

# IADC Advanced Rig Technology

## CONFERENCE & EXHIBITION

“EXPLORING ADVANCED TECHNICAL SOLUTIONS FOR  
ONSHORE AND OFFSHORE DRILLING”

DIAMOND



**Huisman**  
Worldwide Lifting, Drilling and Subsea Solutions

PLATINUM



SILVER





Event Sponsor



### TUESDAY, 13 OCTOBER 2015

#### 07.00 Conference Registration, Coffee Service & Open Exhibition

Sponsored by DRILCO

Winter Garden

#### 07.00 Speaker Briefing

(Speakers, Moderators &amp; Session Chairs only)

Grand Ballroom

#### 08.30 Welcome, Introduction & Safety Briefing

Stephen A. Colville, President &amp; CEO, IADC

Terry Loftis, IADC ART Committee Chairman; Director Engineering, Transocean

Grand Ballroom

#### 08.40 Keynote Presentation

Harry van der Meijden, Inspector General of Mines, State Supervision of Mines, Ministry of Economic Affairs

#### 09.00 IADC Advanced Rig Technology (ART) Committee Update

- Terry Loftis, ART Chairman: Director Engineering, Transocean
- Robin Macmillan, ART Vice Chairman: Senior Vice President Business Development, National Oilwell Varco
- Trenton Martin, Subcommittee Chairman: Drilling Control Systems; Engineering Manager – DP, Instrumentation & Controls, Transocean
- Rex Bomer, Subcommittee Vice Chairman: BOP Controls; Product Line Manager – BOP Controls, Cameron

#### 10.00 Coffee Break & Open Exhibition

Sponsored by DRILCO

Winter Garden

#### 10.30 Making Equipment Smarter

Session Chair: Guido van den Bos, Vice President for Europe &amp; Sub-Saharan Africa Operations, National Oilwell Varco

**Applying Process Automation in the Drilling Industry** Benjamin Facker, Director NOVOS Strategy and Support, National Oilwell Varco

**Saving Operator Cost By Integrated Development of Down-hole and Surface Drilling Equipment** Geertjan van Og, Managing Director, Pieter van Duivendijk, Huisman Well Technology

**The Challenges, Consequences and Opportunities of Making Equipment Smarter** Dr. Andrew Jaffrey, Director of Technology & Innovation, Cameron

#### 12.00 Luncheon & Open Exhibition

Sponsored by Atlas Copco

St. Johns &amp; Volmer Rooms

#### 13.30 Industry Response Panel

Moderator: Terry Loftis, IADC ART Committee Chairman; Director Engineering, Transocean

*The current decline in oil & gas exploration activity challenges all participants in this market sector; operators, drilling contractors, service companies, manufacturers and affiliated consultants alike. Operational efficiency is not necessarily shared equally, but all participants are focused on delivering value-added performance to their respective customers and the industry at large will benefit. This session will utilize interactive media to focus the audience on a few key technical initiatives and allow a distinguished panel of industry experts to discuss and debate their perspectives on the benefits to the oil & gas market.*

- Frederik Smidth, Chief Technical Officer, Maersk Drilling
- Andrew Bruce, Chief Operations Officer, MHWirth

- Peter Peytchev, East Africa Well Engineering Manager, Tullow Oil Plc
- Willy Oude Essink, GM Well Operations Innovation, Shell
- Walt Aldred, Director Scientific Advisor, Schlumberger Cambridge Research
- Simon Drew, President of Land Drilling, KCA Deutag

## 15.00 Coffee Break & Open Exhibition

Sponsored by DRILCO

Winter Garden

## 15.30 Innovation in Drilling Equipment

Session Chair: Joop Roodenburg, CEO, Huisman

**Robotics on the Drill Floor** Dieter Wijning, Product Manager Drilling, Huisman Equipment BV

**Condition Based Maintenance – A Standard Industry Need** Jona Williams, Product Manager, National Oilwell Varco

**Advancements in Solids Control Technology** Samuel Bridges, Product Line Manager, Derrick Equipment Company

## 17.00-18.00 Welcoming Reception & Open Exhibition

Winter Garden

# WEDNESDAY, 14 OCTOBER 2015

## 07.30 Conference Registration, Coffee Service & Open Exhibition

Winter Garden

## 08.30 Welcome, Introduction & Safety Briefing

Terry Loftis, IADC ART Committee Chairman; Director Engineering, Transocean

Grand Ballroom

## 08.35 Keynote Presentation

Markus Plankensteiner, Director Industrial Solutions, & Mirko Jakovljevic, Solution Architect Integrated Critical Systems, TTTech Computertechnik AG

## 9.00 Drilling Systems Automation Roadmap Update – Affiliated to IADC

Robin Macmillan, Senior Vice President Business Development, National Oilwell Varco

## 09.30 Plug & Abandonment

Session Chair: Gavin Humphreys, New Business & Technology Manager, Stena Drilling

**Plug & Abandonment Using Plasma-based Tool** Tomas Kristofic, Chief Technical Officer, Matus Gajdos, Slavomir Jankovic, Igor Kocis, Gabriel Horvath, GA Drilling

## 10.00 Coffee Break & Open Exhibition

Winter Garden

## 10.30 Hoisting & Pipe Handling

Session Chair: Keith Ross, Senior Account Leader, ESSA and MENA, Halliburton

**Cylinder Rigs; Time to Evaluate** Richard Verhoef, Product Line Director, Helge Kjevik, National Oilwell Varco, Barry Rainy, Stena Drilling

**Direct Acting Hoisting System** Harald Langenes, Project Layout Manager, Håkon Bergan, Cameron

**Advances In Land Pipe Handling – Increasing Safety, Efficiency And Automation** Joel Heinen, Product Line Manager Land, Dylan Rigby, National Oilwell Varco, A. Koether, G. Keogh, G. Hudson, Cactus Drilling Company LLC

## 12.00 Luncheon & Open Exhibition

St. Johns and Volmer Rooms

## 13.30 Advanced Rig Technology: What is Missing?

Session Chair: Robin Macmillan, Senior Vice President Business Development, National Oilwell Varco

*Equipment manufacturers, service companies and drilling contractors all contribute to the development of advanced rig technology. Are they on the right track? What is it that operators need to enhance their safety, efficiency and productivity of operations that the industry may not be currently delivering or working on? A team of senior managers, representing I.O.C.'s, N.O.C.'s, and independents, will give us their views on the advanced rig technology their major industry partners should be focusing on today, to improve what we can achieve together tomorrow.*

- Léon van den Broek, Drilling Rig Global Category Manager, Shell Global Solutions International B.V.
- Benoît Ludot, Vice President Drilling & Wells, Total Upstream
- Brian Hay, Director Rig Engineering, BP
- Geir Ove Eikill, Vice President Mobile New Builds, Statoil

## 14.30 Workshop Review: Technologies to Achieve Operational Efficiency in a Challenging Market

Robin Macmillan, Senior Vice President Business Development, National Oilwell Varco

## 15.00 Coffee Break & Open Exhibition

Winter Garden

## 15.30 Software Innovations That Drive Drilling Efficiency

Session Chair: Gregers Kudsk, Vice President, Maersk Drilling

**Automating Surface Drilling Machines with Downhole Modeling Preserves Smooth, Stable Drilling State** Frode Efteland, Product Line Manager, Rui Pan, National Oilwell Varco

**Frontiers in Computer Vision for Drilling** Kenneth Morton, Chief Scientist, Pete Torriane, Mark Hibbard, CoVar Applied Technologies

**Next Generation Hardware-in-the-Loop Simulation Enables Advanced Testing of Offshore Hydraulic Systems** Witold Pawlus, AC Drive Responsible, Ivar C. Inouva, Søren Øydnå, MHWirth, Torstein K. Wroldsen, Geir Hovland, University of Agder

## 17.00 Adjournment

Terry Loftis, IADC ART Committee Chairman; Director Engineering, Transocean

## EXHIBITORS

*Be sure to visit the conference exhibitors. These companies will have representatives available to answer questions and provide information.*

- |                            |                             |                                 |
|----------------------------|-----------------------------|---------------------------------|
| • Atlas Copco              | • Deep Drill Supply Group   | • Huisman                       |
| • Bauer Deep Drilling GmbH | • Derrick Equipment Company | • Juniper Systems Limited       |
| • Bluhull Group Malta      | • DRILCO                    | • Manuli Hydraulics             |
| • Breuer Motoren           | • Drillmec SpA              | • NOV                           |
| • Cameron Rig Solutions    | • Herrenknecht Vertical     | • Salunda Limited               |
| • Cansco Well Control      |                             | • STREICHER Drilling Technology |

## CONFERENCE PROGRAM COMMITTEE

*A special thanks to the following committee members for their support in organizing the conference:*

- |                                                          |                                               |
|----------------------------------------------------------|-----------------------------------------------|
| • Guido van den Bos, National Oilwell Varco              | • Robin Macmillan, National Oilwell Varco     |
| • Brian Ellis, Canrig Drilling Technology Ltd            | • Thomas Myrvold, Cameron                     |
| • Mark Gravouia, McCoy Drilling & Completions            | • Joop Roodenburg, Huisman Equipment BV       |
| • Gavin Humphreys, Stena Drilling Ltd.                   | • Keith Ross, Halliburton Energy Services     |
| • Thomas Kipker, Bentec GmbH Drilling & Oilfield Systems | • Ian Russell, KCA Deutag                     |
| • Gregers Kudsk, Maersk Drilling                         | • Dusty Sonnier, McCoy Drilling & Completions |
| • Terry Loftis, Transocean                               | • Dustin Torkay, Seadrill                     |
|                                                          | • Morten Welmer, National Oilwell Varco       |