

Welcome to the DP Conference, 2010

We hope you enjoy the Conference!

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Shatto Engineering

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Registration

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Chair - Chuck Sims,
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Equipment Testing

Chair - Pete Fougere,*
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Chair - Ivar Storvik

Thruster Guidelines

Chair - Dietmar Deter,*
Nautex, Inc.

Regulatory Matters

Chair - Richard Simpson, *BP*

* DP Committee Founding member
Program and times subject to change

<http://www.dynamic-positioning.com>

For information about Proceedings,
Subcommittees' activities and future
conferences.

7:00 A. M. REGISTRATION, CONTINENTAL BREAKFAST & EXHIBITS

7:30 A. M. SPEAKERS' BREAKFAST

8:15 A. M. WELCOME - H. Shatto, *Shatto Engineering* - MTS DP Committee Chair

8:30 A. M. SENSORS I - Session Chair - Derek Savage, *XOM*

NASNet® DPR NASNet® as a Deepwater Acoustic DP Position Reference
Sam Hanton, *Nautronix*

Improving Accuracy and Redundancy with GPS and GLONASS PPP
David Russell, *Veripos*

High Integrity Electronic Positioning: Lessons from the Aviation Industry
Mark Ahlbrecht, *Honeywell Aerospace, Guidance and Navigation COE, USA*

10:00 A. M. REFRESHMENTS & EXHIBITS - Sponsored by *Beier Radio*

10:30 A. M. DESIGN - Session Chair - Steven Spencer, *Transocean*

Mitigating Excessive Pitch and Roll Motions on Semi-Submersibles
Nils Albert Jensen, *Kongsberg Maritime*

Output Feedback Passivity-Based Controllers for DP of Ships
Shah Muhammad, *TU Delft*

The Development Process of the DSME & Honeywell DP System for a Submerged Heavy Lift Carrier

Kim Se Won, *Daewoo Shipbuilding & Marine Engineering Co., Ltd. (DSME)*

The Effect of Memory in Passive Nonlinear Observer Design for a DP System
Admad Hajivand, *Amir Kabir University, Iran (In Proceedings, not presented)*

12:00 P. M. LUNCH PRESENTATION - Sponsored by *Det Norske Veritas (DNV)*

DP Advances in the USN Seabase: STLVAST Sea Trial and Completion

Gregory Hughes, *Oceaneering International, USA*

Awards - Distinguished Achievement Award - Doug Phillips, *DP Expertise*,

1:30 P. M. QUALITY ASSURANCE - Session Chair - Brian Haycock, *DP Expertise*

DNV: New Initiatives Related to Classification of DP Systems

Aleks Karlsen (presenter) and Stian Ruud, *DNV*

FMEA(A) - Fail to Meet Expectations Again (Again)?

Doug Phillips (presenter) *DP Expertise* and Steven Cargill, *GL Noble Denton*

DPS Notations - Clarifying the Role of Classification (Through Frequently Asked Questions and Answers)

George Reilly (presenter) and Pedro Santos, *ABS*

3:00 P. M. REFRESHMENTS & EXHIBITS - Sponsored by *GL Noble Denton*

3:30 P. M. ARCTIC - Session Chair - Åke Rohlén, *Rederi AB Transatlantic*

GNSS in the Arctic - Considerations and Experiences

Arne Rinnan, *Kongsberg Seatex AS*

Structural Monitoring Systems with Applications to Ice Response Monitoring

Geir Sagvolden (presenter) and Karianne Pran, *Light Structures AS*

4:30 P. M. PANEL DISCUSSION - Moderator - Suman Muddusetti, *Shell E&P*;

MTS Committee Document: Guidance on the Safe and Effective Management of DP Operations in the Offshore Oil and Gas Industry

Panel: Pete Fougere, *Transocean*, Ben Todd, *Hornbeck Offshore*, Sanjai Jatar, *Aker Marine Contractors*, Tim White, *Oceaneering*, Joe Hughes, *GL Noble Denton*, Rob Heijam, *Global Maritime*

5:00 P. M. EVENING RECEPTION - Sponsored by *Converteam & Kongsberg Maritime*

DP CONFERENCE PROGRAM: WEDNESDAY - OCTOBER 13, 2010

7:15 A. M. REGISTRATION, CONTINENTAL BREAKFAST & EXHIBITS

7:30 A. M. SPEAKERS' BREAKFAST

8:30 A. M. NEW APPLICATIONS - Session Chair - Don Wilkes, *Minden Engineering*

DP Power Plant Open Bus Redundancy with Reliable Closed Bus Operations
Saurabh Shah (*presenter*) and Kamal Garg, *Schweitzer Engineering Laboratories, Inc.*

Improved Usability in DP Tracking Operations
Ivar Ihle, *Rolls-Royce Marine AS*

Application of the Wärtsilä Low Cost Concept of a Dp3 ExD Semi-Submersible
Jeroen vanKeep, *Wärtsilä*

10:00 A. M. REFRESHMENTS & EXHIBITS - Sponsored by *American Bureau of Shipping (ABS)*

10:30 A. M. SENSORS II - Session Chair - Ian Dootson, *bp*

Acoustically Aided Inertial Navigation: A Real World Experience on the Semi-Sub Drilling Rig Petrobras XXIII
Gavin Hunting, *Sonardyne Brasil Ltda*

Low Noise Motion Measurements & Accurate Transformation of Acceleration Over Long Lever Arms on Large Vessels
Finn Otto Sanne (*presenter*) and Arne Rinnan, *Kongsberg Seatex AS*

FMEA Proving Trials and Offloading Technology for Deepwater Fields
Arjen Tjallema, *Bluewater Energy Services, B.V.*

12:00 P. M. LUNCH PRESENTATION - Sponsored by *Marine Cybernetics*

Experiences from Five years of DP Software Testing
Oyvind Smogeli, *Marine Cybernetics*

1:30 P. M. OPERATIONS - Session Chair - Sean Hickey, *Consultant*

Effective Alarm Management for Dynamic Positioning and Vessel Control Systems
Steve Savoy, *Enasco PLC*

Qualification of a DP Based FPSO Offloading Technology for Deepwater Fields
Svein Børge Hellesmark (*presenter*) *Remoratech, &*
Lars Kristian Moen, *Kongsberg Maritime*

RadaScan Applied to Vessel Underway Replenishment at Sea DP Operations
Dominic Pearce, *Guidance Navigation Ltd.*

3:00 P. M. REFRESHMENTS & EXHIBITS - Sponsored by *L-3 DP&CS*

ICE CREAM SUNDAES - Sponsored by *ABS*

3:30 P. M. THRUSTERS - Session Chair - Scott Britten, *Transocean*

Velocity Measurements in the Wake of an Azimuthing Thruster Using PIV
Hans Cozijn, *Marin*

Comparison of Thruster Axis Tilting versus Nozzle Tilting on the Propeller-Hull Interactions for a Drillship at DP Conditions
Michael Palm, *Voith Turbo Marine*

4:30 P. M. CONFERENCE WRAP-UP

Howard Shatto, *Shatto Engineering* - MTS DP Committee Chair

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- ◆ BP North American Arctic Exploration
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- ◆ Converteam, Inc.
- ◆ Kongsberg Maritime, Inc.

Refreshment Breaks

- ◆ ABS
- ◆ Beier Radio
- ◆ GL Noble Denton
- ◆ L-3 DP & CS

Ice Cream Refreshments

- ◆ ABS

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