

## 6 May 2019 – Monday

### Session – It starts with (better) data acquisition

Chair: Nielsen (Insatech), Marioth (VAF)

08:55h Van Ballegooijen, Helsloot (VAF)

*An Approach to Monitor the Propeller Separately from the Hull*

09:20h Gonzalez (Kyma), Arango (Webstep)

*Techniques for the Automated Detection of Anomalies and for the Assessment of Quality in High-Frequency Data Collection Systems*

09:45h Montazeri, Petersen, Hansen (VP Solutions)

*Autolog Data Processing for Vessel Performance Application*

10:10h \*\*\*\*\* coffee break \*\*\*\*\*

### Session – Come together, Information

Chair: Kidd (Akzonobel), Hendricks (Hoppe)

10:40h Prytz, Gangeskar, Bertelsen (Miros)

*Distributing Real-Time Measurements of Waves, Currents & Speed Through Water from Ship to Shore*

11:05h Górski (Enamor)

*Information-Sharing Concept in Ship Performance Management Systems*

11:30h Bonello, Smith (UCL)

*Exploring the Effect of Vessel Performance Information Barriers on Decision-Making Practice: A Time Charter Application*

12:00h lunch

### Session – Listen to your Customers

Chair: Gonzalez (Kyma), Gangeskar (Miros)

13:30h Eliasson (Chevron Shipping)

*Discussion on Ecological Risks of BioFouling: Harmonizing and Vetting Related Approaches*

13:55h Ikonomakis, Dietz, Holst (Maersk), Galeazzi, Nielsen (DTU)

*Application of Sensor Fusion to Drive Vessel Performance*

14:20h \*\*\*\*\* coffee break \*\*\*\*\*

### Session – Listen to your paint suppliers

Chair: Silberschmidt (Silverstream), Hansen (VP Solutions)

14:50h Gundermann, McLaughlin (Hempel)

*When ISO19030 Fails: Utilizing Basic Machine Learning Methods for Performance Analysis without Reference Data*

15:15h Paereli, Levantis (Jotun)

*ISO 19030 2.0: How to Improve*

15:40h Chabaane, Austin, Isaksson, Weigenand, Ohlauson (I-Tech)

*Application of Biotechnology in Antifouling Solutions for Hard Fouling Prevention*

16:05h Announcement HullPIC 2020

## 7 May 2019 – Tuesday

### Session – Quantifying fuel savings

Chair: Petoumenos (PPG), Chabaane (I-Tech)

08:30h De Freitas, Silberschmidt, Pappas, Connelly (Silverstream)

*Full-Scale Performance Measurement and Analysis of the Silverstream Air Lubrication System*

08:55h Themelis, Spandonidis, Giordamli (Prisma Electronics)

*Evaluating the Efficiency of an Energy-Saving Device by Performance Monitoring*

09:20h Marquardt et al. (Hoppe Marine)

*Reducing the Resistance of Container Ships with a FLUME Roll Damping Tank*

09:45h Kluwe, Schrader, Bretschneider (HSVA)

*From Bow to Stern: Hydrodynamic Measures for Increased Hull Performance*

10:10h \*\*\*\*\* coffee break \*\*\*\*\*

### Session – Virtual flows, real insight

Chair: Pakkanen (Napa), Patey (Foreship)

10:40h Vargas, Shan, Holm (NSWC-CD)

*Using CFD to Predict Ship Resistance due to Biofouling and Plan Hull Maintenance*

11:05h Östman, Koushan, Savio (Sintef)

*Study on Additional Ship Resistance due to Roughness using CFD*

11:30h Gatin, Vukčević, Jasak (Wikki)

*Fully Automated CFD Analysis for Full-Scale Ship Hydrodynamics*

12:00h lunch

### Session – Insight from Asia

Chair: Schioler (C-leanship), Hayes (VTAS)

13:30h Wakabayashi, Inukai (JMUC), Yonezawa, Norihide (MTI), Mushiake, Kawanami (Furuno)

*Full-Scale Measurement of a Stern Flow Field using Multi-Layered Doppler Sonar*

13:55h Lim, Teo, Sia (Ascenz)

*A Digital Business Model for Vessel Performance Monitoring*

14:20h Cho, Lee (PNU), Jeon (POSSM), Lee (Lab021)

*Performance Review Based on Operating Data for 175k Bulk Carrier*

14:45h \*\*\*\*\* coffee break \*\*\*\*\*

### Session – Aye, aye, A.I.

Chair: Schmode (DNV GL), Niendorf (Veinland)

15:15h Jeon, Noh, Lee (PNU), Jeon (POSSM), Lee (Lab021)

*Real Ship Maritime Big Data Analysis for Prediction of Fuel Consumption*

15:40h Katsikas et al. (Metis)\*

*Artificial Intelligence (AI) and Cloud Technologies in the Service of Vessels' Hull and Propeller Performance Optimization*

16:05h Doran (HullWiper)

*A Short History of Hull Cleaning and Where We Go Now*

### 8 May 2019 – Wednesday

#### Session – Together we are strong

Chair: Gorski (Enamor), Sellwood (BMT Smart)

08:55h Schmode, Hympendahl (DNV GL), Bellusci (Scorpio),

*Influence of Data Sources for Hull Performance Prediction*

09:20h Stefanatos, Kauffeldt (DNV GL), Petoumenos (PPG)

*Case Study on Performance Improvement using Advanced Hull Performance Analysis Methodologies*

09:45h Ashida (MOL), Mizutani, Pakkanen, Väisänen, Manderbacka (NAPA)

*Performance Monitoring Insight at MOL*

10:10h \*\*\*\*\* coffee break \*\*\*\*\*

#### Session – Design & Operation

Chair: Doran (HullWiper), Østervold (ECOsubsea)

11:40h Patey (Foreship)

*Performance Monitoring Information Feedback to Design*

11:05h Sogihara (NMRI), Yonezawa (MTI), Ishiguro (JMUC), Sugimoto (MOL), Masuyama (KKK), Mieno (Chugoku), Shimada (Nippon Paint), Matsubara (Kansai Paint Marine)

*Introduction of OCTARVIA Project: Ship Performance in Actual Seas*

11:30h Park, Shin, Lee, Ki (KRISO)

*Application of an ISO15016:2015 based Method in Analysing Ship's Performance*

12:00h lunch

#### Session – Last not least

Chair: Gundermann (Hempel), Nicholls (StratumFive)

13:30h Murrant (NRC)

*Effects of Hull and Propeller Cleaning on Propulsion Efficiency of an Offshore Patrol Vessel*

13:55h Becchi (Cetena)

*ISO 19030: Onboard Monitoring System for Real-Time Performance Feedback, Prediction and Optimization*

14:20h Bertram (DNV GL)

*Some Fairy Tales in Performance Monitoring Revisited*

14:45h \*\*\*\*\* coffee break \*\*\*\*\*

#### Forum “Developers & Operators in Dialogue”

Moderator: Geir Axel Oftedahl

15:15h panellists from operators: Haslbeck, Dietz

panellists from developers: H. Nielsen, Schmode

16:30h Expected Closing

18:30h Conference Dinner sponsored by Jotun

in Taverna del Lupo

*Traditional Umbrian Appetizer*

*Bruschetta and Brustengo with ham*

*Pasta with asparagus & porcini mushroom*

*Veal with truffle and caciotta cheese sauce*

*Sautéed eggplant with parsley and garlic*

*Crepe with vanilla ice cream & warm wild fruits*

*Coffee*

\* Paper not in Proceedings due to late submission