



## **April 25: Training and Workshop Day**

**07.00: Conference Registration Opens**

**07.00–08.45: Coffee Available in the Workshop Area (Beachwood Suite)**

**08.45: Offshore Network Welcome:**

Tommy Angell, *Director, Offshore Network*

### **Workshop One: Well P&A**

**09.00–10.00 P&A: Preparing for the Unexpected**

- Explore unique “surprises” including intersected wells, re-pressured wells, failed P&As to understand the implications for your future P&As and workovers
- Consider the non-technical surprises in areas such as regulation, legal, and financial
- Address getting your team and contractors ready for such surprises with a good mindset and approach
- Analyse the technical issues that have led to problems P&As in the past

Drew Hunger, *VP of Strategic Business Development, Cochon Properties LLC*

### **Workshop Two: North Sea Regulations**

**10.00-11.00: Regulations: Challenging Regulations & Current Practices**

- Review the current regulatory guidelines for the NCS and UKCS and the traditional approaches to well work and P&A that are followed in each region
- Challenge current regulatory practices with new techniques that are backed up by scientifically valid alternative methodologies
- Review case studies from the NCS where well intervention and P&A regulations have been successfully challenged to offer more effective well work

Celine Vercoglio, *Manager - Northern Europe, Oxand*

**11.00-11.30: Coffee Break in the Technology Showcase Hall**

### **Workshop Three: Plug Setting**

**11.30-12.30: Wireline Plug Setting**

- Examine the history and development of well intervention methodologies and the results of the most recent multi-set plug and EMT campaigns to benchmark current efficiencies
- Experience a full demonstration of the ‘torcmethod’ and operate the actual plug setting tools in the workshop to see how new wireline efficiencies can be achieved
- Come together and discuss the impact new technology can offer for wireline operations and the benefits of adopting new methodologies in the industry

Thomas Bergan Johansen, *CEO, E Plug*

**12.30pm–2.00: Networking Lunch Break in the Technology Showcase Hall**



### **2.00-4.30: Simulation Training Sessions (Technology Showcase Hall and Simulator Room)**

During this section of the workshop attendees will be broken into four groups based on the colour of your badge. The training simulators will run simultaneously with each group occupying one of the four Training Stations. Each group will have 30 minutes to spend on each simulator, after 30 minutes a bell will sound and you will move onto the next station. A coffee break will take place after the first hour.

#### **Training Station One: Situational Training**

- Review the design of a workover campaign on a table-top simulator and focus on identifying issues, risks and potential hazards that must be mitigated

Hosted by **Marketec**

#### **Training Station Two: Plug Setting Training**

- Execute conventional plug setting operations and try new methods of setting plugs to identify the best ways of mitigating risk and driving efficiency

Hosted by **E Plug**

### **3.00pm-3.30: Coffee Break in the Workshop Area**

#### **Training Station Three: Team Performance**

- As a crew where each participant is given a specific role, test your communication and leadership as the team progress through a workover scenario which encounters significant issues

Hosted by **Marketec**

#### **Training Station Four: Golf Simulator**

- We invite all members of your team to take on our golf simulator and try to win prizes for 'closest to the pin', 'longest drive' and managing other hazards

Hosted by **Offshore Network**

### **4.45-6.30: Prize Giving and Pub Quiz (Beachwood Suite)**

- Prizes will be awarded for stand-out performances from the simulator training sessions. Then in your teams you will take on Offshore Network's Pub Quiz!

### **6.30: End of Conference Day One**

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## **April 26 – Keynote Day**

### **07.00: Conference Registration Opens**

### **07.00–08.40: Coffee Available in the Technology Showcase Hall**

#### **08.40: Offshore Network Welcome:**

Tommy Angell, *Director, Offshore Network*

#### **08.50: Chairman's Welcome Address**

Martijn Koppert, CEO, **BargeMaster**

Tom Brighton, *Principal CWI Manager, Shell*



### **9.00: Capturing the Full Opportunity from Well Intervention in Today's North Sea**

- Highlight exactly how the downturn affected the opportunity for well interventions in the North Sea
- Share some of the lessons from within and beyond the North Sea
- Outline the successful strategies operators can utilize to capture the remaining potential

Dan Cole, *General Manager - Energy Insights, McKinsey&Company*

### **9.30: ITF – Preparing for Abandonment in Today's North Sea**

- Identify the main abandonment challenges you should be considering today in order to develop an effective end of life strategy that minimise your future liability
- Review how the ITF are working to collaboratively facilitate technology development and deployment for through tubing logging, sealant placement, alternative plugs, cutting and casing/tubing removal
- Analyse some of the specific advanced technology initiatives that the ITF are promoting to increase the technical success rate of operations and reducing costs

Lisa Hutchison, *Technology Analyst, Industry Technology Facilitator*

### **10.00: Breaking Silos - Demonstrating Quantifiable Effectiveness for Operators**

- Examine the key changes to operating models that offer a unique cross discipline approach with demonstrable benefits for independent and major operating companies alike
- Focus on the cost efficient increments intervention provides, noting the criticality of leveraging the range of technology to generate wider uses and achieve greater volumes
- Examine the necessity of establishing immediate and quantifiable value from every intervention programme and the resulting expected increase in activity if this value case is established

Tom Brighton, *Principal CWI Manager, Shell*

### **10.30-11.00: Coffee Break in the Technology Showcase Hall**

#### **11.00: Intelligent Field Development - The Impact to Well Interventions**

- Understand why Nexen has chosen intelligent completions and how the reservoir influences economic recovery from the field
- Analyse fibre optics and proactive reservoir management and understand the impact on well operability and productivity
- Consider how intelligent field development has led to less well interventions, but not totally eliminated their need

Ken Macrae, *Senior Completion Engineer, Nexen*

#### **11.30: Case Study: Riser Based Coiled Tubing**

- Receive an overview of Shell's subsea well intervention programme, noting the goals of the project and why coiled tubing was selected as the technical application
- See how the chosen technology, vessel and riser based process collectively optimized efficiency to increase project certainty
- Hear the results of the project, lessons learned and how this has aided future projects for Shell

Adam Drummond, *C&WI Engineer - LWIV, Shell*

#### **12.00: Case Study: The Application of Coilhose in a Subsea Well Intervention**

- Review the background of the Balloch P18well to understand why a subsea intervention was necessary and how the aggressive 4 month schedule from planning to completion, including equipment fabrication and testing, was designed and delivered
- Examine why the new coilhose technology was selected and tested, noting how it allows deployment with slick line equipment but still enables pumping giving operations flexibility and efficiency
- Outline the results of the job including a breakdown of the total time spent slickline and coilhose to benchmark the efficiency of this innovative project

Marie Morkved, *Head of Production Technology, Maersk Oil*



#### **12.45-1.45: High Performance Sealing and Reliable Recovery**

- Discuss reliability and performance limitations of traditional downhole retrievable plugs and packers
- Highlight the requirement for new sealing technologies
- Introduce Peak Well Systems, a Schlumberger Company's new MetaPlex ISO 14310 V0 retrievable seal system
- Demonstrate recent advances in the technology and discuss field test progress

Hosted by Gus Brown, *Engineering Development Manager, Schlumberger*

#### **12.30-2.00: Networking Lunch Break**

##### **2.00: Case Study: Integrated Approach to Sand Management and Completion Evaluation**

- Examine the lean processes used to establish a technically viable sand management and downhole evaluation solution that offers long-term value
- Discover how Dong Energy's geo-mechanical model analysis defined the optimised operating envelope for well start up, production efficiency and shut in
- See why multiple production logs deployed across the screens delivered a correlating three-phase inflow profile, which effectively identified anomalies

Zach Ruslan, *Senior Production Technologist, Dong Energy*

##### **2.30: Maximising the Effectiveness of Well Stimulation Through the Application of Downhole Video Analytics**

- Identify the key challenges of well stimulation operations and the specific risks, constraints and complexities faced by operators late-life assets
- Understand the concept of video analytics and learn how advanced, integrated video systems have risen to the challenges of today's information needs
- Demonstrate how the application of these real-time and near-time solutions enables decisive, effective well interventions

Tobben Tymons, *Sales & Marketing Manager - Eastern Hemisphere, EV Cam*

##### **3.00: Case Study: Sump Pile Cleanout**

- See how Repsol developed a new commercial model for the 2016 sump pile cleanout project by focussing exclusively on local companies to optimise efficiency
- Analyse how the utilisation of saturation diving services for complex works, including the isolation of the sump pile, improved project effectiveness
- Explore why high pressure equipment, solvents and nitrogen technology was employed for the clean out and how this mix of services minimised the risk of sheens

Frederico Artes, *Production Engineering Manager, Repsol*

Pablo Medina, *Production Engineer, Repsol*

#### **3.30-4.00: Coffee Break in the Technology Showcase Hall**

##### **4.00: Case Stories - Reducing Cost and Risk with New Methodologies**

- Access new ways of operating tools on electric wireline, enabling operators to perform multiple plug settings in one run
- Battle scale and corrosion with technology designed to be used in the most challenging environments
- See how real time data at surface provides additional information to offer a direct reduction in risk

Hein Andre Langåker, *Global Business Development Manager, E Plug*



#### **4.30: Development of Commercial Models to Suit the Current Environment**

- Review the progress Halliburton have made in working with the service industry to provide greater service and cost efficiency for a range of well intervention activities in mature basins
- Discuss workover and intervention projects that utilise a new commercial model, showing the importance of developing new methodologies that address market constraints
- Hear results from these case histories and note the value realised by the operator, which have encouraged more effective workovers on mature North Sea assets

George Walker, *UK Late Life Manager*, **Halliburton**

#### **5.00: Chairman's Closing Address:**

Tom Brighton, *Principal CWI Manager*, **Shell**

#### **5.15-7.30: Raffle Draw and Networking Drinks in the Technology Showcase Hall**

#### **7.30: End of Conference Day Two**

### **April 27: Track One – Well P&A**

#### **08.00: Conference Registration Opens**

#### **08.00–08.40: Coffee Available in the Technology Showcase Hall**

#### **08.50: Offshore Network Welcome:**

Sam Scarpa, *Project Manager*, **Offshore Network**

#### **08.55: Chairman's Welcome Address**

Drew Hunger, *VP of Business Development*, **Cochon Properties**

Stuart Wordsworth, *P&A Strategy and Liaison*, **Repsol Sinopec Resources UK Ltd**

#### **9.00: Case Study: Murchison Field P&A Programme**

- Hear how CNRI planned for a two year multiple well plugging & abandoning campaign in the Murchison field in the East Shetland Basin and understand lessons learned
- Review the approach CNRI took to plugging and abandoning the large volume of wells, including chosen technology and processes
- Analyse the results of the campaign, including key lessons learnt which drove efficiencies throughout the project

James Richards, *P&A Team Lead*, **CNR International**

#### **9.30: Panel Session: How Can We Introduce Specific P&A Technology?**

- Explore the pros and cons of innovation at a strategic level to understand the benefits of R&D and discuss the role operators should play in developing new technology
- Discuss challenges of platform and subsea abandonments and understand how new technologies can reshape the P&A market by offering cost effective and efficient alternatives
- Review specific emerging technologies such as riserless CT, composite pipes and cement alternatives to understand the applications for North Sea assets

Moderated by Damien Bassant, *Completions Superintendent*, **DEA Group**

Andrew Hood, *Engineering Supervisor*, *UK well P&A*, **ConocoPhillips**

Phil Bosworth, *Subsea Intervention Program Manager*, **Oceaneering**

#### **10.30-11.00: Coffee Break**



### **11.00: Riserless Well Intervention Toolbox Enabling Coiled Tubing Operations and Full Well P&A**

- Discuss a new Open Water Coiled Tubing (OWCT) system development and understand the application for your mature wells
- Analyse a new predictive CT management software developed specifically for OWCT and understand how it identifies and evaluates risks associated with OWCT operations
- Discuss OWCT's unique capabilities and how it can be deployed from a variety of vessels with other equipment from a riserless intervention toolbox to greatly reduce the cost of well P&A's

Phil Bosworth, *Subsea Intervention Program Manager*, **Oceaneering**

### **11.30: Overview of Inflatable Technology**

- Understand when and where inflatable technology can be applied to achieve cost effective well intervention for your North Sea assets
- Explore how inflatable solutions can add value to improve efficiency during intervention and plugging & abandonment operations
- Demonstrate how versatile field proven solutions can be adapted to meet challenging P&A projects as they evolve

John Stewart, *Sales Director – Europe, Africa & Middle East*, **TAM International**

### **12.00: Well Suspension and Abandonment – an update on current operations**

- Hear a summary of recent well abandonments and grasp how a return to thru-tubing cementing led to enhanced efficiencies
- Discuss shallow water and lightweight SIL applications with simultaneous diving operations can be used to provide maximum flexibility when performing P&A operations
- Uncover Helix's Riserless Open water Abandonment Module coming to the market and consider how this riserless methodology will apply to upper abandonments

Neil Greig, *Sales Manager*, **Helix**

### **12.30-2.00: Networking Lunch Break**

#### **2.00: Case Study: Hydraulic Workover**

- Hear how proven hydraulic workover technology and 'out of the box' thinking enabled a huge expansion to the scope of applications, whilst comfortably working within the technical limits of the technology
- Access project details of a recent P&A campaign using HWO, demonstrating how the technology for this project allowed the type of flexibility usually reserved for a rig, for a small platform asset
- Examine how expanding the applications of HWO technology has given greater confidence in the width of services, resulting in greater demand across Shell's North Sea platform assets

Mickey Freeman, *HWO Team Leader*, **Shell**

#### **2.30: Hydraulic Workover techniques to reduce P&A costs**

- Successful P&A operations in the North Sea using hydraulic workover techniques
- Review the versatility and flexibility of new hydraulic workover units and why this is key for successful and cost efficient P&A's
- Access cost comparison models for the different P&A methodologies

Stefan von der Heide, *Engineering Team Leader*, **Balance Point Control**



### **3.00: Fluid Versatility & Enhanced Mechanical Properties Offer Compelling Benefits for Lower Reservoir Abandonment**

- Explore the history of the use of epoxy resins vs. cement as well as the versatility and limitations of fluids to grasp how these offer compelling benefits for lower reservoir P&A
- Uncover mechanical properties and evaluation techniques to understand how changing the nature of the bonded interfaces can eliminate weak points for hydraulic isolation
- Explain and visualize the testing procedures utilized to meet industry requests regarding material integrity and extended environmental exposure

Travis Baughman, *Technical Sales Manager*, **Wild Well Control**

### **3.30-4.00: Coffee Break in the Technology Showcase Hall**

#### **4.00: Life of Field Solution**

- Review the methodology and techniques being applied by Halliburton to offer a life of field solution which covers ultra-late life mature fields transitioning into decommissioning
- Discuss case example of how the model would be applied based on recent project experience and examples
- Understand how various contracting models can be implemented to this model to offer cost reductions through the project

Struan Urquhart, *P&A Engineer*, **Halliburton**

#### **4.30: Reducing Risk with New Technology Introduction**

- Review the current Norwegian Continental Shelf P&A liability and address the challenges created by significant technology gaps that must be overcome
- Mark the scope of P&A work that could be addressed by current RLWI technologies if traditional processes and procedures are challenged
- See why new technology introduction is critical to reducing cost, improving HSE procedures and offering a viable solution to complicated well categories

Oddbjorn Bjerkvik, *Chief Engineer*, **TechnipFMC**

### **5:00: Chairman's Closing Address: Drew Hunger, VP of Business Development, Cochon Properties**

### **5.10: End of Conference Day Three**

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## **April 27: Track Two – Intervention Methods**

### **08.00: Conference Registration Opens**

### **08.00–08.50: Coffee Available in the Technology Showcase Hall**

#### **08.55: Offshore Network Welcome:**

Tommy Angell, *Director*, **Offshore Network**

#### **08.55: Chairman's Welcome Address:**

Iain Morrice, *Global Business Manager*, **Island Offshore**

### **09.00: Integrity Decision Making**

- Identify why cognitive and social skills are critical to reduce error, enhance safety and increase programme efficiency, noting where other industries now focus on these elements
- Focus on critical decision making, examining the underlying processes and showing where some of the error traps lie
- Explain how thinking skills can be affected by communication within wells teams

Rhona Flin, *Professor of Industrial Psychology*, **Robert Gordon University**

### **09.30 Panel: What Next for Vessels in the North Sea?**

- Examine the technical capabilities of North Sea vessels to understand which rigless activities can be economically achieved in the current climate
- Consider how recent projects have proven new technical capabilities of vessel technology and what this means for your intervention and integrity programmes
- Discuss what technology developments and contractual frameworks are required to continue expanding the reach of subsea well intervention

Moderated by Thomas Litterick, Senior Subsea Well Intervention Engineer, **Chevron**

Øyvind Jensen, *Manager Drilling & Well Subsea Well Intervention*, **Statoil**

Raphael Denis, *Deputy Business Unit Manager Oil & Gas*, **EverSea NV**

Iain Morrice, *Global Business Manager*, **Island Offshore**

Tom Bryce, *Marketing Director*, **Enpro Subsea**

### **10.30: Coffee Break in the Technology Showcase Hall**

### **11.00: Inwell Applications for Distributed Fibre Optic Sensing**

- Hear how the latest developments in distributed acoustic sensing are offering conventional sensor performance, simultaneously at every point along the wellbore
- Discuss an intervention case history which enabled the detection of leaks behind casing to understand the benefits of the newest fibre optic sensing technology
- Receive an overview of measurement opportunities throughout the life of the well including applications for seismic, microseismic, production profiling, and leak detection

Craig Milne, *VP Oil & Gas*, **Silixa**

### **11.30 Case Study: Result Validation of Downhole Ultrasonic and Caliper Log**

- Analyse the new technology maturation process used to evaluate the internal and external tubular condition, helping to develop the asset's late life production strategy
- Access the ultrasonic tubular scanner selected to provide high azimuthal resolution 360 degree images, effectively identifying wear, erosion, corrosion and mechanical damage
- See how the log identified an optimised risk mitigation action plan for a 2016 workover, noting how logged data was also used to evaluate the remaining well completion life span

Mohamad Yazid, *Principal Production Technologist*, **Dong Energy**

### **12.00: Metrol Wireless Telemetry Offers Significant Cost Savings in P&A Scenarios**

- Discuss how Metrol's telemetry system has been adapted for use in all stages of a well's lifecycle for reservoir and well integrity monitoring across multiple zones or laterals, in well construction, drilling, well testing, well suspension, completion, TA & P&A environments
- Analyse how latest improvements to the telemetry system allows traditional abandonment techniques to be fast-tracked, saving rig/vessel days, whilst providing direct feedback on barrier integrity

Ben Taylor, *Global Projects Manager*, **Metrol**

### **12.30-2.00: Networking Lunch Break**

### **2.00: Reducing Cost Per Intervention with Collapse Resistant Jumpers**

- Understand how composite pipe longevity and easy deployment can shorten schedules and lower cost per intervention
- Explore how the smooth bore allows for effective bullheading of the reservoir, leading to additional barrels and increased recovery ratios
- Evaluate how the composite pipe's collapse resistance, flexibility and light weight minimises risk in subsea intervention

Martin van Onna, *Chief Commercial Officer, Airborne Oil & Gas*

### **2.30: Extending Inspection & Testing Frequency**

- Looking at subsea well integrity testing of valves
- Impact on safety, environmental and financial risk

Ali Mirza, *Senior Consultant, Oxand*

### **3.00: Case Study: Subsurface Safety Valve Reactivation using Wireline Applied Stimulation Pulse (WASP®) Technology**

- Learn about Wireline Applied Stimulation Pulse (WASP®) technology and how this unique approach can increase well intervention effectiveness
- Discover how it has been successfully applied to well intervention operations in the North Sea
- Explore how this technology can be applied to bring production and well integrity benefits to your wells

Michael Sutcliffe, *Business Development Manager, North Sea, Blue Spark Energy*

### **3.30: Ageing Platform Wells – Investigation and Remediation**

- Understand how to execute an effective load assessment of the structural casings of aging wells
- Takeaway the latest methods of corrosion inspection and discover how to ensure the results are dependable
- Review the most appropriate critical well identification & remediation techniques that can be applied to your well programs

David Roberts, *Technical Manager - Well Engineering, 2H Offshore*

### **4.00: Chairman's Closing Address:**

Iain Morrice, *Global Business Manager, Island Offshore*

### **4.15: End of Conference Day Three**