballast water technology availability – an update”**
Captain Graham Greensmith,
Lead Specialist, External Affairs, Lloyd’s Register
- 16.40** **Ballast water treatment ashore brings more benefits**
Patrick Donner, Associate Academic Dean, World Maritime University,
Malmö, Sweden
- 17.00** **Alternative ballast water management options for Caspian region shipping: Outcomes of a recent CEP / IMO / UNOPS Study**
R. W. Hilliard and J. Matheickal
InterMarine Consulting Pty Ltd, Australia and International Maritime
Organization, UK
- 17.20** End of day 1
- 19.30** **Conference Dinner, hosted by the City of Malmö.**
Venue: Malmö Town Hall, Stortorget, Malmö

Thursday 28/1-2010

Venue: St Gertruds Restaurant and Conference Centre

Session 2: Progress on conventional Ballast Water treatment systems

09.00 Keynote address: Title TBA

Mr. Iver Iversen, Business Development Director, Wilhelmsen Ships Equipment AS

09.30 Microwaves + Ultraviolet + Ozone Ballast Water Treatment

Dr Alex Taube, R&D Director, Technical Solutions and Innovations P/L, Australia

09.50 Thermal Aqua-Filtration (TAF) system: A new concept of environment-friendly BWMS applying “retrieved heat” to eliminate the living organisms

Kazuhiko Koike (Hiroshima University), Nobuhiko Fujiki (Taiko Sangyo Co., Ltd.), Kenji Yamane (National Maritime Research Institute, Osaka), Yoshiyuki Inohara, Izuo Aya (Taiko Sangyo Co., Ltd.)

10.10 Development of Novel VUV photocatalysis system for ballast water Treatment

Yansheng Yin, Lihua Dong, Li Zhang, Chunhua Fan, Tao Liu, and Yunlian Xu, Baojia Xiao, Institute of Marine Materials Science and Engineering, Shanghai Maritime University and Shanghai Haida Assets Management Co.Ltd

10.30 Poster Session 2 and refreshments

11.50 Beyond-Ballast: Integrating shipboard environmental technologies: Ozone as a single-source system for treating multiple waste streams including ballast

Sung-Jin Park, Jung-In Bin, Ki-Wook Kim, Seung-Je Yoon NK Co. Ltd Busan, Republic of Korea

12.10 Applicability of approved ballast water management systems that make use of active substance of preparations under the Ballast Water Regulations in Victoria, Australia

Dr Marlos De Souza, Program Leader - Ballast Water & MARPOL 73/78 Environmental Strategies Unit, EPA Victoria, Australia

12.30 Lunch; Served at St Gertruds Restaurant

Session 3: Testing, Verification and Monitoring of Ballast Water

- 13.30 Keynote address: “A summary of findings from the first 35 ballast water treatment evaluations – are we on the right track?”**
Dr. Tim Bowmer, Chairman, GESAMP
- 14.00 Validation protocols for performance testing and scaling ballast water treatment systems employing UV disinfection and filtration**
Jim Cosman, Manager, Regulatory Affairs TROJAN UV
- 14.20 Ballast water treatment testing and discharge toxicity**
Dr. Mario N. Tamburri, Alliance for Coastal Technologies, Maritime Environmental Resource Center, Chesapeake Biological Laboratory, University of Maryland Centre for Environmental Science, USA
- 14.40 A novel approach to determine ballast water vitality and viability after treatment**
Peter Paul Stehouwer, Frank Fuhr and Marcel Veldhuis, Royal Netherlands Institute for Sea Research, Netherlands
- 15.00 New data experiments using viability stains on treated ballast water for IMO compliance monitoring”**
Kent A. Peterson, Chief Executive Officer, Fluid Imaging Technologies, Inc., USA
- 15.20 Poster Session 3 and refreshments**
- 16.00 How to take a representative ballast water sample?**
Dr. Stephan Gollasch (GoConsult) and Matej David, University of Ljubljana, Faculty of Maritime Studies and Transport
- 16.20 Factors influencing organism counts in ballast water samples and their implications**
Frank Fuhr, Jan Finke, Peter Paul Stehouwer, Swier Oosterhuis & Marcel Veldhuis, Royal Netherlands Institute for Sea Research, Netherlands
- 16.40 Monitoring of bacteria in ballast water**
Ingun Tryland, Research Scientist, Environmental Technology, Norwegian Institute for Water Research (NIVA)
- 17.00 The use of mesocosms in risk assessment of active substances in ballast water treatment**
Klaas Kaag, Wageningen Imares Afdeling Milieu, Netherlands
- 17.20** End of day 2
- 17.30 Bus to World Maritime University**
- 17.45 Reception hosted by World Maritime University
Citadellsvägen 29, Malmö**
- 19.30 Bus back to city centre (Radisson BLU)**

Friday 29/1-2010

Venue: St Gertruds Restaurant and Conference Centre

- 09.00** **Report from the pre-conference workshop**
R. W. Hilliard, Lead Consultant for the GloBallast-GIA Study on
Emerging Alternative Ballast Water management Systems
- 10.00** **Refreshment break**
- 10.30** **Plenary Session**
Panel Discussion on Ballast Water Management: What have we learned
and way forward.
Panel Members to be Announced
- Conference Conclusions and Recommendations
- Moderator: Dr Jose Matheickal, GloBallast Partnerships, IMO
- 12:00** Closing Ceremony