SPE Subsea Well Intervention Symposium

7–9 August 2018  |  Galveston Convention Center
                |  Galveston, Texas, USA

www.spe.org/go/SubseaIntervention

Symposium Program

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Message from the Program Chairpersons

We are pleased to welcome you to the SPE Subsea Well Intervention Symposium.

We look forward to having two days of in-depth discussion and learning on new technology and techniques to improve production from subsea and deepwater wells, share the latest knowledge for rigless intervention and high-pressure subsea well intervention operations, and present case studies on subsea well plug and abandonment/decommissioning techniques, and integrated well operations. It will also present the latest regulatory trends for subsea well operations in the US, Brazil, and North Sea.

With the new economic reality, deepwater interventions have a key role to play in replacing reserves that are increasing in demand. Now, we look to the future for new opportunities and to getting back to business.

Having SPE organize the event has enabled us to attract more operators and other stakeholders than was previous possible. The symposium is going to feature speakers and excellent content that is going to wow our attendees!

On behalf of the program committee, thank you for attending, and enjoy the symposium!

Sincerely,

Michael Galiunas
BP
Program Co-chairperson

David Carr
Helix Energy Solutions Group
Program Co-chairperson

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Program Committee

Co-Chairpersons
Michael Galiunas, BP
David Carr, Helix Energy Solutions Group

Paul Barbre, BHP Billiton
Andrew Barry, Wild Well Control Inc.
David Brown, Opex Integrated Management LLC
Jason Dahlem, Hess Corporation
Jose Duenas, BP
Hakan Eser, Schlumberger Technology Corporation
John Felarca, BHP Billiton
Rob Hill, Aker Solutions
Colin Johnston, SeaNation LLC
Alexander Lawler, LLOG Exploration Co LLC
Matthew Lewis, TechnipFMC

Thomas Meyer, Bureau of Safety and Environmental Enforcement
Colin Nicol, Baker Hughes, a GE company
Mike Niewald, DOF Subsea
Barney Paternostro, LLOG Exploration Co LLC
Ryan Schmidt, TechnipFMC
Brian Skeels, TechnipFMC
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Matt Weinstock, Shell Oil Co.
James Wells, Marubeni Oil & Gas USA Inc.
Jennifer Williams, Helix Energy Solutions Group

About Society of Petroleum Engineers
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 158,000 members in 143 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.
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Tuesday Opening Reception and Symposium Bags

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DOF Subsea
### Schedule of Events

All events will be at the Galveston Island Convention Center unless otherwise noted.

#### Tuesday, 7 August

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>1230–1730</td>
<td><strong>Training Course: Introduction to Well Intervention Control Systems</strong></td>
<td>Yatch Room</td>
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<tr>
<td>1730–1900</td>
<td><strong>Exhibition</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td></td>
<td><strong>Opening Welcome Reception</strong></td>
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#### Wednesday, 8 August

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>0800–0900</td>
<td><strong>Networking Breakfast</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td>0800–1900</td>
<td><strong>Exhibition</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td>0900–1000</td>
<td><strong>Keynote Speaker:</strong> Scott A. Angelle, BSEE</td>
<td>Grand Ballroom A-B</td>
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<tr>
<td>1000–1030</td>
<td><strong>Coffee Break</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td>1030–1210</td>
<td><strong>Session 01:</strong> Regulatory</td>
<td>Grand Ballroom A-B</td>
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<tr>
<td>1210–1330</td>
<td><strong>Networking Luncheon</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td>1330-1400</td>
<td><strong>Knowledge Sharing ePosters</strong></td>
<td>Upstairs lobby</td>
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<tr>
<td>1400–1540</td>
<td><strong>Session 04:</strong> High Pressure Operations and Issues</td>
<td>Grand Ballroom A-B</td>
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<tr>
<td>1540-1610</td>
<td><strong>Coffee Break</strong></td>
<td>Upstairs Lobby</td>
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<tr>
<td>1610–1750</td>
<td><strong>Session 05:</strong> Application and Optimization of New Technology in the Well Intervention Space</td>
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<tr>
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<td>0800–1330</td>
<td><strong>Exhibition</strong></td>
<td>Exhibit Hall B</td>
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<tr>
<td>0915–1000</td>
<td><strong>Keynote Speaker:</strong> Emeka Emembolu, BP</td>
<td>Grand Ballroom A-B</td>
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<tr>
<td>1000–1030</td>
<td><strong>Coffee Break</strong></td>
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<td><strong>Panel Session:</strong> Are we getting ‘Bang for the Buck’ from Subsea Interventions?</td>
<td>Grand Ballroom A-B</td>
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<td><strong>Networking Luncheon and Symposium Excellence Award</strong></td>
<td>Exhibit Hall B</td>
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<tr>
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<td><strong>Knowledge Sharing ePosters</strong></td>
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General Information

Registration
Registration is located inside Exhibit Hall B.
Tuesday, 7 August ......................................................... 1100-1830
Wednesday, 8 August ................................................. 0730-1830
Thursday, 9 August ..................................................... 0800-1330

Exhibition Hours
Exhibition is located at Exhibit Hall B.
Tuesday, 7 August ........................................................ 1730-1900
Wednesday, 8 August .............................................. 0800-1900
Thursday, 9 August .................................................... 0800-1330

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Training Course

**Tuesday, 7 August | 1230–1730**

**Training Course: Introduction to Well Intervention Control Systems**

**Instructors:** Luis David, Homer Stewart

**Yatch Room**

This course will provide participants with an overview of Intervention Work-Over Control Systems and Equipment. Topics include:

- Introduction to IWC Equipment, Operations, and Architectures
- Introduction to Christmas Tree (Xtree) Types
- Introduction to Control Systems
- Concepts and Definitions
- Surface Implementation Methodologies
- Subsea Control Module/Assembly
- Data Communications
- Process Sensors
- Remotely Operated Vehicle (ROV)
- Case Study Scenarios

This course will award 0.4 CEUs (Continuing Education Units).

Keynote Session

**Wednesday, 8 August | 0900–1000**

**Keynote Speaker: Scott A. Angelle, Bureau of Safety and Environmental Enforcement (BSEE)**

Scott A. Angelle is Director, Bureau of Safety and Environmental Enforcement (BSEE), Department of the Interior.

He is responsible for promoting safety, protecting the environment and conserving resources through the regulatory oversight and enforcement of energy industry operations on the U.S. Outer Continental Shelf.

He joined the bureau on May 24, 2017, following more than 30 years of reforming agencies and organizations in both the public and private sectors. His career is characterized by a strong desire to achieve results that lead to greater success for the organizations he leads.
Session 01: Regulatory
1030–1210

Session Chairpersons: Thomas Meyer, Bureau of Safety and Environment Enforcement; Colin Johnston, SeaNation

The optimization of costs and procedures for subsea well operations within the boundaries of regulatory requirements is a challenge for operators and service providers. It is vital to align and assess new techniques and technologies within those requirements. All stakeholders must ensure they are in agreement with the methods and applications.

This session will provide the opportunity for open and frank discussions from experts involved with regulatory framework application including BSEE and third-party SMEs covering risk, commercial impact, and methods of alignment across regulators and industry parties. Understanding the engagement methods, as covered in this session, is key to successful application of operations.

Presentations
Ray Tommy Oskarsen, Add Energy
Overview of Offshore Operators Committee Subsea Leak Detection Work Group
Greg Southworth, OOC–Offshore Operators Committee
API 17G Design and Manufacture of Subsea Well Intervention Equipment 3rd Edition–Update
Mike Byrd, Byrd Energy Services
Using Wild Well's “Deep Range” Tool for Annular Isolation
Joe Savoy, Wild Well Control, Inc.

Session 02: Subsea Well Intervention Case Studies in the Gulf of Mexico
1320–1500

Session Chairpersons: Hakan Eser, Schlumberger; David Brown, Opex Integrated Management

This session will present recent examples on different subsea well interventions in the Gulf of Mexico, including well stimulation work done from vessels of opportunity, riser-based work, and IRS systems deployed from drill ships.

These case studies will describe the use of subsea intervention equipment and vessels through non-traditional means while showing a common thread.

Presentations
15K Intervention Riser System
David Morris, OneSubsea–Subsea Services Alliance

Deepwater Well Integrity Restoration
Michael Blackman, Shell

Q-5000: A Case Study in Modular Design
Lucy Pettitt-Schieber, BP

A Unique MSV-Based Coiled Tubing Intervention was Performed to Remediate Asphaltene Buildup in a Flowline
Galen Hebert, Halliburton

(Alternate) Open Water Riser Gap Analysis Methodology Saves Time, Minimizes Cost and Mitigates Risks
Mike Trevathan, Chevron
Technical Program

**Session 03: International Intervention Case Studies**

1530–1710

**Session Chairpersons:** Jason Dahlem, Hess; Matt Lewis, TechnipFMC

This session will focus on subsea intervention operations that have been executed in global production basins around the world. Local requirements and restrictions, as well as equipment and personnel availability can make operations in these environments challenging. Emphasis will be placed on presenting and discussing these challenges and the associated solutions, which were used to ensure successful intervention operations in these secluded conditions.

**Presentations**

- **Deepwater Decommissioning: What the O&G Industry Could Learn from the Pioneer Petronas Subsea Temporary Well Suspension Project in Mauritania**
  Koong Xin Yi, Syah Imran Mohamad, Petronas Mauritania

- **Case Study from Deep Water West of Africa: One Multipurpose Workover System**
  Kristian Stadsøy Grjotheim, Aker Solutions

- **Case Studies from Asia-Pacific: 2 Integrated RLWI Campaigns in Australia**
  Ryan Schmidt, TechnipFMC

- **A New Era for Subsea Well Intervention in Brazil and Innovative Integrated Tension Frame Enhances both Safety and Efficiency for Subsea Intervention Vessels in Brazil**
  Daniel Stuart, Helix

(Alternate) **Innovative Hydraulic Intervention using Patented Flow Access Technology - Case Study**

Ryan Sangster, Enpro-subsea

Keynote Session

**Thursday, 9 August | 0900–1000**

**Keynote Speaker: Emeka Emembolu, BP**

Emeka Emembolu is BP’s Gulf of Mexico Vice President for Reservoir Development.

During his 20 years with BP, Emeka has worked in a range of Petroleum, Reservoir Engineering and leadership positions on assets in the UK (offshore and onshore), Angola, Central Function, Alaska, Egypt, Algeria and his current role in the Gulf of Mexico.

Key leadership roles he has held in his career include VP, Reservoir Development - North Africa; VP, Reservoir Development - Functional Performance, and Manager Base Management - Alaska.
Panel Session: Are we getting ‘Bang for the Buck’ from Subsea Interventions?
1030–1200

**Moderators:** Matt Weinstock, Shell; Mike Galiunas, BP

This interactive panel session will bring together stakeholders from various aspects of the Subsea Well Intervention segment to discuss their drivers and tactics in the face of alternative investment options in the current commodity price environment, an over-supply of rigs and vessels, and balancing well integrity responsibilities versus production gains opportunities.

**Panelists:**
- Neil Crawford, Oceaneering
- Derek Newberry, Shell
- Barney Paternostro, LLOG Exploration
- Rafael Ramirez, Chevron
- William Turner, WoodMackenzie

Go to [PollEv.com/speprogram](http://PollEv.com/speprogram), using a mobile or electronic device, to ask your questions during this session. There is no need to download the app.

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Knowledge Sharing ePosters
1330–1400

**Session 04: High Pressure Operations and Issues**
1400–1540

**Session Chairpersons:** Ray Stawaisz, Chevron; Brian Skeels, TechnipFMC

This session will discuss the latest life of field advances and obstacles to progress HPHT subsea projects.

**Presentations**

- 20Ksi Landing String Development for Ultra-Deep Environment
  Jiju Ninan, Schlumberger

- Independent Third Party (I3P) Review of HPHT Product Development, an OEM perspective
  Srinivas Badam, TechnipFMC

- HPHT Subsea Equipment Design—Understanding Operational Limits
  Matt Vaclavik, Chevron ETC

- Evaluation of 15,000 psi Differential Pressure Rated Equipment for HPHT Applications in Gulf of Mexico
  Ryan Carlyle, Chevron
Session 05: Application and Optimization of New Technology in the Well Intervention Space
1610–1750
Session Chairpersons: Alex Lawler, LLOG Exploration; Dan Vela, Oceaneering

With deepwater activity showing signs of recovery, it is critical to discuss not only working “lower for longer”, but also “smarter for longer.” This session will drive the discussion around the application and optimization of new technologies in the well intervention space.

The session aims to cover:
• Explanation and advantages of new technology, assessing the problems to solve and improvements.
• Cost of adoption, including resources such as time and money.
• Sustainability - How does the solution drive “smart for longer” strategies?
• Current regulatory considerations and possible additional engagement

Presentations
Thru Tubing Sand Control Failure Remediation with the Use of Fiber Optic Coil Tubing, High Expansion Packers, and Topsides Processing System on a CAT-B unit
Ryan Anderson, Shell

Scale Removal Using Electro-hydraulic Technology
Steve Petten, Blue Spark Energy

Technical Development of Subsea Intervention Skids
Chris Hill, Nicole Marino, Oceaneering

Intervention Riser Operability and Mitigation Actions Improve Reliability, Safety and Efficiency during Loop Currents
Ryan Carlyle, Chevron

(Alternate) Design of a Coil Tubing String for Work in High Pressure Wells in Offshore Deep Water Stimulation Work
Emmanuel Seenath, BP

Exhibitors (as of 26 July 2018)

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Helix Energy Solutions is an international offshore energy services company that provides specialty services to the offshore energy industry, with a focus on well intervention and robotics operations.
**Exhibitors (as of 26 July 2018)**

### 106 Hornbeck Offshore

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www.spe.org/jpt

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### 402 Mohawk Energy

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Exhibitors (as of 26 July 2018)

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P: +44 01434 682505
www.osbit.com
Osbit designs and builds bespoke equipment for offshore oil & gas and renewable applications. The company specialises in tailoring its offering to suit each client and their operational application. Osbit has strong experience in providing a diverse range of back-deck well intervention equipment, for a variety of vessels.

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**307 Subsea Solutions**

16285 Park 10 Place 200
Houston, TX 77084 USA
P: 281-398-3317
F: 281-398-6317
www.subseasolutions.net

Subsea Solutions Intervention conducts independent third-party verifications of intervention well-control equipment, ensuring that your equipment is properly maintained and that any modifications or upgrades to the equipment conducted after delivery have not compromised the design or operations of the system.

**101 Welltec**

22440 Merchants Way
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P: 281-682-2821
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www.welltec.com

Welltec develops and provides well technology and solutions for the oil and gas industry. Our technology is dedicated to aid in optimizing the performance of reservoirs by providing the solutions to do so, both in the form of well completion technology and intervention solutions which ensure the well performance and integrity.

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Visit TAM in booth #301. Speak with our well intervention subject matter experts, and view a variety of tools on display.
Exhibit Floorplan

Lunch Area

Coffee Stations

EXIT

REGISTRATION

EXIT

EXIT
Notes
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