

## 13 April 2016

Chair: Soyland, Oftedahl

08:40h Geir Axel Oftedahl (Jotun), Svend Soyland (Nordic Energy Research)  
*ISO 19030 – Why the Standard Is Needed, What It Covers and How It Has Been Developed*

09:05h Geir Axel Oftedahl (Jotun)  
*Advances in Measurements of Hull and Propeller Performance: Implications for Buyers and Sellers of Performance Enhancing Technologies and Solutions*

09:30h Antti Solonen (Eniram)  
*Experiences with ISO-19030 and Beyond*

09:55h Tristan Smith (UCL)  
*The Count of Monte Carlo - Uncertainty in Performance Monitoring*

### 10:20h coffee break

Chair: Bertram, Kariranta

10:50h Geoff Swain (Florida Inst. of Technology), Geir Lund (Royal Caribbean)  
*Dry Dock Inspection Protocol*

11:15h Helge Bartels (E.R. Schiffahrt)  
*Performance Monitoring & Hull Performance: A Ship Manager's View*

11:40h Fumi Yakabe (JSTRA)  
*Observational Study on Powers Estimated by Shaft Torque and Fuel Consumption*

12:05h Ryo Kakuta, Hideyuki Ando (MTI), Takashi Yonezawa (NYK)  
*Utilization of Vessel Performance Management System in Shipping Company*

### 12:30h lunch

*Tagliata di Manzo rucola e grana (strips of fillet of beef and rocket)  
Semifreddo agli amaretti e coulis al cacao (macaroon parfait)*

Chair: Bos, Hagestuen

14:00h Robert Hilliard (Intermarine Consulting)  
*A Big-Data Concept to Identify Impact of Hull Coating Types on Hull Performance*

14:25h Elizabeth Haslbeck, et. al. (NSWC-CD)  
*Propeller Roughness Condition and its Impact on Vessel Fuel Efficiency*

14:50h Lars Greitsch, Thomas Goedicke (MMG)  
*Numerical Towing Tank Approach versus Noon Data – Powering Predictions using RANSE CFD*

15:15h Kenichi Fukuda, Yoshihisa Okada, Kenta Katayama, Akinori Okazaki (Nakashima Propeller)  
*An Advanced CFD Analysis Model for Propulsion Systems*

### 15:40h coffee break

Advisory committee: Next HullPIC

Rest: free time

## 14 April 2016

Chair: vom Baur, Kidd

08:40h Andreas Krapp (Jotun), Volker Bertram (DNV GL)  
*Splitting Hull and Propeller Performance – Theory and Practice*

09:05h Daniel Kane (Propulsion Dynamics Inc.)  
*Isolating Fuel Penalties between Hull Resistance and Propeller Friction and Experience with Ships in Operation*

09:30h Erik van Ballegooijen, Tiberiu Muntean (VAF)  
*Fuel Saving Potentials via Measuring Propeller Thrust and Hull Resistance at Full Scale: Experience with Ships in Service*

09:55h Jan Wienke (DNV GL)  
*Energy Efficiency Design Index in View of Performance Monitoring*

### 10:20h coffee break

Chair: Yakabe, Haslbeck

10:50h Ari Vésteinsson (Marorka)  
*Continuous Estimate of Hull and Propeller Performance Using Auto-Logged Data*

11:15h Michael vom Baur (Hoppe Marine)  
*Acquisition and Integration of Meaningful Performance Data on Board – Headaches and Highlights*

11:40h Andreas Krapp (Jotun), Volker Bertram (DNV GL), Björn Walther (NRS)  
*Insight from a JIP on Hull Performance Monitoring for Containerships*

12:05h Giovanni Cusano, Stefano Qualich, et al. (Cetena)  
*Monitoring, Reporting, Verifying and Optimizing Ship Propulsive Performances: A Support System to Ship Management Focused on Energy Efficiency*

### 12:30h lunch

*Risotto with truffle cream and grana shavings  
Piedmont parfait on Passito wine sauce and nuts from Chivasso*

Chair: Yakabe, Haslbeck

14:00h Alessandro Carchen (Univ. Newcastle)  
*Accuracy of Doppler Logs and Electro-Magnetic Logs in Different Boundary Conditions*

14:25h Dinis Oliveira, Lena Granhag (Chalmers TU)  
*Future Work on Drag and Boundary Layer Properties of Biofouling Collected From Commercial Vessels*

14:50h Barry Kidd, Haoliang Chen (Akzonobel)  
*Predicting the Impact of Fouling Control Coatings on Ship Efficiency*

15:15h Marco Bibuli (ISSIA)  
*Cooperative Robotics – Technology for Future Underwater Cleaning*

15:40h coffee break

16:10h small group work: ISO work; Joint Research preparation

## 15 April 2016

**Chair: Tullberg, Kane**

08:40h Andrea Orlandi et al. (LaMMA), Andrea Coraddu (Damen Shipyards)  
*Evaluation of the Fuel Saving Potential using High Resolution MetOcean Forecasts and Detailed Ship Performance Models*

09:05h Volker Bertram (DNV GL)  
*Added Power in Waves – Time to Stop Lying (to Ourselves)*

09:30h Eva Herradón de Grado (Siport21), Volker Bertram (DNV GL)  
*Predicting Added Resistance in Wind and Waves Employing Artificial Neural Nets*

09:55h Mark Bos (BMT Smart)  
*How MetOcean Data Can Improve Accuracy and Reliability of Vessel Performance Estimates*

**10:20h coffee break**

**Chair: Solonen, Vesteinsson**

10:50h Thilo Dückert (DNV GL)  
*Computing Hull & Propeller Performance: Ship Model Alternatives and Data Acquisition Methods*

11:15h Tsuyoshi Ishiguro (Japan Marine United Corporation)  
*Verification of Full-Scale Vessel's Performance under Actual Sea by On-Board Monitoring System: A Shipbuilder's View*

11:40h Falko Fritz (Skysails)  
*Practical Experiences with Vessel Performance Management and Hull Condition Monitoring*

12:05h Erik Hagestuen (Kyma)  
*Continuous Performance Monitoring – A Practical Approach to the ISO 19030 Standard*

**12:30h lunch**

*Nebbiolo wine risotto with red chicory, raisins and foie gras sauce  
Hazelnut parfait*

**Chair: Krapp, Dückert**

14:00h Michael Haranen, et al.(Napa)  
*White, Grey and Black Box Modelling in Ship Performance Evaluation and Prediction*

14:25h Wojciech Gorski (Enamor)  
*Role of Reference Model in Ship Performance Management*

14:50h Charles Badoe, Alexander Phillips, Stephen Turnock (Univ. Southampton)  
*Importance of Hull-Propeller-Rudder Interaction for Ship Powering Assessment*

15:15h Michel Visonneau, et al. (Ecole Centrale de Nantes)  
*High-Fidelity Computational Analysis of an Energy Saving Device at Model and Full Scale*

15:40h coffee break

**19:00h Dinner (medieval banquet)** sponsored by Jotun

Dress code: casual

*Buffet: Holiday bread, onion cake, orange flavoured vegetable rolls, Templar pie with cherry tomatoes and fresh cheese, chestnut canapés, honey & speck, bread & cabbage pie*

*Served at table: Cornmeal mush with sausage and black pepper, "Castle" ravioli with pork ragout, Wine cooked ox with cornbread croutons*

*Dessert buffet: Chocolate and pear cake, Parfaits, Nuts crepes and pear syrup, Castle pastry*