



# 8<sup>TH</sup> DYNAMIC POSITIONING ASIA CONFERENCE & EXHIBITION



27 - 29 JUNE 2018  
M HOTEL, SINGAPORE

## SUPPORTING ORGANISATIONS:



Opportunity runs deep™



## WORKSHOP & CONFERENCE PROGRAMME 2018

The **Dynamic Positioning Asia 2018**, for the 8<sup>th</sup> year running, will bring together DP experts, new technologies, a supporting exhibition and networking opportunities for the region's DP sector.



Partnered with the Marine Technology Society Dynamic Positioning Committee, DP Asia in 2018 will be a three-day event and will incorporate MTS DP Workshops planned and executed by industry technical and operational experts from the MTS DP Committee. A full day optional workshop will take place on Day 1 and the other workshops will be incorporated into Day 2 and Day 3 of the conference.

**Location: M Hotel, 81 Anson Rd, Singapore 079908**

**DAY 1** – Wednesday, 27<sup>th</sup> June 2018 – DP ASIA CONFERENCE & MTS DP WORKSHOP

**DAY 2** – Thursday, 28<sup>th</sup> June 2018 – DP ASIA CONFERENCE & MTS DP WORKSHOP

**DAY 3** – Friday, 29<sup>th</sup> June 2018 – MTS DP WORKSHOPS

Dynamic positioning technology is constantly evolving through innovations and improvements. Rules and guidelines for all aspects of DP vessel design, operations and professional development are under continuous development and there is high focus on safety and towards the delivery of incident free DP operations.

The conference will be an excellent platform for the speakers to address an experienced audience of multi-disciplined DP experts and stakeholders.

### WORKSHOP / CONFERENCE SESSION THEMES

- DP Professional Competencies
- DP Verification & Validation
- Thrusters & DP Capability Standards
- DP Vessel Technology
- Reactivation of DP Vessels
- Unwanted Thrust / Thruster Fail-Safe Conditions

Workshop Facilitator : Suman Muddusetti (Chairman MTS DP Sub Committee on Guidance and Standards – Shell International Exploration and Production)

Workshop Co -Facilitator : Dr Steven Cargill (Member MTS DP Sub Committee on Guidance and Standards – DNV-GL NDMS Technical Authority for DP)

Organized by:





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DP ASIA CONFERENCE &  
MTS DP WORKSHOP PROGRAM  
DAY 1  
27<sup>th</sup> JUNE 2018



08:30 – 09:00 Registration

## SESSION 1 – DP TECHNOLOGY – DP ASIA CONFERENCE SESSION

Session Chairman: Priyadarshan Pandey (POSH Group)

- 09:00 – 09:10 Welcome Address:**  
By: Joey Fisher, Managing Director – M3 Marine Expertise; 8<sup>th</sup> DP Asia Conference Chairman
- 09:10 – 09:30 Industry Keynote:**  
By Nick Potter, GM, Shipping & Maritime, Asia Pacific & Middle East – Shell Trading
- 09:30 – 10:00 IMCA Updates**  
By: Andy Goldsmith, Technical Adviser – Marine – IMCA - International Marine Contractors  
Mike Meade, Chief Executive Officer – M3 Marine Group
- 10:00 – 10:25 Technology Keynote: A Connected Future?**  
By Arnstein Eknes, Segment Director, Offshore Service Vessels – DNV GL
- 10:25 – 10:50 The Future of Dynamic Positioning**  
By: Tormod Roland, Regional Sales Director – Kongsberg Maritime Pte Ltd

10:50 – 11:20 Morning Tea / Coffee Break

- 11:20 – 11:55 DPO Challenges with An Environmentally Referenced Sensor**  
By: Dr Adrian Wild, Head of Sales – Guidance Marine Pte Ltd
- 11:55 – 12:20 DP Technology Used as The Foundation for New Vessel Operations**  
By: Arnt Ove Austnes, Sales Manager – Rolls-Royce Marine AS
- 12:20 – 12:45 Developments on Remote DP Control and Autopilot with Collision Avoidance System and Possible Stepping Stones Towards Autonomous Ships?**  
By: Frode Klepsvik, Managing Director, Sinor Marine Technologies Pte Ltd
- 12:45 – 13:10 First FIF13 Notation Fire Fighting Vessel with DP Capability in the World**  
By: Ooi Sok Chuang, Tammie, Asst. Principal Engineer – Singapore Technologies Marine Ltd

13:10 – 14:00 Lunch Break

## SESSION 2 – DP PROFESSIONAL COMPETENCIES – MTS DP COMMITTEE WORKSHOP SESSION

Session Chairman: Suman Muddusetti

- 14:00 – 17:00** This workshop session will be led by the MTS DP Committee representatives and will explore the Draft TECHOP – ‘Competency Elements for DP Professionals – DP SMEs / DP FMEA Practitioners’. The MTS DP Committee will use this session to seek feedback on the draft document from the DP Asia delegates prior to publishing the document in the third / fourth quarter of 2018.

This MTS TECHOP identifies competency elements that are desirable in DP professionals functioning in Roles as DP SME’s in organizations as well as FMEA Practitioners. The TECHOP leverages the guidance documents published by the MTS DP Committee and utilizes the format of the Professional Development of DP Personnel Tool (Formerly known as the MDAT) to provide a structured approach to obtaining and demonstrating the identified competencies. It is expected that this TECHOP could be used as useful guidance by companies to develop their own company specific minimum requirements for personnel and competence assessment methodology. The MTS DP Committee is publishing this TECHOP with the objective of facilitating a level of standardization on the identification of minimum competencies, pathways to acquiring them and a means to demonstrate them.

15:40 – 16:10 Afternoon Tea / Coffee Break

17:00 END OF DAY ONE

17:00 – 18:00 COCKTAIL NETWORKING

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## SESSION 3 – THRUSTERS & DP CAPABILITY – DP ASIA CONFERENCE SESSION

Session Chairman: David Marren (Swire Pacific Offshore)

- 09:00 – 09:10** **Welcome Address:**  
By: David Marren, Technical Director – Swire Pacific Offshore
- 09:10 – 09:35** **Practical Experiences on the Use of DNV-GL DP Capability Standard ST-0111 and Web-Tool**  
By: Dong Trong Nguyen, Principal Engineer – DNV-GL AS
- 09:35 – 10:00** **Influence of Thruster Response Time on DP Capability by Time-Domain Simulations**  
By: Michael Palm, Head of Hydrodynamics – Voith Turbo
- 10:00 – 10:25** **Latest Improvements in Podded Thruster Technology:**  
**(i) Full-Scale Bollard Pull Measurements (ii) Market Response to New Azipod DZ Thrusters**  
By: Kimmo Kokkila, Product Manager, Compact Azipod® – ABB Marine & Ports
- 10:25 – 10:50** **Zero Pitch System - A protective function against unwanted thrust:**  
By: Thomas Kristiansen, Propulsion, Products and Services – Kongsberg Maritime

### 10:50 – 11:15 Morning Tea / Coffee Break

- 11:15 – 11:40** **The Challenges of Validation and Verification of Thruster Failure Modes & Unwanted Thrust**  
By: Alex Brabin, Projects Director – M3 Marine Expertise
- 11:40 – 12:05** **High Torque Gear in Azimuth Thruster Gear**  
By: Eric Steffens, Application & Engineering Support, SCHOTTEL GmbH
- 12:05 – 12:30** **Dynamic Drive Concept**  
By: James Tan Yong Hui, Project Manager – Caterpillar Marine

### 12:30 – 14:00 Lunch Break

## SESSION 4 – UNWANTED THRUST / THRUSTER FAIL SAFE CONDITIONS – MTS DP COMMITTEE WORKSHOP SESSION

Session Chairman: Suman Muddusetti

- 14:00 – 17:00** This workshop session will be led by the MTS DP Committee representatives. Many DP events and incidents continue to be related to thrusters / thruster control systems. The DP Community has made significant strides in improving reliability of generators, power distribution and power management systems, position reference sensors, sensors and their handling by the DP control systems. It is believed that there is an opportunity for improvement in thruster reliability which could significantly impact the delivery of predictable incident free DP operations. This session will explore some of those events / incidents and discuss what can be done to minimize the potential for such incidents.

### 15:40 – 16:10 Afternoon Tea / Coffee Break

### 17:00 END OF DAY TWO

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DP ASIA CONFERENCE &  
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## SESSION 5 – DP VALIDATION & VERIFICATION – MTS DP COMMITTEE WORKSHOP SESSION

Session Chairman: Dr Steven Cargill

**09:00 – 12:00** Validation and verification is the practice of confirming that a particular system has been designed and built in such a way that it achieves its design objectives. It is an important element of DP assurance during DP FMEA proving trials, Annual DP Trials and during the DP reactivation process. This workshop session will be led by the MTS DP Committee representatives. It will challenge traditional methods of validation and verification and will explore what other options are available to the industry, by leveraging the MTS guidance documents as well as papers put forward at the MTS DP Conference.

**10:30 – 11:00** Morning Tea / Coffee Break

**12:00 – 13:30** Lunch Break

## SESSION 6 – REACTIVATION OF DP VESSELS

**13:30 – 13:55** **An owner's perspective: Reactivation of Laid Up DP vessels**  
By: Indranil Majumdar, Chief Operating Officer – Miclyn Express Offshore

## REACTIVATION OF DP VESSELS – MTS DP COMMITTEE WORKSHOP SESSION

Session Chairman: Suman Muddusetti

**13:55 – 17:00** This workshop session will be led by the MTS DP Committee representatives. As an industry, we are starting to see the reactivation of DP Assets and this session will focus on what the reactivation process means to the various stakeholders. DP Asset Reactivation Guidance has recently been published by the MTS DP Committee and will be leveraged where applicable during the session.

Mining of reactivation experiences by the participants would be undertaken, synthesized and communicated to the sub committee on Reactivation. This should be seen as an opportunity by the DP community in the East to make their voice heard by way of offering comments on the Reactivation Guidance Document.

**15:30 – 16:00** Afternoon Tea / Coffee Break

**17:00 – 17:10** **Closing Remarks**  
By: Joey Fisher, Managing Director – M3 Marine Expertise; 8<sup>th</sup> DP Asia Conference Chairman

**17:10** **END OF CONFERENCE**

**17:10 – 19:10** **COCKTAIL NETWORKING**



## CONFIRMED ATTENDING COMPANIES / ORGANISATIONS:



Organized by:

