Develop a well intervention strategy that integrates new technology to ensure integrity, increase production and prepare for P&A

- MARKET OVERVIEW
- WELL INTEGRITY
- REGULATORY ENVIRONMENT
- P&A & DECOMMISSIONING
- PRODUCTION ENHANCEMENT
- TECHNOLOGY DEVELOPMENTS

KEYNOTE SPEAKERS INCLUDE

Ihechi Ojukwu
Deepwater Completion Engineer
Chevron Nigeria

Anthony Oyewole
Production Engineering Supervisor
Chevron Nigeria

Ifeanyi Ugbor
DW Completions & Well Intervention Engineer
Shell Nigeria

Geraldo Ramos
Senior Production Engineer
Sonangol

Edward Kalu
DGM Well Completion, Subsea & Intervention
TOTAL Nigeria

Elike Mawuli
Well Engineering Manager
Tullow Oil

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REGISTER TODAY >>
MARKET OVERVIEW: Explore West African offshore opportunities & how expanding the scope of work & equipment availability can improve well intervention economics

REGULATORY ENVIRONMENT: Discuss global approaches to well intervention and P&A regulations to highlight ways of developing appropriate local standards and best practice

PRODUCTION ENHANCEMENT: Hear how a pro-active intervention strategy making use of innovative rigless technologies can increase well stock value and minimize NPT

WELL INTEGRITY & RESTORATION: Analyze projects including hydrate & scale remediation as well as annular, cement and casing restoration to grasp regional well integrity best practice

P&A & DECOMMISSIONING: Explore how contracting models, technology developments & cost estimation methodology for mature fields can help ensure reliable & cost-effective P&A

TECHNOLOGY DEVELOPMENTS: Discover how innovative approaches to e-line, slickline and CT can help you get the most out of your West African shallow and deepwater assets

“Very informative sessions along with solid networking opportunities.”

Chris James, SSWI Advisor, Chevron

REGISTER TODAY >>
We've come a long way since our first OWI conference in Aberdeen in 2014. Having run events in the North Sea, Gulf of Mexico, Asia Pacific and the Middle East in 2017, we're now excited to be entering a new dynamic market with the first forum dedicated to well intervention in the West Coast of Africa.

Through more than 30 hours of primary research, we've uncovered the highest priority challenges impacting the planning & execution of well intervention and P&A projects from Mauritania to Angola. By engaging with regional operators and international technology & service providers, we have put together a program that tackles issues such as high mobilisation costs, the availability of equipment and vessels, and well integrity and P&A challenges.

OWI WCA intends to not only bring together leading West African stakeholders, but also targeted case studies and updates on ground breaking campaigns from across the industry. By showcasing regional and international projects as well as innovative processes and technologies, the workshop will provide operators with the information needed to more efficiently increase production and retire their platform and subsea assets.

Welcome to OWI WCA 2018

West Africa's First Offshore Well Intervention Workshop

SAM SCARPA
Head of Conferences
Offshore Network Ltd.
T: +44 (0) 203 793 8800
E: sscarpa@offsnet.com

"Really interesting presentations. Good networking”

Geoffrey Tiberghien, Well Integrity Engineer, TOTAL
**Speakers**

"Excellent presentations, excellent discussions, great mix of attendance."

Matthias Koenig, Subsea Intervention Engineer, BP

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<td>Ihechi Ojukwu</td>
<td>Kelechi Victor</td>
<td>Ian Donald</td>
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<td>Deepwater Completion Engineer</td>
<td>Drilling and Completion Engineer</td>
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<td>Chevron Nigeria</td>
<td>Nigerian Agip Exploration Limited</td>
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<td>Anthony Oyewole</td>
<td>Edward Kalu</td>
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<td>Chevron Nigeria</td>
<td>&amp; Intervention, TOTAL Nigeria</td>
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<td>Andres Esono Ngui Obono</td>
<td>Ifeanyi Ugbor</td>
<td>Phil Bosworth</td>
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<td>Wells Coordinator</td>
<td>DW Completions &amp; Well Intervention</td>
<td>Project Manager, Well Intervention</td>
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<td>Marathon EG Production Limited</td>
<td>Engineer</td>
<td>Oceaneering</td>
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<td>Geraldo Ramos</td>
<td>Elike Mawuli</td>
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<td>Senior Production Engineer</td>
<td>Well Engineering Manager</td>
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<tr>
<td>Alex Seinuah</td>
<td>Phil Bosworth</td>
<td>Seth Johnson</td>
<td>David Carr</td>
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<tr>
<td>Sr. Sales Account Manager</td>
<td>Project Manager, Well Intervention</td>
<td>Resident Engineer Ghana</td>
<td>Commercial VP</td>
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<td>Johnny Hicks</td>
<td>Martial Burguières</td>
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<td>Executive VP</td>
<td>VP of Operations</td>
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"Excellent presentations, excellent discussions, great mix of attendance."

Matthias Koenig, Subsea Intervention Engineer, BP
**Audience**

In 2017, the OWI series welcomed over 30% of operators globally. By focusing on recent well intervention and P&A projects, we ensure that the content remains technical and attracts the decision makers at the heart of well service departments. Below you can see a breakdown of our attendance:

<table>
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<tr>
<th>COMPANY TYPES</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Operators</td>
<td>33%</td>
</tr>
<tr>
<td>Downhole Tooling &amp; Sub-contractors</td>
<td>36%</td>
</tr>
<tr>
<td>Regulatory, Consultants &amp; Others</td>
<td>10%</td>
</tr>
<tr>
<td>Well Services and Vessels</td>
<td>21%</td>
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<th>JOB TITLES</th>
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<tr>
<td>Engineering</td>
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<tr>
<td>Business Development</td>
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<td>Managers</td>
<td>18%</td>
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<td>C-level</td>
<td>16%</td>
</tr>
<tr>
<td>Others</td>
<td>4%</td>
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SECTION 1: Market Overview & Regulatory Environment

Market Overview
- Get an overview of the West African intervention market and highlight regional challenges & opportunities for collaboration and increased activity
- Discuss regional approaches to well intervention and P&A regulations and highlight ways of developing local standards and best practice
- Consider how rethinking contractual models can mitigate customs & permitting issues as well as lower well intervention costs and ensure equipment availability

Well Intervention Economics Panel
- Examine how collaboration between operators can help expand the scope of work and improve well intervention economics
- Discuss how multi-well campaigns and early engagement with contractors on the availability of equipment can help minimize NPT and improve ROI
- Outline how operator engagement with technology providers can help bring about innovative methods that improve the efficiency of well intervention and P&A projects

Elike Mawuli, Well Engineering Manager, Tullow Oil
David Carr, Vice President – Commercial, Helix
Andres Esono Ngui Obono, Wells Coordinator, Marathon EG Production Limited

Development of a Bespoke Enhanced Oil Recovery (EOR) Technology
- Discuss a project aimed at screening reservoir candidates for EOR projects with specific focus on Angolan oilfields & how artificial intelligence based on Neuro-Fuzzy approach is used
- Hear how a special integrated multipurpose lab scale EOR rig has been developed to screen a wide range of EOR techniques and how preliminary results show that polymer, miscible gas and combustion are the most suitable techniques compared to CO2 and steam
- Show how EOR in Angola is critical to extracting remaining reserves and more efficient and economic than moving to the very remote areas like the deep and ultra-deep waters

Geraldo Ramos, Senior Production Engineer, Sonangol

SECTION 2: KEYNOTE CASE STUDIES

Deepwater Rigless Matrix Stimulation Job
- Review a successful deep offshore well lifting of a depleted reservoir with nitrified diesel displacement and gain from major lessons learned
- Discuss cost savings achieved in performing acid stimulation deep offshore from an FPSO with no rig, intervention vessel or coil tubing unit involved
- Analyse results of this cost effective lifting campaign of a producing well from depleting reservoir after being shut-in for acid stimulation

Kelechi Victor, Drilling and Completion Engineer, Nigerian Agip Exploration Limited

Bonga Field, Deepwater Nigeria LWI Case History
- Discuss the success of the first deep-water rigless intervention campaign in Bonga field using SILS and vessel of opportunity. Review the entire scope of work and demonstrate how this technology allows for a more cost effective solution in a deep water environment
- Highlight all the key learnings and best practices during the planning and execution phase of the project

Ifeanyi Ugbor, Deepwater Completions and Well Intervention Engineer, Shell Nigeria

Agbami Field, Deepwater Nigeria Acid Stimulation Case Study
- Share the success of a recent acid stimulation campaign in the Agbami field using a Multi-Purpose Supply Vessel [MPSV] and the tremendous execution efficiencies and cost saving advantages over a conventional rig
- Demonstrate the value of diligent data gathering and provide insights into a systematic, data driven candidate selection process
- Share lessons learned and best practices and demonstrate how the diligent and rigorous application of look backs and lessons learned resulted in outstanding results

Anthony Oyewole, DW Production Engineering Supervisor, Chevron Nigeria
Acid Stimulation Case Study
- Hear how a recent scheduled program of well stimulation using flexible downline led to optimized recovery offshore Nigeria
- Analyze why a standard ROV support vessel was used for effective production enhancement (stimulation) and interference testing
- Uncover why a flexible downline was used rather than coiled tubing to bullhead acid and discuss applications for your own well intervention projects

Edward Kalu, DGM Well Completion, Subsea & Intervention, TOTAL Nigeria

Successful Frac Pack of Subsea Well with Perforation Interval Separated by 60ft of Shale Case Study
- Discuss the challenges and assumptions in the job design and share interpretation of mini frac data relative to the initial design
- Receive an analysis of the job redesign and actual experience during the main frac and consider opportunities for your subsea projects
- Review the design and execution of the top off job to get good annular pack and share lessons learned and best practices

Ihechi Ojukwu, Deepwater Completions Engineer, Chevron Nigeria

Improvement of Sand Control Techniques
- Uncover an effective selection of sand control techniques to avoid sand production in oil wells and discuss opportunities for your West African assets
- Understand possible controls to be applied to wells already producing sand in order to reduce sand production to the lowest acceptable level

Kelechi Victor, Drilling and Completion Engineer, Nigerian Agip Exploration Limited

SECTION 3: RISERLESS WELL INTERVENTION

Riserless Intervention...The New Normal?
- Analyze the expansion of riserless capabilities in the subsea arena & understand the benefits these can bring to your intervention campaigns in terms of safety, cost savings & efficiency
- Highlight the role of resins in a riserless intervention operation to improve the performance of existing well architecture and enhancement of production profile
- Review a recent successful riserless well intervention using the 7Series to benefit from lessons learned and consider applications for your WCA deepwater projects

Martial Burguieres, VP Marine Well Services, Wild Well Control

Riserless Subsea Safety Valve Remediation
- Discuss how a vessel based riserless light well intervention was undertaken to open a down-hole safety valve which failed to re-open after a planned production curtailment
- Analyze why a RLWI option offered notable advantages including reduced personnel, limited NPT & less debris management issues to understand implications for your next subsea project
- Uncover how the intervention operation, which was the first of its kind in Nigerian waters, restored Oyo-8 to full production within allotted time and budget without any incidents

Iain Morrice, Global Business Manager, Island Offshore

“Value adding conference with a good variety of presentations given. Good choice of lunchtime session presentations. Great opportunity to network with colleagues, operators and service providers and explore new technology on the market”

Steven Low, Subsea Well Intervention Engineer, Chevron
SECTION 4: PRODUCTION ENHANCEMENT AND P&A TECHNOLOGY

Oil Intervention Services Case Reviews
- Discuss an offshore hydraulic well intervention and understand how the project increased efficiencies for the West African client
- Highlight a multiple flowline remediation campaign in the Gulf of Mexico which was mobilized onto vessel with pre-existing OII coil for greater customer cost efficiency
- Analyze a mechanical intervention production enhancement on a 9500psi well & discuss how existing capabilities are applied in new ways to develop capabilities & drive efficiencies

Phil Bosworth, Program Manager - Subsea Riserless Well Intervention, Oceaneering

One-Trip Subsea Cut & Pull P&A
- Uncover a proprietary rotational casing spear technology that doesn’t require a downhole motor and understand benefits for your deepwater abandonment
- Discuss how the spear can be set and unset multiple times and consider how this can significantly reduce Non-Productive Time on your subsea projects
- Analyze how the spear packoff runs right above the spear and enables circulation throughout the cutting process to increase the efficiency of your P&A campaign

Johnny Hicks, Vice President, WFR TOOLS

Production Optimisation Providing Enhanced Subsea Architecture Using Standard Trees & Manifolds
- Present the Enhanced Subsea Architecture with Standard Trees & Manifolds to provide life of Field production optimisation for Subsea Assets
- Discuss retrievable enhanced production solutions where a GOM client reduced project costs and schedule by over 35% compared to traditional methods
- Discuss a well stimulation project in West Africa which significantly increased production using a low-cost subsea hydraulic intervention module from a single vessel
- Demonstrate GoM flow assurance solutions using flow access modules at both ends of a single spur tieback, eliminating the need for a return flow loop & thus enabling a radically different development philosophy for the region

Ian Donald, Managing Director, Enpro Subsea

12-well RLWI Campaign
- Hear how a 12-well RLWI campaign in Australia proved efficiency and cost reductions can be achieved from a fully integrated RLWI system
- Discover how continuous improvement led to extremely efficient operations in a challenging region during the largest RLWI campaign performed outside the North Sea
- Learn about the additional workscopes performed by the vessel thanks to its comprehensive capabilities and flexibility to understand opportunities for your upcoming projects

Seth Johnson, Resident Engineer - Ghana, TechnipFMC

Fluid Intervention Solutions for Enhanced Production
- Discuss flowline remediation & well stimulation projects and grasp opportunities for your platform and subsea wells
- Increase flow assurance through hydrate removal to ensure the reliability of safety valves and casings for increased flowrates
- Understand how scale squeeze & acid stimulation campaigns can increase flowrates and improve ROI for your West African assets

Alex Seinuah, Sr. Sales Account Manager Subsea Services, Baker Hughes a GE Company

PLUS 2 ADDITIONAL WORKSHOPS

1. P&A Masterclass
   - Explore unique “surprises” including intersected wells, re-pressured wells & failed P&As to understand the implications for your future abandonment campaigns

2. WIMS
   - Ensure the safety of your crew, equipment & environment through an effective WIMS that centralizes information & tracks the efficiency of your well integrity program

“Eye Opening Presentations”

Yan Dong, Reservoir Engineering Lead, Repsol
Increase your exposure at OWI WCA

CONFIRMED SPONSORS AND EXHIBITORS

Production Optimisation  Integrated P&A  Wellbore Engineering Solutions  Riserless Intervention  Exhibitor

WHY SPONSOR?

Is your company taking advantage of well intervention opportunities offshore West Africa? Join us at OWI WCA if you are:

- A market leader and want to position yourself alongside major operators on the program
- A regional service provider seeking to reinforce your brand and win new business
- An established contractor looking to enter the West African market for the first time
- Recently completed a “first of a kind” project and would like to share your experience
- Developing a new, innovative technology that you would like to gain exposure for...

We can help you by providing:

- **BRAND EXPOSURE**: Position your brand as a leading intervention service provider through our website, social media groups, workshop brochure and onsite at OWI WCA
- **THOUGHT LEADERSHIP**: If you have an innovative story to tell, a unique service or ground-breaking technology, share it as a speaker at the workshop through a presentation or case study
- **NETWORKING**: As the centre stage of all networking breaks, our technology showcase hall will give exhibitors a physical location for prospective clients to find out about your services

"From an exhibitor perspective good attendance - Loads of follow up opportunities"

Tom Bryce, Marketing Director, Enpro Subsea

"I found the networking extremely beneficial and the presentations educational and informative"

Taylor Enze, Area Sales manager, Airborne Oil & Gas
Register for OWI WCA

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3 Email us directly at sales@offsnet.com with your chosen pass type

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• Networking drinks reception and luncheon
• Post conference proceedings

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• Access to VIP Champagne Reception
• Express registration

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Early Bird - Book by Feb 9th 2018 $1595
FULL PRICE $1995

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• Post conference proceedings

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