27-28 SEPTEMBER 2017
MÖVENPICK HOTEL AMSTERDAM CITY CENTRE
AMSTERDAM

IADC Drilling
HSE&T Europe
CONFERENCE & EXHIBITION

“Learn from Today, Prepare for Tomorrow”

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KCA DEUTAG
Drilling wells involves managing major accident hazards. To manage these hazards effectively it requires the workforce (offshore as well as in the office) to understand the interaction between all the SECE barriers that are in place and owned by Operator, Drilling Contractor and Service Company. Setting clear expectations for designing, implementing, operating, maintaining, testing and verifying these SECE barriers should be the normal way of working. This process requires clear Barrier Management to represent barrier ownership, interaction and to ensure reliability. Learning from each other (and from other industries) through sharing of good practices, incident learnings, as well as aligning processes and terminology will help us to strengthen our knowledge of Barrier Management. This panel intends to further strengthen this collaboration and share the current views how companies have further enhanced their systems and expectations.

- Kenneth Dupal, Engineering Manager, DW Wells Process Safety, Shell International E&P
- Louise Grann Lauersen, Barrier Management Project Manager, Maersk Drilling
- Torleif Husebo, Head of Process Integrity Section, Petroleum Safety Authority Norway
- Kevin Murdoch, Manager Operations Integrity – Europe, Asia and Africa, Transocean

**Creating a Culture of Care and Discipline for a Safer Workplace**
*Gordon Graham, GM Wells Egypt, Shell International E&P*

Experiences moving to a leadership role in a Shell Joint Venture in Egypt will be explained where Gordon Graham is the Deputy General Manager for Drilling, Completions and Well Interventions in Bapetco. An HSE program was developed to enhance results and lead to a significant decrease in recordable cases and the enrollment of staff and contractors in the drive for improved HSE performance. The results speak for themselves with TRCF reduction from almost 4.0 to 0.91 at year end. This has been achieved by focused “Risk Champion” programs and enhanced Leadership presence and engagement – the details of which will be presented.

**Preventing Pollution in Sensitive Areas**
*Lin Silje Nilsen, Senior Engineer HSE Management, Ingrid Årstad, Ingvill Røsland, Petroleum Safety Authority Norway*

A license to operate depends on society’s perception of risk and its confidence in the industry’s ability to prevent major accidents. Safety performance is under increasing public scrutiny, especially in sensitive areas. The Petroleum Safety Authority Norway monitors developments and trends in different safety indicators. This work also communicates performance with respect to prevention of acute discharges to sea and accidental events with potential for severe pollution. The background for this perspective in our monitoring work will be presented, its results and identified trends, as well as our reflections around possibilities to improve work to prevent accidents, including high-consequence accidents.

**12.15 Luncheon & Open Exhibition**

**13.45 Featured Presentation: Reversing the Trend**
*Sigve Knudsen, Director of Legal and Regulatory Affairs, Petroleum Safety Authority Norway*

The industry is changing and being challenged. Pressures are growing. The past two years have been characterized by serious incidents and safety challenges. Petroleum Safety Authority Norway’s main issue for 2017 is “reversing the trend” and the work will be focused on three defined areas; collaboration, robustness and standardisation.

**14.15 Life Cycle of Contracts**
*Moderator: Bent Nielsen, Head of HSSE, Maersk Drilling*

Many stakeholders are involved throughout the life cycle of a contract to maintain a safe working environment and workplace. The main stakeholders are the oil company holding the drilling lease, the drilling contractor and associated service companies being at the worksite for various tasks to be performed. The involved parties all come with their own background, safety management philosophy, equipment and people. They need to adapt to the oil company and drilling contractor’s way of working and are governed under typically the drilling unit’s overall safety management and systems. They can, throughout the contract, find themselves compromising their own systems to accommodate how the main stakeholders expect them to operate, and often live with frustrations in this respect.

What can the main stakeholders do to facilitate contractors in their daily work on site? What can the contractors do to adapt to the main stakeholders requirements and maintain the “One site One team spirit”?

- Ahmad Alshatti, Safety Engineer, Kuwait Oil Company
- Norbert van Beelen, Vice President of Wells Safety and Environment, Shell International E&P
- Ian Paterson, Vice President Global Accounts – Shell, Baker Hughes
- Peter de Bruinje, Director Marketing & Contracts Europe – Africa, Paragon Offshore
Cyber security threats have grown in reach and complexity. As a consequence, cyber security has become a concern and should be considered as an integral part of the overall safety management in shipping and offshore operations. The presentation provides tangible examples of findings from cyber security and network health tests performed onboard of various vessels, such as shuttle tankers, FPSOs, and drillships by DNV GL Maritime Advisory. Typical pitfalls of on-board cyber security will be discussed, such as inadequate protection mechanisms, installation failures and mismatches between documentation and installation, vulnerabilities in controllers, insufficient network capacities, and consequences thereof.

Plain Sailing? Observations of Cyber Security and Network Health Problems in Control Systems at Sea
Mate J. Csorba, Principal Specialist, DNV GL

Cyber security threats are worldwide and we must have plans in place to deal with them….it’s too late on the day to pull them off the shelf, dust them off and use them!

Manage the company to keep the employees job fit. Become aware of the physical degeneration, optimizing lifestyle and proper diet helps the employees to comply with the work safety and work requirements of the future. The recommendation shows the new strategy of the company (offshore) to deploy a personal health and well-being (facts of getting older, body degeneration, mental problems during offshore time) strategy. It will give a clear overview of necessary measures to be taken in order to set up a sustainable vitality program. Employees see it as money strategies for the future. The new life style will be used for the emphasis and will develop a 2.0 vision to work and live on the platform.

Improving Workforce Alertness, Health, and Safety with Offshore Light Treatment
Koos Meijer, Director - Human Factors Consultant, KM Human Factors Engineering

Poor sleep and fatigue increases the risk for human error, that is why managing it should be a top priority in high-hazard industries. NASA successfully applies a form of light treatment for over 20 years. By targeting the sleep center of our brain, with blue lights and special glasses, light treatment increases sleep quality without the help of medication. Our latest projects at Allseas and Bluewater shows that light treatment can be applied as an effective tool in enhancing sleep efficiency and reducing workforce fatigue. It will raise HS&E and process safety to a new level.

Keep the Crew Job Fit
Martin van Assendelft, CEO, M.Point Life Style Center

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Networking Break, Coffee Service & Open Exhibition
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E-Security
Session Chair: Neil Forrest, Director HSSEQ, Seadrill Management

Security Preparedness
Kenny Adams, Head of Land Drilling QHSSET, KCA Deutag Drilling GmbH

Within KCA Deutag we are continually developing our security plans and protocols to ensure the safety of our personnel both on the rig site and office locations. We have developed a number of security systems to ensure we are prepared for security events, having the ability to respond effectively and recover in a timely manner maintaining our business continuity and ongoing safety of our personnel. Security threats are worldwide and we must have plans in place to deal with them….it’s too late on the day to pull them off the shelf, dust them off and use them!

Networking Break, Coffee Service & Open Exhibition

Conference Registration, Coffee Service & Open Exhibition

Welcome, Introduction & Safety Briefing
Jens Hoffmark, Regional Vice President - European Operations, IADC

Keynote Presentation
Beate Myiking, Vice President Drilling & Well Facilities and Development Projects, Statoil ASA

IADC HSE&T Committee & Workforce Development Update
Mike DuBose, Vice President - International Development, IADC

Fit for the Job
Session Chair: Bram Leerdam, HSE&Q Manager, Paragon Offshore

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Improving Workforce Alertness, Health, and Safety with Offshore Light Treatment
Koos Meijer, Director - Human Factors Consultant, KM Human Factors Engineering
Tubular Handling Assessments - Denying Gravity
Alistair Tong, Principal Specialist HSE, Aberdeen Drilling Consultants

It was apparent at the 2016 IADC Drilling HSE&T Europe Conference that we still have an undeniable dynamic dropped object problem, particularly when handling pipe and also in our moon-pools. Tubular (or BOP) Handling Assessments ensure such risks are reduced ALARP by looking at things differently. Automation of drill-floor machinery and tubular-handling equipment has many advantages but introduces new hazards. Malfunctions or misuse of equipment has high potential all too often realized, for serious injury or fatality. The “All 4 One” approach and independent view has helped see and do things differently before it counts.

Reduce Cost and Enhance Efficiency with an Effective Telemedicine Solution
Louise Slaney, Medical Director Offshore – Northern Seas, Michael Braida, Dick Hooper, International SOS

Technology available today has enabled the implementation of customised healthcare services for the offshore oil & gas industry. The challenge, in times where we need to maintain a focus on cost containment, is to identify the realisable value beyond conventional enhancement of diagnostic capability and therefore objectivity in decision making concerning the management of medical emergencies and ill-health at work. We believe that through the implementation of innovative digital technologies and linking offshore sick bays with onshore medical expertise, we create an opportunity for significant cost reduction in achieving standard occupational health and safety performance and increased worker satisfaction.

16.00 Adjournment

Unassigned Papers of Note:
The following paper proposals will be included in the conference program if a scheduled paper becomes unavailable. In addition, these presentations will be made available in the IADC conference proceedings, should the author so desire.

Advanced Barrier Management: Bowtie Analysis, Barrier-Based Incident Analysis and Risk Based Auditing
Ben Keevaar-Oi, HSE Strategy Consultant, CGE Risk Management Solutions B.V.

Advanced barrier management addresses the three fundamental questions of risk management: Do we understand what can go wrong? Do we know what our safety measures are to prevent this happening? Do we know whether these safety measures are working effectively? Barrier management has proven to be a successful method to visualize risk scenarios and identify gaps in risk control. Bowtie diagrams can also be used to unite risk assessment and risk assurance (audit findings, incident recommendations, maintenance backlogs) in one central place. This allows risk owners to prioritize improvements, create targeted recommendations and make risk-based decisions.

Simulation Training for Lifeboat Launching
Randy Billard, Chief Technology Officer, Anthony Patterson, Virtual Marine Technology Inc., Jennifer Smith, Memorial University of Newfoundland, Lochlan Magee, Independent Researcher

Lifeboat simulators have been specifically created for offshore personnel to practice emergency scenarios using representative equipment and virtual environments. A human factors study was performed to evaluate how training performed using a simulator compares to traditional training methods, including onboard drills and annual refresher training. Participants were trained one of three ways over a year and then evaluated on their ability to successfully launch a lifeboat in a plausible emergency event. Comparisons were made between traditional training approaches and groups trained with simulation. The study indicates the group trained with the simulator was more successful in launching the lifeboat.

Embed Safety in Rig Designs to Improve Employee and Financial Performance
Precious Nwokoma, Engineering Specialist-Drilling, Huisman Equipment BV

This presentation shows a comparison between traditional rig design features and a modern rig design with enhancements that will reduce employee fatigue, improve safety of personnel and financial performance. It will show how equipment placement and an improved rig layout can lead to safer work conditions and environment.

CONFERENCE VENUE & HOTEL INFORMATION
Mövenpick Hotel Amsterdam City Centre
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Rates: Classic Singe Room Euro 219.00 per room per night including breakfast and tax, excluding city tax 5%.
The negotiated room block will expire on 16 August 2017. After this date rooms are upon availability.

EXHIBITORS
• Dropsafe
• Global Gravity
• MAERSK TRAINING
• Marex Marine and Risk Consultancy
• Rider International BV
• Ringers Gloves
• Presight
• Stopdrop Tooling

PROGRAM COMMITTEE MEMBERS
A special thanks to the following program committee members for their support organizing the conference:

• Norbert van Beelen, Shell International
• Alberto Cipolla, Saipem
• Neil Forrest, Seadrill Management
• Ashok Garlapati, Kuwait Oil Company
• Tony Johnson, Transocean
• Bruce Kain, Northern Offshore
• Gary Kelso, BP Exploration
• Bram Leerdam, Paragon Offshore
• Janike Myre, Odfjell Drilling
• Bent Nielsen, Maersk Drilling
• Barry Quinn, Noble Drilling
• Jeremy Townshend, KCA Deutag
• Øyvind Tuntland, Petroleum Safety Authority Norway
• Gert-Jan Windhorst, NOGEPA
• Derek Hart, IADC
• Jens Hoffmark, IADC

Exhibition and Sponsorship opportunities are still available! Please contact europe@iadc.org / +31.24.675.2252 for more information.