

# ADVANCE PROGRAM

# Dynamic Positioning Conference 2017



**WORKSHOP: OCTOBER 9, 2017**  
**CONFERENCE: OCTOBER 10 - 11, 2017**

*Westin Houston Memorial City - Houston*



Opportunity runs deep™



## ABOUT THE CONFERENCE

Dynamic Positioning continues to be an evolving science characterized by product innovations, advancing technology, diversified applications, new standards and challenges. The MTS Dynamic Positioning Conference provides DP professionals with the opportunity to keep current and abreast of the latest technology, applications and changes affecting Dynamic Positioning. This is a must-attend event for all professionals actively involved in DP or interested in gaining a better understanding of this continually advancing science.

The Conference starts with a one-day workshop followed by a two-day technical conference. This provides three days of informative cutting-edge presentations, exhibits, and social gathering opportunities for informal discussions and exchange of knowledge, experience, and lessons learned. Comprehensive Conference Proceedings are published on the Internet. This focused conference provides access to key decision-makers and technology leadership in the Dynamic Positioning industry, making the MTS DP Conference the world's leading symposium on Dynamic Positioning.

This year's technical program will again focus on new technology, while addressing topical and requested topics such as risk and cybersecurity, environmental issues, lessons learned, and case histories. The conference will be of value to all DP professionals, including designers, engineers, DP operators, support staff, consultants, class societies, government organizations and regulatory agencies, and DP vessel managers and owners.

### WORKSHOP

A one-day workshop will be held on Monday, October 9, 2017. These workshops have proved to be both highly informative and extremely popular, and consistently sell out.

This year's workshop will focus on the latest MTS DP Guidance Documents and will follow a similar format to previous years. Space is limited and those planning to attend should register early.

### EARLY REGISTRATION DISCOUNT

Register by September 9, 2017 for the Conference early registration discounted rate of \$550 for MTS members and \$625 for nonmembers. Registration includes technical sessions, lunch both days, evening receptions and online access to the Proceedings. The early registration cost for the Workshop is \$150 for conference attendees and MTS members and \$200 for non MTS members not attending the full conference.

### SPONSORS

We invite sponsors to support the conference with their generous sponsorships. Details on the website.

## LOCATION

This year's conference will again be held at the spacious and elegant Westin Houston, Memorial City Hotel  
945 Gessner  
Houston, TX 77024  
Tel: 281/501-4300

The hotel is located in West Houston at the corner of Gessner and I-10, just east of the Sam Houston Tollway. Accommodation is available at a discounted rate of \$195 a night (plus tax) with advanced reservations by September 23, 2017, or until all allocated rooms are booked, whichever occurs first.

Book using the reservation link on the DP website at <http://dynamic-positioning.com/hotel/>

***The Conference is a volunteer-run event and all funds in excess of those required to stage the conference are used for DP Committee projects.***

### CONFERENCE COMMITTEE

#### Committee Chairman (Emeritus)

Howard Shatto, Shatto Engineering

#### Committee Chairman

Pete Fougere, Consultant

#### Conference Chairman

Stephen Browne, Consultant

#### Workshop Chair

Chuck Centore, GATE

#### Workshop Co-Chair

Blake Denton, Noble Corporation

#### Technical Chair

Graeme Reid, Maritime Assurance and Consulting

#### Technical Chair (2018)

Aaron Smith, OSVDPA

#### Treasurer

Dietmar Deter, Nautex, Inc.

#### Arrangements

Brenda Wolak, Consultant

#### Audio/Video

Ted Murphey, Kongsberg

#### Communications

David Hollier, Transocean

#### Exhibits

Dan Galligan, Oceaneering International

#### Publicity/Registration

Liz Stansfeld, Stansfeld & Fairbrother

## ABOUT THE WORKSHOP

Chair: Chuck Centore, *GATE*

Co Chair: Blake Denton, *Noble Corporation*

The DP Conference workshop has proved to be an extremely popular addition to the Annual Conference. The workshop precedes the two-day MTS DP Conference and will be held on October 9, 2017 at the WESTIN MEMORIAL CITY Hotel, (same venue as the conference). This workshop continues to be seen as adding value to the DP community. This view is reflected in the increasing number of requests to the MTS DP Committee to conduct similar workshops in other areas around the world.

The topics for the 2017 workshop include:

### 8:00 AM MORNING SESSION

#### **DP ASSET REACTIVATION: READY FOR RECOVERY WITH INCIDENT FREE DP OPERATIONS THROUGH THE IMPLEMENTATION OF MTS GUIDANCE**

### 11:30 AM LUNCH

### 12:45 PM AFTERNOON SESSION

#### **RISK MANAGEMENT: DEVELOPING A ROBUST PLAN FOR CRITICAL DP PERSONNEL PREPAREDNESS IN COLLABORATION WITH INDUSTRY PROFESSIONALS**

### 4:30 PM - CONCLUSION OF WORKSHOP

TECHOP Guidance Documents relevant to the workshop will be published and available on the website prior to the Workshop. Participants will review and provide feedback on the featured TECHOP to the Guidance and Standards Sub Committee. Comments will be addressed and incorporated in the final version of this and other TECHOPs, if relevant.

Workshop attendance is limited to 90. Registration is separate from the Conference registration. Early registration is \$150 for Conference attendees and MTS members or \$200 for non MTS members not attending the Conference. Rates increase by \$50 respectively after September 9, 2017.

### Those Likely to Benefit from the Workshop

- Shipyards/DP Vessel Designers, Key DP Equipment Vendors
- Consultant Community
- Representatives from Vessel Owners/Contractors Project teams, Technical department (with accountability for specifying DP -- Equipment, FMEAs, Operations)
- Representatives from Class and Statutory Bodies (Flag State/Coastal State)
- Vessels' Operational Management teams (Masters, Chief Engineers, Chief Electricians, DPOs)
- Representatives from Oil Companies/Operators with accountability for assurance on marine and DP-related matters
- Representatives responsible for training personnel/stakeholders engaged in DP operations. (Not limited to DPO training)

The workshop will follow a similar format to previous years with the participants working in small groups of 8 -10 people per table. Experienced personnel will be available to participate, coach and mentor each group.

Results and conclusions from the workshop will be summarized and presented to the MTS DP Technical Committee and DP Conference participants at the Conference luncheon on October 10, 2017.

**Early registration for the DP Conference will open at around 3:30 PM. A reception - sponsored by HORNBECK OFFSHORE - will be held in the Exhibit Hall for all early registrations starting at 4:00 pm**

## DP CONFERENCE 2017 SPONSORS



## DAY ONE

- 7:00 AM Registration Opens
- 7:00 - 7:45 AM Speakers' Breakfast
- 7:00 - 7:45 AM Continental Breakfast for Delegates in the Exhibit Hall
- 8:00 AM **WELCOME REMARKS**  
Peter Fougere - DP Committee Chair
- 8:15 AM **KEY NOTE SPEAKER** - *Derrick O'Keefe, National Offshore Petroleum Safety and Environmental Management Authority*
- RISK**
- 8:30 AM **Lessons Learned or Not**  
Kevin Smith, *Maritime Assurance and Consulting*
- 9:00 AM **DP Trials - Lessons Learned for MODUs**  
Jan Chow, *American Bureau of Shipping (ABS)*
- 9:30 AM **To be confirmed**  
*PACC Offshore Services Holdings (POSH)*
- THRUSTERS**
- 10:30 AM **Influence of Thruster Response Time on DP Capability by Time-Domain Simulations**  
Dirk Jürgens, Ph.D. , Michael Palm, *Voith*
- 11:00 AM **Systematic Approach to Develop an Optimized Nozzle Design for Up-To-Date and Future Demands**  
Jan Glas, Klaus Tweddel, Lutz Müller, *Schottel*
- 11:30 AM **The Effect of Inflow and Counter-Rotating Props on the Efficiency of Azimuthing Thruster**  
Harris Reynolds, Wu Zhu, *Diamond Offshore Drilling*
- 12:00 PM **LUNCH & AWARDS** - *Sponsored by DNV GL*
- Distinguished Achievement Award**  
**Workshop Update and Wrap up of the Aberdeen Workshop**
- SENSORS**
- 1:30 PM **Comparing Tightly-Coupled versus Loosely-Coupled Integration for GNSS and INS**  
David Russell, PhD., *Veripos*
- 2:00 PM **Choosing an Acoustically-Aided INS is Not Just a Tick Box Exercise**  
Mark Carter, *Sonardyne*
- 2:30 PM **Sensing Autonomy**  
Arne Rinnan, *Kongsberg Seatex*
- 3:00 PM *Refreshment Break*
- DESIGN/OPERATIONS** - Session Chair: Kris Kallaway, *ConocoPhillips*
- 3:30 PM **Independent Performance Validation (IPV) for Robust and Resilient DP Systems**  
Chunying Li, *Aspin, Kemp & Associates*; Steven Cargill, *DNV GL*
- 4:00 PM **Unique Full-Scale Bollard Pull Test of a Large DP Vessel Newbuild with Six Azipod CZ Thrusters**  
Kimmo Kokkila, *ABB Oy*
- 4:30 PM **Simulation Based After Action Review**  
David Milne, Doug Olson, *Noble Corporation*
- 5:00 PM **COCKTAIL RECEPTION**

**DAY TWO**

- 7:00 AM Registration Opens
- 7:30 - 8:15 AM Speakers' Breakfast
- 7:30 - 8:15 AM Continental Breakfast for Delegates in the Exhibit Hall

**OPERATIONS**

- 8:30 AM **DP Verification Study and Training for a Multi-Vessel Flexible Riser Replacement Campaign**  
Torbørn Alstad, Erik Hågensen, *Kongsberg Maritime*
- 9:00 AM **Challenging Shallow Water DP Jacking Operations - Design and Operational Feedback**  
Sofien Kerkeni, Denis Gagneux, Xavier Dusser, Bruno Dujon, *D-ICE Engineering*
- 9:30 AM **Multivessel Cooperative DP Operations**  
André langagui, Eduardo Aoun Tannuri, *University of São Paulo*
- 10:00 AM *Refreshment Break - Sponsored by Hornbeck Offshore*

**TESTING/RISK**

- 10:30 AM **Dynamic Positioning System (DPS) Risk Analysis Using Probabilistic Risk Assessment (PRA)**  
Eric Thigpen, SAIC; Michael Stewart, NASA; Roger Boyer, NASA; Pete Fougere, *Consultant*
- 11:00 AM **Benefitting from the Use of MTS TECHOPS - A Case Study**  
Stuart Duffield, Sean Hogue, Landon Applegate, *London Offshore Consultants (LOC)*
- 11:30 AM **Cybersecurity in the Oil and Gas Industry - What's Here and What's Coming**  
Aarushi Goel, *GoDaddy*

12:00 PM **LUNCH**

**Allseas Pioneering Spirit**

**TRAINING/COMPETENCY**

- 1:30 PM **Training Competence Assurance**  
Ralph Benham, *Maersk Training*
- 2:00 PM **Real DP Time, Really? Using Technology for DPO Experience**  
Dan Endersby, Steve Sandercott, *All Offshore*
- 2:30PM **Adapting to the Downturn - An Examination of How Demand for Training has Changed in Challenging Market Conditions**  
John Lloyd, Susan Stiles, *The Nautical Institute*
- 3:00 PM *Refreshment Break*

**PERFORMANCE**

- 3:30 PM **DNV GL DP Capability Standard ST-0111 - Challenges and Updates One Year from Publishing**  
Luca Pivano, Aleks Karsen, *DNV GL*
- 4:00 PM **DP Station Keeping Accuracy - a Calculation Approach, Integration in DP Plots and Results of a Case Study**  
Jorrit-Jan Serraris, Hans Cozijn, *Marin*
- 4:30 PM **Application of Navigation Grade Inertial Navigation Systems to Provide Tighter Station Keeping Capability and to Improve Reliability and Monitoring of Position Reference Systems on MODUs**  
Bill Gilmour, *Chevron*
- 5:00 PM **Conference Wrap Up**

## SPONSOR PACKAGES

Please consider becoming a conference sponsor.

Workshop, Breakfast, Lunch (Wednesday) Evening Reception, and Refreshment Break Sponsors opportunities are available. We are also looking for a company to supply flash drives.

All sponsors are recognized on the website, in the printed Conference material and at the Conference.

To sponsor or for more information, contact Liz Stansfeld, (512) 301-2744, or [info@mtsdpconference.com](mailto:info@mtsdpconference.com)

## EXHIBITORS

Two connected areas of exhibit space adjacent to the conference room provide maximum exposure to conference delegates and generous booth spaces for exhibitors. Refreshment breaks and the cocktail reception are all hosted in and around the exhibit areas.

### EXHIBIT PACKAGE

- Two full conference passes.
- Generous space with ample traffic room.
- 110 VAC electric power. Exhibitors should bring their own power strips and cords.
- Tables, two chairs and table drape provided.
- Attendee list and access to proceedings following the conference.
- Recognition in printed material, at the Conference and on the website.

### DELIVERY AND SHIPPING

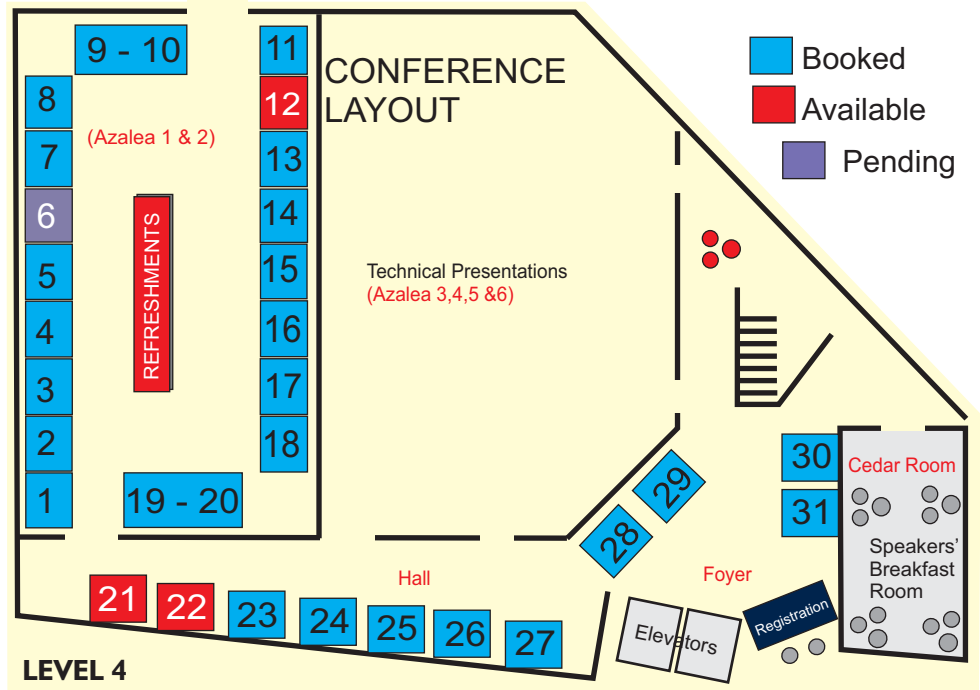
Ship exhibit material to:

Dynamic Positioning Conference Oct: 9-11, 2017  
 Name of Exhibitor  
 Number of Boxes (Box # of #)  
 Westin Houston Memorial City Hotel  
 945 Gessner  
 Houston, TX 77024

Do not ship materials to arrive earlier than October 7, 2017

### Exhibitors

- |   |                              |
|---|------------------------------|
| 1 | Siemens                      |
| 2 | Rolls Royce Marine           |
| 3 | Advanced Designs Corporation |
| 4 | ABB Marine                   |
| 5 | ABB Marine                   |
| 6 | Vessel Technology (Pending)  |
| 7 | Guidance Marine              |



- |    |                                 |
|----|---------------------------------|
| 8  | Guidance Marine                 |
| 9  | Fugro Satellite Positioning     |
| 10 | Fugro Satellite Positioning     |
| 11 | Kongsberg Maritime              |
| 13 | Keelson Marine Assurance        |
| 14 | Aspin Kemp & Associates         |
| 15 | Voith Turbo                     |
| 16 | Beier Integrated Systems        |
| 17 | Veripos                         |
| 18 | Renishaw Inc.                   |
| 19 | Wärtsilä-Dynamic Positioning    |
| 20 | Wärtsilä-Dynamic Positioning    |
| 23 | Maersk Training                 |
| 24 | Sonardyne                       |
| 25 | Braemar Engineering             |
| 26 | DNV GL                          |
| 27 | GE Power Conversion             |
| 28 | Oceaneering International       |
| 29 | Core Group Resources            |
| 30 | Maritime Assurance & Consulting |

# DP CONFERENCE 2017 - REGISTRATION

Register by September 9, 2017 to take advantage of the early registration discount

## Full Conference Registration

Members of MTS	\$550.00 By September 9, 2017	\$650.00 After September 9, 2017
Nonmembers*	\$625.00 By September 9 2017	\$650.00 After September 9, 2017
Lifetime MTS Members	\$100.00	
Full-time Students (with student ID)	\$100.00	

## One-Day Registration

Members of MTS	\$350.00 By September 9, 2017	\$450.00 After September 9, 2017
Nonmembers*	\$425.00 By September 9, 2017	\$525.00 After September 9, 2017

## Workshop Registration (limited to first 90 paid registrants)

Conference attendees and MTS Members:	\$150.00 By September 9, 2017	\$200.00 After September 9, 2017
Non MTS Members NOT attending the conference :	\$200.00 By September 9, 2017	\$250.00 After September 9, 2017

\*Nonmembers' registration fee includes a one-year membership to the Marine Technology Society.

Register and pay online at: <http://dynamic-positioning.com>:  
or mail this form with a check payable to **MTS DP Committee** to:  
MTS DP Committee  
c/o Stansfeld & Fairbrother, Inc.  
9300 Sandstone St.  
Austin, TX 78737

**ONLINE REGISTRATION**  
The fastest and easiest way to register is online at  
[http://dynamic-positioning.com/  
next-conference/registration](http://dynamic-positioning.com/next-conference/registration)

## Registration Information:

If you wish to pay by credit card, please pay online through the web site at <http://www.dynamic-positioning.com>

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Postal Code \_\_\_\_\_  
Country: \_\_\_\_\_  
Day Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Please check all that apply:

MTS Member \_\_\_\_\_ MTS Life Member \_\_\_\_\_ Student \_\_\_\_\_

## Events You Wish to Attend (Click all that apply)

Full Conference \_\_\_\_\_ One day \_\_\_\_\_ (If one day, state day: \_\_\_\_\_) Workshop \_\_\_\_\_

To access the Proceedings on line, please specify a user name (must be an email address) and password:

Email \_\_\_\_\_ Password: \_\_\_\_\_

Mail Registration to:

MTS DP Committee  
c/o Stansfeld & Fairbrother, Inc.  
9300 Sandstone St.

Austin TX 78737



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Austin, Texas 78737  
512 301 2744  
<http://dynamic-positioning.com>



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