

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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Workshop Overview



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*

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Welcome to OWI 2018 WCA

West Africa's First Offshore Well Intervention Workshop

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.



SAM SCARPA

Head of Conferences
Offshore Network Ltd.

T: +44 (0) 203 793 8800

E: sscarpa@offsnet.com

*"Really interesting presentations.
Good networking"*

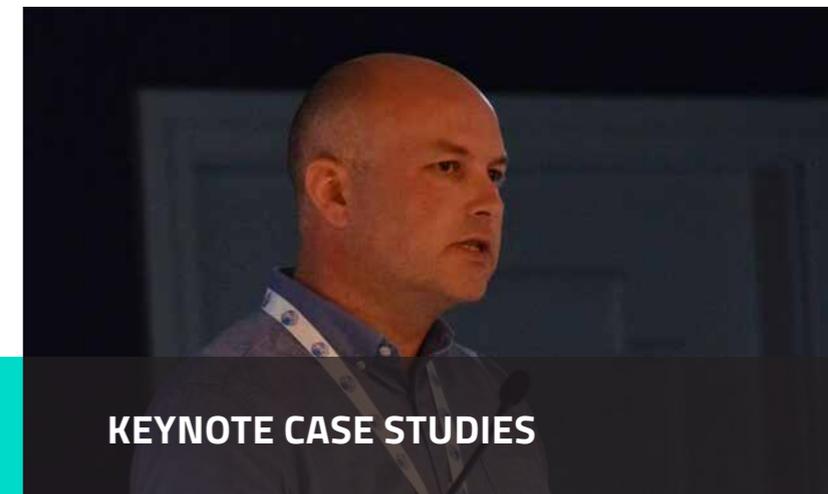
*Geoffrey Tiberghien,
Well Integrity Engineer, TOTAL*



ENGAGING PANELS



TECHNOLOGY SHOWCASE HALL



KEYNOTE CASE STUDIES

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KEYNOTE SPEAKERS - OPERATING COMPANIES



Ihechi Ojukwu
Deepwater Completion Engineer
Chevron Nigeria



Anthony Oyewole
Production Engineering Supervisor
Chevron Nigeria



Andres Esono Ngui Obono
Wells Coordinator
Marathon EG Production Limited



Kelechi Victor
Drilling and Completion Engineer
Nigerian Agip Exploration Limited



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

WELL SERVICE COMPANIES

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



Martial Burguieres
VP of Operations
Wild Well Control



Michael Rossing
Product Line Director, Bowen™
Intervention Tools
NOV Downhole



Rob Letona
Program Manager -Production
Enhancement, Oceaneering



Seth Johnson
Resident Engineer Ghana
TechnipFMC



WELL INTERVENTION TOPIC EXPERTS

Ian Donald
Managing Director
Enpro Subsea



Lars Kristiansen
Product Manager
Ardyne



Martin van Onna
Chief Commercial Officer
Airborne Oil & Gas



Ross Wickenheiser
International Business Development
Blue Spark Energy



VESSEL PROVIDERS

David Carr
Commercial VP
Helix Energy Group



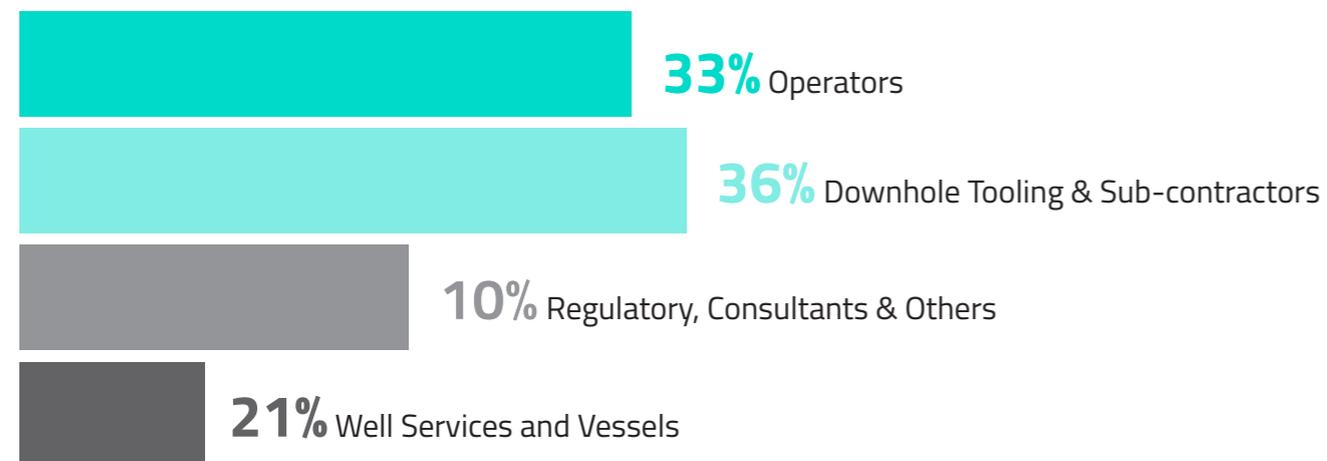
Iain Morrice
Global Business Manager
Island Offshore



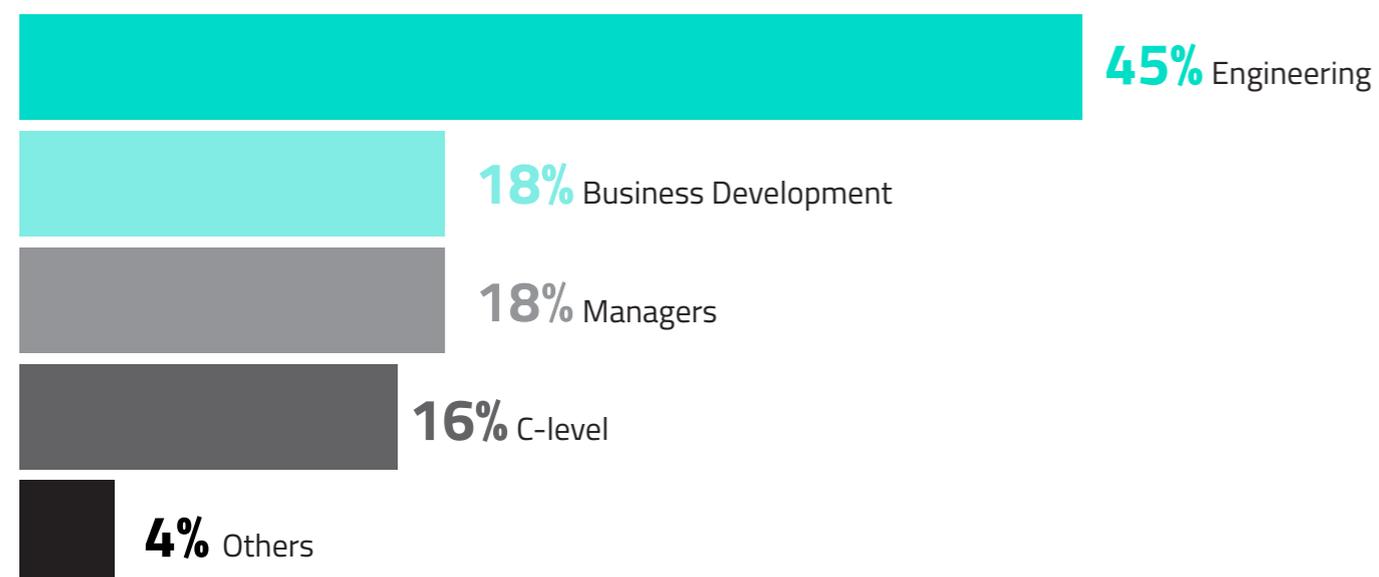
Audience

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:

COMPANY TYPES



JOB TITLES



“Great opportunity to network with colleagues, operators and service providers and explore new technology on the market”

Steven Low,
Subsea Well Intervention Engineer, Chevron



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OWI WCA Agenda

SECTION 1: Market Overview & Regulatory Environment

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**

OWI WCA Agenda

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**

"Value adding conference with excellent opportunity to hear about the latest technology, whilst networking with service companies and operators"

Dave Black, Well Integrity Team Leader, CNR International

"Well organised conference with a good variety of presentations given.

Good choice of lunchtime session presentations."

Steven Low, Subsea Well Intervention Engineer, Chevron

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**

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 Oll 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**

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**

OWI WCA Agenda

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 worksopes 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**

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**

Address Near Wellbore and Upper Completion Problems Using Wireline Applied Stimulation Pulsing (WASP®) Technology

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

Ross Wickenheiser, *International Business Development*, **Blue Spark Energy**

Ardyne's Casing Recovery Toolbox

- Understand the strategic drivers for a specialist approach to Casing Recovery
- Gain an overview of Ardyne's New Generation Casing Recovery Technology, including the TRIDENT System and the TITAN System
- Hear how the Casing Recovery Toolbox is saving 35% and more, on P&A and Slot Recovery operations

Lars Kristiansen, *Product Manager*, **Ardyne**

Evolving Well Abandonment

- Discuss how technology developments have led to improved cement bonds during P&A operations
- Analyse case studies where improved efficiencies have led to lower risk and lower costs
- Identify how NOV technology and services have led to less environmental impact during offshore abandonment operations

Michael Rossing, *Product Line Director*, **Bowen™ Intervention Tools**, **NOV Downhole**

"Eye Opening Presentations"

Yan Dong, Reservoir Engineering Lead, Repsol

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

Increase your exposure at OWI WCA

CONFIRMED SPONSORS AND EXHIBITORS

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Recovery Sponsor



Riserless
Intervention



Wellbore Technology
Sponsor



Exhibitor



Production
Optimisation



Integrated Well
Intervention Sponsor



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

Secure your place now and join confirmed attendees from



Register in 3 easy steps before all passes sell out!

- 1 Call us directly on US **+44 (0) 203 411 9184** to secure your place
- 2 Register online
- 3 Email us directly at **sales@offsnet.com** with your chosen pass type

PREMIUM PASS

Book before 12 January 2018 and Save \$800

What's Included:

- 2 day conference pass
- Access to technology showcase hall
- Networking drinks reception and luncheon
- Post conference proceedings

Additional Premium Pass Features:

- Preferential Access to Training Workshops
- Priority Conference Room Seating
- Access to VIP Champagne Reception
- Express registration

~~Super Early Bird - Book by Jan 12th 2018 \$1195~~

Early Bird - Book by Feb 9th 2018 **\$1595**

FULL PRICE **\$1995**

STANDARD PASS

Book before 12 January 2018 and Save \$800

What's Included:

- 2 day conference pass
- Access to technology showcase hall
- Networking drinks reception and luncheon
- Post conference proceedings

~~Super Early Bird - Book by Jan 12th 2018 \$1095~~

Early Bird - Book by Feb 9th 2018 **\$1495**

FULL PRICE **\$1895**

DATE & VENUE

March 7th & 8th 2018

Mövenpick Ambassador Hotel Accra

HOTEL DISCOUNT

Offshore Network have negotiated a discounted room rate for you to stay at the venue – this is extremely limited however so book today to ensure you get the best rate.

Please quote Offshore Network when booking

CONTACT US TODAY FOR GROUP DISCOUNTS

sscarpa@offsnet.com or call us at

+44 (0) 203 793 8800 before space runs out

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