

24-25 FEBRUARY 2016 • SHANGRI-LA HOTEL
KUALA LUMPUR, MALAYSIA



IADC Drilling HSE&T Asia Pacific 2016

CONFERENCE & EXHIBITION

"HSE&T in Uncertain Times"

Endorsed by



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KUALA LUMPUR, MALAYSIA

IADC Drilling HSE&T Asia Pacific 2016 CONFERENCE & EXHIBITION

WEDNESDAY 24 FEBRUARY

- 07:00** **Conference Registration, Coffee Service & Open Exhibition**
Sabah & Selangor Foyer
-
- 07:00** **Speaker Briefing**
(Speakers, Moderators and Session Chairs only)
Sabah Room
-
- 08:30** **Welcome & Introduction**
Mike DuBose, Vice President - International Development, IADC
Sabah Room
-
- 08:40** **Keynote Presentation**
Datuk Mohd Anuar Taib, Senior Vice President, Upstream Malaysia, PETRONAS
-
- 09:00** **Update IADC Southeast Asia Chapter**
Manav Kumar, Chairman Southeast Asia Chapter; President & Director, Dynamic Drilling Holdco Pte Ltd
-
- 09:15** **IADC Regulatory Update**
Mark Denkowski, Executive Vice President - Operational Integrity, IADC
-
- 09:30** **Petronas Carigali HSE Case Guidelines for Effective Major Accident Hazard Prevention**
Stephen Oliver, Specialist Technical Safety (Drilling), Upstream HSE Operations, PETRONAS Carigali Sdn. Bhd.
- Petronas Carigali introduced the mandatory requirement for all operating rigs globally to have in place an HSE Case developed in line with IADC Guidelines for Rig HSE Cases. Through third party independent GAP analysis of HSE cases against IADC Guidelines performed in 2014 many common gaps were found. Petronas Carigali has developed its own Rig HSE Case Guideline for all rig contractors which clearly outlines Petronas Carigali HSE Case requirements as well as clarification as required on the IADC Guidelines. The aim of the presentation is to outline the common gaps found, the aim, scope and content of the Petronas Carigali HSE Case Guideline and the progress made towards effective operationalisation at all operating rigs.
-
- 10:00** **Networking Break & Open Exhibition**
Sabah & Selangor Foyer
-
- 10:30** **Practical Safety Initiatives**
Session Chair: Wayne Bauer, QHSE Manager-Shallow Water, Vantage Drilling Company

If Competence Is Achieved, Why Is It Not Demonstrated?

Andrew Knight, Senior Manager - Safety & Leadership, Asia Pacific, The REACH Group

If competence is achieved on paper, why is it often not demonstrated on the rig? Compliance of safety tools is common, so why is there still a gap between theoretical competency and safety performance? The purpose of this presentation is to expose the audience to proven methodologies to develop an interdependent safety culture – a culture where everybody looks out for one another and where effective frontline coaching and leadership translates into world class safety performance by design, not by luck. In other words, how an organisation can leverage its robust compliance to safety systems into real results.

Elevating the Role of People in Creating Safety Performance

Doug Mowle, Partner, JMJ Associates Asia Pacific (Pte.) Ltd.

Safety is Created by People: People make mistakes—a fact of life. So, basing safety management on the expectation that it's possible for people to never err is counterproductive. People are resourceful and responsible, and given the opportunity and support, they will develop and adapt work practices that are productive, safe and quality-improving. Participants will explore practices and methods for creating and harnessing wisdom and sharing it in times of stability and times of stress. Processes are created to support the development and transfer of tacit knowledge and practical wisdom, while at the same time catching the tendencies for bias and practical drift (the gap between procedure and work as actually performed), and correcting them.

An Ounce of Observation, a Pound of Prevention -A Barrier Based Approach to Identify Leading Indicators

Andrea Ronza, Group Manager - Technical Safety, Amar Ahluwalia, Marisa Pierce, William R. Nelson, DNV GL

Currently, many incidents or near misses are investigated using Root Cause Analysis (RCA) or other techniques. DNV GL applied a barrier-based bowtie diagram in a novel manner for a customer in the nuclear industry so that they could determine the weak links in their work practice procedures for reactor isolation during maintenance. This paper discusses the application of the same semi-quantitative methodology to evaluate offshore drilling incidents. Additionally, the paper demonstrates the visual effectiveness of a bowtie to summarize the results of reviewing multiple incidents in order to identify common factors contributing to incidents and near misses and assess the priorities for strengthening or adding barriers.

12:00 Luncheon & Open Exhibition

Selangor Room

13:30 Panel Discussion: Maintaining HSE Standards with New Small Budgets and a New Environment

Moderator: Alain Moonen, Manager Well Safety, Shell Integrated Gas

In a world of lower oil prices, the industry is forced to adapt to a new environment of constrained budgets, reduced activity levels and organizational changes. These new conditions cause great uncertainty in the workforce, and could easily have a negative effect on Health Safety and

Environment performance. This session discusses the insights and responses of both operators and contractors, to minimize impact of this changing environment in order to maintain Health Safety and Environment standards and performance.

- Scott Dennon, Integrated Gas Assist & Assure Team Lead, Shell
- Irlan Amir, Vice President HSE Asia Pacific, Schlumberger
- Gareth Butler, QHSE Manager, Malaysia, SapuraKencana Drilling
- Gagan Singhal, Area Manager, NABORS Drilling

15:00 **Coffee Break & Open Exhibition**
Sabah & Selangor Foyer

15:30 **HSE Management**
Session Chair: Greg O'Neill, Vice President-QHSE, Dynamic Drilling

Risk Assessments in Motion: Tracking Barrier Performance

Jasper Smit, Product Manager and Professional Services, CGE Risk Management Solutions

A risk assessment is not a static picture, it is constantly in motion. How barrier-based audits can be used to track barrier performance changes over time will be discussed. Some practical examples of how this can work will be shown. The benefits of this approach are described as well as how this can be used to proactively manage barriers.

Which Leaders will Actually Lead their Organization to Zero Harm

Ellen Downs, VP Business Development, Asia Pacific, DEKRA Insight

There are very specific things that zero harm leaders do. They may not be what you think. Drawing on the experience of over 7,000 leaders and 500 leadership teams, this talk outlines what distinguishes leaders of zero harm performers from leaders of average companies.

A Brief Description of Health Risk Assessment Program as Part of SHE Management System

Fitria Nurbaidah, Industrial Hygiene Specialist, PT Apexindo Pratama Duta

Health Risk Assessment (HRA) is performed to identify, evaluate, and control the health hazards and risks associated with drilling operations. Hazards becoming a main concern to be identified and assessed during performing HRA are: 1) Physical hazard: Noise, Vibration, Heat Stress; 2) Chemical hazard: Dust, Fume, Vapor; 3) Ergonomics: Manual handling, awkward position; 4) Biological; 5) Psychosocial. Several methods were performed to gain adequate data before the risk assessment phase such as observation through survey, interview with the crew, monitoring of medical records (health surveillance), and environmental and personal exposure measurement.

17:00-18:00 **Welcoming Reception & Open Exhibition**
Sabah & Selangor Foyer

THURSDAY 25 FEBRUARY

07:30 **Conference Registration, Coffee Service & Open Exhibition**
Sabah & Selangor Foyer

08:30 **Welcome & Introduction**
Chit Hlaing, Assistant Regional Director - Asia Pacific, IADC
Sabah Room

08:40 **Keynote Presentation to be invited**

09:00 **Addressing the Drilling Industry Competency Challenge**

Mark Denkowski, Executive Vice President - Operational Integrity, IADC

In these uncertain times the oil and gas industry faces a unique set of challenges when it comes to its current and future workforce. Modern roles are expanding, and the upcoming upturn will introduce a large number of new hires into the industry. New technologies are constantly developed, and drilling environments are getting more challenging. Going forward, how do we ensure the competence of the oil and gas workforce? IADC believes that by working together as an industry to develop and maintain Knowledge, Skill, and Ability (KSA) competencies, we will build a solid foundation for enhancing the performance of our people. Better performance leads to reduction in costs, greater safety for our personnel, operational integrity of equipment, and protection of the environment, which, in turn, allows us to maintain our license to operate.

09:30 **Workforce Development & Training**

Session Chair: Ahmad Nahrawi bin Mohd, Head, Wells Competency Assurance, Wells Department, Technical Global Division, PETRONAS

Significant Impacts of an Integrated Training Program to Build All Rounded Drilling Engineers in PETRONAS Malaysia

Ilen Kardani, Manager, Halliburton, Nurlili Elilza Bt A Jalil, Wells Program Manager, Joseph Ngieng Ngiik Kiek, Petronas Carigali, Nur Iman B Muhammad, Petronas Technical Training Sdn Bhd

The presentation begins with an overview of the boom of the oil and gas industry, which triggered the high demand for competent workforces, then continues with a discussion of the consequences of not having sufficient talent to meet the business growth demands as well as the inherent problems associated with the situation. PCSB's initiative to nurture internal employees and provide a self-sustained talent supply is described in detail from background, objectives, planning, implementation of the ARD program, and evaluation of the results. In conclusion, the presentation shows the numbers of professional engineers graduated from the program and the cost savings realized by reducing dependence on high-cost freelance consultants.

Achieving Operational Excellence through Competency-Based Training and Performance Assessments

Michael Fry, President, Deepwater Subsea

In a world where regulatory compliance and competency assurance go hand in hand we need to look at a different approach to training and assessing today's worker. In this presentation we will demonstrate innovative ways to address the knowledge gap in the workplace through competency-based education and performance-based assessments and address the following key question: "Do years on the job really mean someone is competent?"

10:30 **Networking Break & Open Exhibition**
Sabah & Selangor Foyer

11:00 **Panel Session: Understanding Dropped Objects**
Moderator: Joachim van der Meulen, Marketing & Sales Manager, Lloyd's Register Energy - Drilling

During the latest industry boom, a greater awareness of dropped objects developed. Solutions like more detailed third party inspections, advanced secondary securing devices and specialist tools-at-height were implemented. Companies were prepared to allocate substantial resources to address the issue. The sky seemed to be the limit, and nothing should drop from it. With the new oil reality, the industry is scrambling to cost optimize on every front, and scrutinising every dollar spend for effectiveness and value for money. Are we continuing to learn and achieve a greater understanding of DROPS, or are we risking to lose focus and drop the proverbial ball?

- Odis Cobb, Far East / Oceania Regional – HSEQ Manager, Noble Drilling International
- Sarah Molyneux, Well Engineering Team Lead DW, Shell
- Weng Fei Leong, Upstream Process Safety Director, Baker Hughes
- Bo Johansen, HSEQ Manager, Maersk Drilling

12:30 Luncheon & Open Exhibition

Selangor Room

14:00 New Technology

Session Chair: Keith Kotval, HSE Coordinator, Japan Drilling

Capability and Impact of a Well Intervention (Wireline) Simulator

George Redpath, Senior Well Engineer Staff Development (CWI), Shell, Will Baker, Engineering Manager, Drilling Systems (UK) Ltd., Benoit Barbier, Drilling Systems (UK) Ltd, Stanley Poh, Sarawak Shell

The concept of the Well Intervention (Wireline) Simulator is similar to Coil Tubing simulators developed in the 90's. It includes an Operators Control console, Touch Screens & Cyber Chair, incorporating the visual world associated with wireline operations. An effective means to transfer knowledge on the hazards and principles of wireline operations. High degree of interaction is required, providing hands-on experience. The simulator reacts & responds to downhole operations based on student input. It provides a focus on contingency training associated with well control, and associated hazards. Subsurface fluid, depth characteristics & malfunctions can be altered by the instructor, challenging the student on various downhole operations.

Disruptive Technologies in a Changing Landscape - Next Generation Unmanned Aerial System for Safety Inspection in a Cost Effective Way

Chris Chung, Head Strategic Research, Lloyd's Register Global Technology Centre; Joachim van der Meulen, Lloyd's Register Energy Drilling

Unmanned Aerial Systems (UAS), also known as drones, have seen rapid transformation in the past decade from what was largely a technology used in the defence industry, to adaptation and innovation for personal and corporate use. The selection of UAS craft available for commercial applications, rapidly reducing cost, improved sensing and storage capabilities have stimulated innovation and application in many industries. In a Joint Industry Project (JIP) led by Lloyd's Register and in collaboration with key partners – oil major, UAS service provider and shipyard, to conduct a technology pilot to examine the safety and commercial benefits of this technology through different use

cases. A specific use case that would be of great interest and value to IADC members would be the use of Unmanned Systems for DROPS inspections typically performed by rope access personnel requiring asset downtime.

15:30 Adjourn

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

Influencing Human Performance and Reliability in a Challenging Market

Edward McCullough, Director Senior Partner, Optimus Seventh Generation Ltd

How do we motivate the decision making and behaviours of people to influence our safety culture in a time where we need to do "more for less"? This presentation will discuss how safe outcomes in a dynamic environment can be achieved through the creation of a "Culture of Care" and it's underlying principle of safety being the presence of barriers not the absence of incidents.

Mind the Gap - Feedback on Bowtie Risk Assessment Using Incident Analyses

Joep Winters, Consultant, CGE Risk Management Solutions B.V.

Although barriers are identified and analyzed in bowtie risk assessment, incidents and near misses do occur. Scenario-based Incident Registration (SIR) uses relevant scenarios from a bowtie to interrogate barriers to capture critical incident information in a uniform and structured way. This information is automatically linked back to the underlying bowtie to visualise incident information. This feedback information can in turn be used to update the bowtie risk analysis or share lessons learned with other locations within an organization. SIR aims to support oil & gas organisations in gathering incident information in a uniform and insightful way, to increase learning and prevent future incidents.

Our Journey to Change through Safety IMS Programs

Ichu Rebullo, Region QHSE Manager, Tasman Oil Tools FZE

The journey to change through adopting several safety improvement programs that we believed that will be able to benefit all industries is described. It's simple and basic from the toolbox talk, safety meeting, step back 5x5, the only difference of this is through the acknowledging this responsibility that each staff will need to partake.

CONFERENCE HOTEL INFORMATION

Shangri-La Hotel
11 Jalan Sultan Ismail,
Bukit Bintang,
50250 Kuala Lumpur,
Wilayah Persekutuan
Malaysia
Phone: +60 3-2032 2388
Website: www.shangri-la.com/kualalumpur/shangrila

Room Rates: Single RM495++ / Double RM545++ inclusive of breakfast and hotel WiFi, excluding 6% tax and 10% service charge.

Reservations: IADC has a negotiated room block until 9 February 2016. Please mention IADC to book your room against the negotiated room rate.



REGISTRATION

www.iadc.org/event/asia-pacific-hset-2016

EXHIBITORS

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

- Aberdeen Drilling International
- CGE Risk Management Solutions
- Drilling Systems (UK) Ltd
- Dropsafe
- EHS Insight
- Lloyd's Register Energy - Drilling
- Marex Marine + Risk Consultancy
- Optimus Seventh Generation
- Stopdrop Tooling
- The REACH Group

Exhibition and Sponsorship opportunities are still available! Please contact europe@iadc.org / +31.24.6752252 for more information.

CONFERENCE PROGRAM COMMITTEE

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

- Wayne Bauer, Vantage Drilling
- Graham Buchan, Songa Opus Offshore Drilling
- Peter Cunnion, Northern Offshore
- Aminiudin Hambali, UMW Oil & Gas
- Mike Holmes, Transocean
- David Johnson, Diamond Offshore
- Keith Kotval, Japan Drilling
- Joachim van der Meulen, Lloyd's Register Energy - Drilling
- Alain Moonen, Shell
- Ahmad Nahrawi bin Mohd, PETRONAS
- Greg O'Neill, Dynamic Drilling
- Gagan Singhal, Nabors Drilling
- Chit Hlaing, IADC
- Derek Morrow, IADC