



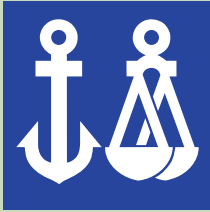
IADC
DRILLING HSE

ASIA PACIFIC 2012

CONFERENCE & EXHIBITION

25-26 April 2012
Marina Bay Sands Expo &
Convention Center, Singapore

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*"PROCESS SAFETY: KEEPING
LITTLE THINGS FROM
BECOMING BIG PROBLEMS"*

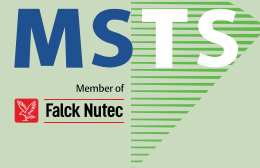
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WEDNESDAY, 25 APRIL 2012

07.30 CONFERENCE REGISTRATION, COFFEE SERVICE & OPEN EXHIBITION

Sponsored by: Ensign International Energy Services
Orchid Ballroom 4201A-4303

08.30 WELCOMING REMARKS

Orchid Ballroom 4204-4305

08.40 KEYNOTE PRESENTATION

Datuk George Ling Kien Sing, Drilling Division Advisor,
Petronas Carigali Sdn. Bhd.

09.00 SAFETY CULTURE

Session Chair: Larry Holloway, Operations Manager,
Atwood Offshore Drilling Ltd.

Behavioral Safety in Practice and its Link to Process Safety

Mark Greenhow, QHSE Director, Northern Offshore

After the unfortunate Texas City and Macondo disasters, companies are striving to pay more attention to processes. This paper firstly explains what behavioural safety is, what the six behavioural traps are and how this knowledge is applied in practice. Secondly, it will be shown how some of the everyday systems we already have in place to help people work safely are, in fact, behavioural tools. With a behavioural perspective on those systems we can use them even more effectively. This presentation will examine the link between behavioural safety and process safety and pose some questions that may take us further along the road of better understanding of behaviours and safety.

From Research to Practice: A Story of an Actionable Safety Leading Indicator Index

Joe Stough, VP of Innovation Technologies, IHS, Inc.

A group of global energy companies has been working on a research initiative with a common mission to find an actionable leading indicator index to drive safety and eventually overall sustainability performance. This group has been collaborating to provide a large multi-year data set, which contains millions of data records from events such as incidents, investigations, near misses, audits, observations, assessments, and many other routine field-level activities. This paper will review the leading indicator research findings drawn from analyzing this large energy industry data set revealing the key components of an actionable leading index which has been found to be uniquely strong in organizations who continue to sustain top-level safety lagging performance.

We Have Our HSE Case – Now What?

Thomas Helmer, Head of Corporate Sustainability – QM/HSE,
Senior Director, Maersk Drilling

Rigs are often designed before safety cases are developed. Reverse engineering is then used to verify that effective barriers are in place to manage major hazards. Maintenance Management Systems are often developed just before or sometimes after rigs leave construction yards. A key challenge facing our industry is how to verify barrier health systematically during the operations phase. This presentation reviews the challenge and presents best-in-class life cycle expectations for managing Safety Critical Barriers. The aim is to lay the foundation for a best practice guide supplementing the current IADC HSE Case standard.

10.30 NETWORKING BREAK & OPEN EXHIBITION

Sponsored by: Ensign International Energy Services

11.00 PROCESS SAFETY

Moderator: Scott Dennon, UIA Wells Regional HSE
Advisor, Sarawak Shell Berhad

Post Macondo, the focus has been on Process Safety (PS). We all know what Recordable Case Frequency Rates and LTI's mean with respect to Personal Safety. However, what do we measure for PS and what does it mean? We've also heard a lot about "Mindful Leadership" and "Chronic Unease". What do these terms mean and how to implement them? This panel discussion will ask these questions and more to uncover what the Majors are doing and what it all means.

- Arthur Dutton, HSE Manager, Operations, Atwood Oceanics
- Datuk George Ling Kien Sing, Drilling Division Advisor, Petronas Carigali Sdn. Bhd.
- James Brown, Head of Section, Det Norske Veritas Pte Ltd
- George Barry, Regional Manager Asia Pacific, Petrotechnics

12.30 LUNCHEON & OPEN EXHIBITION

Melati Ballroom 4002-4103

14.00 CONTROLLING ENERGY SOURCES AT THE WORK SITE

Session Chair: Dave Weatherly, Vice President – QHSE,
Vantage Drilling

Energy – We All Need It – We All Work with It – Every Day! Manage It!

David Grant, HSE Manager, Ensign International Energy Services

The HRP Process is logical, efficient and systematic in the identification of energy (hazards), and how we go about eliminating, controlling or protecting individuals from a potential release of energy. Combining the HRP Process in the development of the JSA builds competency within the workforce. With energy sources being present in all work-places and at home, what we are instilling in our employees, is that all incidents originate from an uncontrolled release of energy – identify the energy, manage it and no one needs to be hurt.

Maersk – Drops Best Practice

David Woodruff, HSE Advisor, Maersk Drilling

Best practices in preventing drops incidents onboard Jack Up drilling rig will be shared. A multi prong approach will be given including identifying high risk areas (red zones), involving crew in declaring red zone on their work areas, proving right tools for working aloft, and promoting drops awareness.

Dropped Objects Prevention – Perspective of an Oilfield Services Company

Weng Fei Leong, HSE Director, Ahmad Hafeez Ramli, Baker Hughes

Dropped object prevention (DROPS) initiatives started in the North Sea in the 1980s as part of a Step Change initiative to tackle the high number of dropped object incidents in the North Sea. In the industry today, the DROPS initiative is still largely dependent on the drive and focus given by operators and major drilling contractors. This presentation will examine the focus on DROPS from the perspective of an oilfield services company. Strategies and challenges of implementing an effective DROPS program in an oilfield services company environment will be discussed and examples of programs and initiatives will also be shared.

15.30 NETWORKING BREAK & OPEN EXHIBITION

Sponsored by: Ensign International Energy Services

16.00 HEALTH & HUMAN FACTORS

Session Chair: Keith Kotval, HSQE Coordinator, Japan Drilling Company

'Well at Work' – A Drilling Contractor's Approach to Workforce Wellness

John Karish, Director SHE, EnSCO plc

The preliminary results of Phase 1 of a three phase program to support a cultural change regarding the personal health and wellness of our employees are outlined.

Fatigue Risk Management Systems, Applying New Industrial Standards to Improve Occupational Health and Safety in E & P Operations

Bill Sirois, Sr. Vice President & COO, Circadian Technologies, Inc.

There are operational necessities and considerable business advantages to running E&P operations non-stop, 24 /7. There are also significant costs, risks and liabilities due to fatigue-related human error, born of the inherent biological incompatibilities of shiftwork. Human physiology is not designed to sustain alertness levels and optimal performance during long or extended work periods, rotating work schedules, and/or night shifts. The quality-critical and safety-sensitive jobs in our industry rely on people being at their best regardless of the hours worked or the time of day or night. This session will provide scientific data on new fatigue management standards that now provide proven methodologies for managing fatigue and maximizing human performance.

Redefining Professionalism through Standardization... Human Factors Improved through Decades of Lessons Learned from Commercial Aviation

Ronnie "Ronoo" Monsour, Safety Manager and American Airlines Mishap Specialist, Melissa Bascle, Check-6 International, "Billy Mac" Perry, Check-6 International and American Airlines

It's not "IF" the human will fail but WHEN the human will fail? Through years of commercial aviation mishaps around human error, lessons learned have resulted in saved lives and extraordinary precision. This is due to industry standardization and a defined checklist culture. The underlying theme is professionalism through standardization – standardization of leadership actions and work methodology. It focuses on your most vulnerable, yet predictable resource, your people.

17.30 WELCOMING RECEPTION & OPEN EXHIBITION

THURSDAY, 26 APRIL 2012

07.30 CONFERENCE REGISTRATION, COFFEE SERVICE & OPEN EXHIBITION

Sponsored by: EnSCO plc
Orchid Ballroom 4201A-4303

08.30 WELCOMING REMARKS

Orchid Ballroom 4204-4305

08.35 SPECIAL PRESENTATION

Session Chair: Wayne Bauer, Principal Consultant HSE, RPS Australia Asia Pacific

Virtual Presence: The Way to Go...Virtually!

Landale Cranfield, UIA Regional Wells Skillpool Advisor, Sarawak Shell Berhad

"The Big Crew Change" is coming. The loss of experience, knowledge and expertise will be immense. Virtual Presence (VP) may offer a solution. Imagine the situation – an experienced guy in the office can dial and see the make-up of specialized equipment thousands of miles away. Imagine a help line available 24 hours a day for anything from well control to work at height. No travel. Lower risk. Better use

of expertise. This presentation will detail how Shell is using VP now to assist training, planning and execution of real time projects in the real world...virtually!

09.30 TRAINING FACILITIES

Session Chair: Wayne Bauer, Principal Consultant HSE, RPS Australia Asia Pacific

Training and Competency Center in Malaysia

Martin Weber, Training and Development Manager, Transocean

Setting up a new training center is a challenge on many levels, so why do it? With an increased focus from contractors, it makes sense to have your training center in a good location that will effectively serve your customs, hence the relocating the center close to one of our operational hub.

10.00 NETWORKING BREAK & OPEN EXHIBITION

Sponsored by: EnSCO plc

10.30 COMMUNICATIONS, SUPERVISION, LEADERSHIP, AND HSE MANAGEMENT

Session Chair: Graham Buchan, Business Development Manager, Halliburton Far East Pte Ltd

DOIRC: an Effective Communication Tool in Improving Drilling Safety Culture

Mustapha Nasreddine Boucif, Senior HSE Advisor, Adel Mohammed Al Hammadi, Chris Kuyken, Abu Dhabi Company for Onshore Oil Operations (ADCO)

ADCO's Drilling Division and its contractors have managed to reach a world class performance in HSE for the past three years and recorded the lowest Lost Time Injury Frequency (0.09 LTIF) in ADCO's Drilling Division history and the longest time without LTI. DOIRC (Drilling Operations Incident Review Committee) program improved subsequently both vertical (ADCO management and rig site) and horizontal (ADCO and its contractors) communication and was a key factor in setting in place an effective 360° communication resulting in a world class performance.

HSE Management at Drilling Rigs and Their Components – Upcoming Challenges and Demands

Thomas Kipker, Product Manager, Bentec Drilling & Oilfield Systems

Why is ergonomic design so important for a safe drilling rig? What is the context between poor ergonomics and rig safety? We show, by using practical examples how it is possible to increase rig and operation ergonomics and reducing for example noise emissions by using newest technology. Opportunities and threads of automation will be presented.

Building a Positive Safety Culture

Venugopal Pavadai, QHSE Manager, Harris Hurst, Weatherford Asia Pacific Pte. Ltd.

After implementing the QHSE participation process in Singapore our positive outcome ratio (Leading Indicators) improved from 6.46 (2008) to 23 (2010). After 3 years of having participation targets for all employees, the Weatherford HSE culture seems to have turned to a point that staff is no longer asking if they are going to have a target, but what their targets will be for the next year.

Software for Ex (Hazardous Area, items) Inspections

Tony Scott, General Manager, OCS Group

New innovative software for engineering inspections is the way forward for ease of use and accuracy in critical areas. Management of areas with potentially explosive atmospheres is a crucial aspect of the safety management program for any company or facility having such defined areas. This presentation will show the need for proper identification & safety management of these areas, as well as identify the applicable standards which should be followed to operate as safely as possible within such areas.

12.30 LUNCHEON & OPEN EXHIBITION
Melati Ballroom 4002-4103

14.00 ORGANIZATIONAL CULTURE: IT'S IMPACT ON INDIVIDUAL BEHAVIOR AND DECISION MAKING
Moderator: John Karish, Director SHE, Enesco plc

'Normalization of deviance' is a long-term phenomenon in which individuals or teams repeatedly accept a lower standard of performance until that lower standard becomes the norm. This can be manifest by:

- Past successes create a climate of complacency
- Known equipment defects are tolerated
- Near misses demonstrate robustness of system, not impending failures
- Pressure to operate is perceived by the workforce
- Concerns about operations are shielded from executive management

This panel will explore the culture that has created this behavior in the past in order to prevent it from occurring in the future.

- **Scott Presley**, Corporate SHE, Enesco plc
- **Ricky Yu**, General Manager, BST, Singapore
- **Grant Vidrine**, VP, HSSE/Operational Assurance, Talisman Energy, International Operations East
- **George Siokos**, Strategy & Change Management Advisor, Intertek Consulting & Training

15.30 NETWORKING BREAK & OPEN EXHIBITION
Sponsored by: Enesco plc

16.00 RISK ASSESSMENT
Session Chair: David Grant, HSE Manager, Ensign International Energy Services

Practical Understanding and Application of the Psychology of Safety

Mike Merritt, Manager QHSE, Transocean Drilling Sdn. Bhd.

This presentation will share some of the speakers' positions and practical application of the Psychology of Safety toward risk reduction and reduction of at risk behaviors.

Work Bowties – Using BowTies for Task Risk Assessment
Jonathan Stolk, Innovations Manager, Pieter Nederveen, CGE Risk Management Solutions

A new way of Task Risk Assessment is now being done with the BowTie methodology. With this presentation, you will learn how we have developed this new method. The Work Bowtie solution makes the Bowtie concept very useful for operations. Employees without thorough knowledge of the BowTie methodology can apply it to increase the safety of their tasks.

Linking the Design Process with Worksite Safety
Michael Fleming, Principal Consultant, Decision Point Associates, Inc.

Reducing workplace risk requires accurate hazard recognition that can be applied in the design of processes, equipment, and facilities, and in daily field operations. Reduction of future workplace risk is possible if the end-user's needs are addressed during the design and redesign phases of a project. The challenge is how to build hazard recognition competence among design personnel that addresses worksite personnel risks and larger scale process risks. We will examine how to connect engineers and workers using a systematic hazard recognition process – the key to successful prevention through design.

17.30 CLOSING REMARKS

Unassigned paper of note: The following paper proposal will be included in the conference if a scheduled paper becomes unavailable. In addition, this presentation will be made available in the IADC conference proceedings, should the author desire so.

Introducing a Step Change in Work Environment and Safety for Personnel in the Mud Processing Area on Offshore and Onshore Installations Utilizing a New Enclosed, Non Vibrating Fluid Management System
Asbjorn Kroken, VP Engineer Marketing & Sales, Jan Kristian Vasshus, Cubility

This intelligent system utilizes integrated shale conveyor technology, vacuum system, cuttings transport and cleaning package, real-time monitoring systems, filtration medium failure detection, touch screen controls and automation components. It operates cleanly and safely without high g-forces, degradation of cuttings and fluid vapor pollution associated with conventional technology.

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Negotiated Room Rates: Atrium Deluxe Room, SGD 360.00++ excl. breakfast.

The IADC room block will expire **26 March 2012**. Please make your room reservations directly with the hotel and be sure to mention IADC to obtain the negotiated rate or use the hotel reservation form.

EXHIBITORS

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

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|---------------------------------|----------------------------------|------------------------------|
| • AMOT | • Dropsafe | • MSTs, member of |
| • CGE Risk Management Solutions | • EHS Insight | Falck Nutec |
| • Check-6 | • Equilibria Services Ltd | • OCS Group |
| • DNV Software | • K2 Specialist Services Pte Ltd | • Petrofac Training Services |
| • Drilling Systems (UK) Ltd. | • Marex Marine & Safety Services | • RPS Group |
| | | • Stopdrop Tooling Ltd |

Exhibition space is still available. For more information, please contact Anouk van de Water, anouk.vandewater@iadc.org or call +31 24 675 22 52.

PROGRAM COMMITTEE MEMBERS

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

- | | | | |
|---|---|---|--|
| • Wayne Bauer, RPS Group | • David Grant, Ensign International Energy Services | • Benny Margawijaya, PT Apexindo Pratama Duta TBK | • Michael Watters, Mermaid Maritime Plc |
| • Graham Buchan, Halliburton Far East Pte. Ltd. | • Adrian Gray, Aban Offshore Limited | • Mike Merritt, Transocean Drilling Sdn. Bhd. | • Dave Weatherly, Vantage Drilling Company |
| • Bill Ceppi, Hercules Offshore | • Larry Holloway, Atwood Offshore Drilling Ltd. | • Novianwan Prasetyo, Chevron Jakarta | • Chit Hlaing, IADC |
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REGISTRATION

Online registration is available at: www.iadc.org/conferences/Asia_Pacific_HSE_2012

