SPE Artificial Lift Conference and Exhibition–Americas

28-30 August 2018

The Waterway Marriott Hotel and Convention Center
The Woodlands, Texas, USA

go.spe.org/artificialift

Conference Program
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Sr. Director, Strategic Marketing & Innovation
512.486.0170
atreleaven@axip.com

John Snow
Sr. Manager, Strategic Business Development
918.519.5438
jsnow@axip.com
Dear Colleagues,

Welcome to the SPE Artificial Lift Conference and Exhibition—Americas!

The theme of this year’s conference is “Pushing the Limits of Artificial Lift.” The event seeks to establish a record of technologies and practices that are expanding the application range and reliability of artificial lift systems. This knowledge will be made available globally to industry professionals via OnePetro.

The conference will begin with panelists offering their own perspective on “Artificial Lift and Digital Oilfield.” I encourage attendees to share their own thoughts during that session’s question and answer period. At Tuesday’s Legends in Artificial Lift Awards luncheon, 2017 SPE President Janeen Judah will recognize and honor five outstanding individuals for their technical contribution to the artificial lift community. The keynote luncheons on Wednesday and Thursday will feature speakers from both ConocoPhillips and Occidental Petroleum, respectively, that you will not want to miss.

Remember to visit the sold-out exhibition featuring cutting-edge technology from leading companies from around the world.

I would like to thank the program committee for their work in putting together this great technical program. The people that work in artificial lift are the best at coming together to share new ideas and lessons learned.

On behalf of the program committee, thank you for attending this event, and enjoy the conference!

Sincerely,
Greg Stephenson
Program Committee Chairperson
Occidental Petroleum
Program Committee

**Program Chairperson**
Greg Stephenson  
*Occidental Petroleum*

**Program Vice Chairpersons**
Marcelo Hirschfeldt  
*Oil Production Consulting*
Anthony Allison  
*Occidental Petroleum*

**Electric Submersible Pumps Subcommittee**
**Chairperson:** Jeff Dwiggins  
*Artificial Lift Solutions Pte Ltd*

Diego Narvaez, *Schlumberger*
Robert Navo, *Baker Hughes, a GE Company*
Barry Nicholson, *Occidental Petroleum*
Peter Oyewole, *Proline Energy Resources*
Pedro Sanchez, *Schlumberger*
Lorne Simmons, *Borets*

**Gas Lift Subcommittee**
**Chairperson:** Rob Sutton, *Consultant*

Steve Pohler, *Pohler Consulting*
Rob Schott, *Flowco Production Solutions*

**Gas Well Deliquification Subcommittee**
**Chairperson:** Bill Hearn, *ConocoPhillips*

Gonzalo Perez Cometto, *Pan American Energy*
Barry Labrecque, *Shell Canada*

**Progressing Cavity Pumps Subcommittee**
**Chairperson:** Ken Saveth, *Baker Hughes, a GE Company*

Fernando Bertomeu, *Oil Production Consulting*
Laura Labrador, *Ecopetrol*
Jorge Robles, *C-FER Technologies*

**Sucker Rod Pump Subcommittee**
**Chairperson:** Mike Poythress, *ConocoPhillips*

Jake Taylor, *Anadarko*
Imran Hashim, *Newfield Exploration*
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In Fond Memory of Chip Ollre 1961-2018
His contributions to the artificial lift community will be remembered with the highest admiration.
# Schedule of Events (as of 07 August 2018)

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<td><strong>Keynote Luncheon: Unconventional Reservoirs - A Technology Driven Revolution of Enormous Scale and Global Impact</strong></td>
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<td>1200-1315</td>
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<tr>
<td>Dessert and Coffee on Exhibit Floor</td>
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<td>Coffee Break</td>
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<tr>
<td>Coffee Break</td>
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<tr>
<td><strong>Keynote Luncheon: Just Evacuate the Wellbore! Innovation is the Key to Doing the Impossible with Artificial Lift Daily in a Continuously Changing and Challenging Landscape</strong></td>
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<td>1200-1315</td>
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<tr>
<td>Coffee Break</td>
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General Information

Registration and Badge Pick-Up
Located in Town Center North Foyer, Level 1
Monday, 27 August 1300–1700
Tuesday, 28 August 0700–1700
Wednesday, 29 August 0700–1700

Located in Waterway Foyer
Thursday, 30 August 0700–1400

Exhibition
Located in Town Center North, Level 1
Tuesday, 28 August 1000–1830
Wednesday, 29 August 1000–1600

Speaker Check-In
Located in Cochran’s Crossing, Level 2. Speakers are requested to check in prior to reporting to their assigned session room.
Monday, 27 August 1500–1700
Tuesday, 28 August 0700–1730
Wednesday, 29 August 0730–1730
Thursday, 30 August 0730–1600

Coffee Breaks
Located on the exhibit floor or outside the technical session rooms.
Tuesday, 28 August and Wednesday, 29 August
0700–0830 | 1000–1030 | 1530–1600
Thursday, 30 August
0700–0830 | 1000–1030 | 1315–1400

Dessert and Coffee Breaks
Located in Town Center North, Level 1
Tuesday, 28 August and Wednesday, 29 August 1315–1400

Tuesday Night Welcome Reception
Located in Town Center North, Level 1
1730–1830

Tuesday Legends in Artificial Lift Awards Luncheon
Located on Waterway 1-3
1200–1315

Wednesday Keynote Luncheon
Located on Waterway 1-3
1200–1315

Thursday Keynote Luncheon
Located on Waterway 1-3
1200–1315

Wi-Fi Available in Session Rooms and Lobby Space
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Password: 2018alce

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If you are a Life Member or have already renewed your membership for 2019, thank you for your continued membership in SPE.
Plenary: Artificial Lift and the Digital Oilfield

Panelists will share how digital oilfield techniques and technologies are being applied to artificial lift systems. Topics covered during this session will include what solutions have been deployed today, the trade-offs between using solutions developed in-house vs. off-the-shelf products, and what new products and technologies are needed to make the next great leap in digital oilfield applications for artificial lift. This interactive session is sure to bring insight to how such a frequently discussed topic is actually being implemented today.

Tuesday, 28 August 2018 | 0830-1000 Waterway 4

Moderator

Anthony Paul Allison
Occidental Petroleum Corp.

Speakers

Atika Said Al-Bimani
Petroleum Development Oman

Melissa Folz
Oasis Petroleum Co.

Eugenio Ferrigno
YPF SA
When producing a horizontal well with a sucker rod pump, gas entering the pump may result in more than just inefficiencies; it may also lead to increased failure rates due to compression. The papers presented in this session will recommend both downhole design changes and changes to operational practices in an effort to reduce the negative impacts of gas entering the sucker rod pump.

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<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
| 1030  | 190938   | Evaluating Tailpipe Systems Designed to Optimize Artificial Lift Performance in Horizontal Wells  
C.R. Humphreys, B.N. Vangolen, A.P. Allison, D. Yin, C. Yicon, Occidental Petroleum Corp. |
| 1100  | 190942   | Quantitative Analysis of the Packer-Style Gas Separator Through Laboratory and Field Trials  
L. Thompson, A. Monk, G. Oddie, Schlumberger |
| 1130  | 190936   | Solving Gas Interference Issues with Sucker Rod Pumps in the Permian Basin  
A.P. Allison, C.F. Leal, M.R. Boland, Occidental Petroleum |
| Alternate  | 190958 | SRP Equipment Customization Creating Value by Increasing Run Life in a Low Oil Price Environment  
M. Hoy, OMV E&P; B. Kometer, OMV Austria E&P; P.C. Buerssner, OMV Petrom; G.A. Puscalau, Weatherford International; S. Eder, AC2T research |
| Alternate  | 190932 | Downhole Plunger Speed Study in Sucker Rod High GOR and High Friction Wells  
E. Ferrigno, D. El Khouri, YPF; G. Moreno, YPF Tecnologia |
Legends in Artificial Lift Awards Luncheon

Janeen Judah, 2017 President, Society of Petroleum Engineers will speak at the Legends luncheon and conduct the awards presentation for the 2018 recipients. SPE recognizes the importance of artificial lift to the industry and the valuable contributions of those who made their careers advancing the technology and transferring their knowledge to the next generation.

Tuesday, 28 August 2018 | 1200–1315

2018 Legends of Artificial Lift Award Recipients

Ken Decker
Cleon Dunham
Bill Lane

Tony Podio
Lyle Wilson
Technical Program (as of 07 August 2018)

O2 Electric Submersible Pumps I
Session Chairpersons: Jeff Dwiggins, Artificial Lift Solutions Pte Ltd; Keith Russell, Silixa

Looking for better economics for your ESP operations? This session will focus on the use of permanent magnet motor technology to reduce ESP power consumption and enable ESP installation in wells with smaller casing sizes.

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<th>Time</th>
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<td>1400</td>
<td>190934</td>
<td>Energy Management Applied to Electric Submersible Pumping (ESP)</td>
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<td>E.R. Martinez Villarreal, A.D. Caicedo, L. Paredes, Repsol; M. Guevara, E. Álvarez, Baker Hughes a GE company</td>
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<tr>
<td>1430</td>
<td>190951</td>
<td>Efficiency Study in Vizcacheras Field and Implementation of PMM Motors to Increase Production Capability</td>
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<td>A.L. Tiofio, J.J. Dotta, YPF S.A.; R.H. Teves, GE Oil &amp; Gas–Artificial Lift</td>
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<tr>
<td>1500</td>
<td>190960</td>
<td>Permanent Magnet Motors/Powder Metallurgy Pump Stages: Increasing Profit Margins, Reserves, and Economic Limits through Efficient ESP Design</td>
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<tr>
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<td>J. Lucas, Novomet USA; S.C. Donham, T. Wrobel, Merit Energy Company</td>
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O3 Gas Lift: Application in Unconventional Wells
Session Chairpersons: Steve Pohler, Pohler Consulting; Eduardo Pereyra, University of Tulsa

The production characteristics of unconventional wells pose special challenges for artificial lift systems. Gas lift, known for its flexibility, is well suited to this environment and has gained popularity in recent years. This session explores the fundamentals and applications of gas lift that lead to successful deployment in unconventional wells.

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<td>190923</td>
<td>Chamber Gas Lift in Horizontals</td>
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<tr>
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<td>C.N. Hardegree, B.A. Gerrard, S.L. Wildman, K.S. McKenzie, Occidental Oil and Gas Corp.</td>
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<tr>
<td>1630</td>
<td>190959</td>
<td>Life-of-Well Gas Lift Installations for Unconventional Resources</td>
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<td>1700</td>
<td>190965</td>
<td>End of Tubing and Packer Placement Effects on Gas Lift Operations in Toe Down Gas Wells</td>
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<tr>
<td></td>
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<td>J.V. Nair, E. Pereyra, C. Sarica, University of Tulsa</td>
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<tr>
<td>Alternate</td>
<td>190929</td>
<td>Gas Lift Annulus Pressure</td>
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<td>K.L. Decker, Retired; R.P. Sutton, Consultant</td>
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<tr>
<td>Alternate</td>
<td>190950</td>
<td>Impact of Gas Lift Design in Unconventional Wells–A Delaware Basin Operators Perspective</td>
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<tr>
<td></td>
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<td>S.K. Kannan, M. Boyer, J. Dufresne, Anadarko Petroleum Corp; L.E. Gonzalez, Xenon Lift Services</td>
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04 Gas Deliquification

Session Chairpersons: Bruce Gerrard, Occidental Petroleum; Barry Labrecque, Shell Canada

Lifting gas in unconventional wells is key to recognizing the entire value of the well. Typical challenges include determining liquid loading rates and velocities and applying the best artificial lift method to produce the well. This session will focus on understanding liquid loading and lifting liquid-loaded gassy shale wells effectively.

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<th>Time</th>
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| 0830  | 190921  | A Simple Critical Gas Velocity Equation as Direct Functions of Diameter and Inclination for Horizontal Well Liquid Loading Prediction: Theory and Extensive Field Validation  
A.S. Nagoo, Nagoo & Associates; P.M. Kulkarni, Equinor; C. Arnold, Escondido Resources; M. Dunham, Bravo Natural Resources; J. Sosa, Jones Energy; P.O. Oyewole, Proline Energy Resources |
| 0900  | 190947  | Unconventional Lift for Unconventional Wells  
B. Jackson, Tech–Flo Consulting |
| 0930  | 190930  | Novel Approach in Digital Diagnostic for Plunger Lift in Non Conventional Wells at Vaca Muerta  
J. Barros, YPF; J. Alvarez Claramunt, YPF SA; E. Ferrigno, YPF |
| Alternate | 190941 | Efficacy of Surfactants in Rich Gas Shale Wells  
Y. Alzhanov, University of Tulsa; H. Karami, University of Oklahoma; E. Pereyra, University of Tulsa; J.A. Gamboa, Chevron Corporation |
| Alternate | 190919 | Surfactant Batch Treatment Efficiency as an Artificial Lift Method for Horizontal Gas Wells  
C. Gcali, Petroleum Abstracts/The University of Tulsa; H. Karami, The University of Oklahoma; E. Pereyra, C. Sarica, University of Tulsa |
Technical Program (as of 07 August 2018)

Wednesday, 29 August 2018 | 1030–1200
Waterway 4

05 Progressing Cavity Pumps

Session Chairpersons: Darin Austin, Innovative Production Inc.; Laura Labrador, Ecopetrol

This session will explore the latest developments in progressing cavity pump materials, geometries, and technologies. These developments, coupled with innovative solutions and challenging applications, improve the run life of PCP systems.

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<th>Time</th>
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| 1030 | 190945  | **One Company’s Experience using Metal to Metal PCPs as the Primary Artificial Lift Method in a SAGD Operation**  
O. Becerra, PetroChina Canada; J. Sheldon, C–Fer Technologies |
| 1100 | 190933  | **Identifying Analogue Fields in PCP Applications using Classification Trees**  
J. Sheldon, F.J. Alhanati, P. Skoczylas, C–FER Technologies |
| 1130 | 191118  | **Increased Run Life in Progressive Cavity Pumps From Characterization of High Nitrile Elastomers in the Orinoco Oil Belt**  
M.J. Han, PDVSA Petropiar; E. Guerra, Chevron Global Upstream; S.V. Rangel, I.B. Gamez, A. Delgado, PDVSA Petropiar |
| Alternate | 190964 | **Successful Application of an Innovative Geometry of Progressing Cavity Pump in Application With High Sand and Gas Content: Colombian Successful Case**  
| Alternate | 190948 | **System Run Life Improvement for Rod Driven PCP in High Deviation Well**  
S. Khadev, S. Agarwal, P. Kumar, N. Pandev, A. Parasher, S. Kumar, V. Agarwal, S. Tiwari, Cairn Oil & Gas |
| Alternate | 190944 | **Challenging Sand Producer Well Handling with PCP in Eastern Desert, Egypt**  
K.A. Al-Sawi, M.I. Hegazy, K.M. El-Hady, M.S. Abd-Elhamed, Kuwait Energy Egypt |
Wednesday Keynote Luncheon: Unconventional Reservoirs—A Technology Driven Revolution of Enormous Scale and Global Impact

The unconventional reservoir revolution disrupted the status quo that existed within the oil & gas industry at the start of the 21st century, creating both considerable opportunity and significant challenges. Industry’s understanding of unconventional reservoirs is still evolving rapidly, with the technical insights achieved over the past ten years having been remarkable, yet there is still much for industry to learn. This talk will summarize progress made to date and speculate about the likely impact of future technology advancements, including those related to artificial lift.

Wednesday, 29 August 2018 | 1200-1315

Greg Leveille
ConocoPhillips

Greg Leveille is chief technology officer for ConocoPhillips. During his career, he has held leadership positions in technology, exploration, operations, portfolio management, asset management, project management, and commercial organizations.

Leveille is a member of the Executive Committee of the Unconventional Resources Technology Conference (URTeC), serves on the Dean’s Advisory Board for the University of Houston’s College of Natural Sciences and Mathematics, and has led several United Way fund raising campaigns.
Technical Program (as of 07 August 2018)

Wednesday, 29 August 2018 | 1400–1530

06 Sucker Rod Pumps II
Session Chairpersons: Sergio Gonzales, ConocoPhillips; Michael Poythress, ConocoPhillips

Tubing failures in sucker rod pumping applications have become problematic in many basins around the world, especially in unconventional wells. Two papers in this session will detail how we can closely examine the product delivered by the drilling department, as we attempt to cycle a sucker rod string more than 7,000 times per day for many years without a failure. The third presentation will share a case history that focuses on getting more from our rod pump controllers, in the way of inferred production, to assist with the validation of well tests.

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<th>Time</th>
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| 1400 | 190935  | Rod–Guide Placement Based on High–Resolution Tortuosity Analysis of Production Tubing  
| 1430 | 190920  | Visualizing Rod Design and Analysis Through the Wave Equation  
W. Phillips, 3dwellbore.com |
| 1500 | 190955  | Enabling Autonomous Well Optimization Using IoT–Enabled Devices and Machine Learning in Bakken Horizontal Wells  
J. Freeman, P.M. Kulkarni, Statoil; R. Benoit, J. Filipi, B. Arnst, Ambyint |
**07 Electric Submersible Pumps II**

**Session Chairpersons:** Barry Nicholson, Occidental Petroleum; Steven Kennedy, EOG Resources Inc.

Science and math triumph over rules of thumb. In this session, three papers will be presented featuring exciting new models to simulate and predict ESP performance over a range of fluid characteristics, thereby enabling better ESP design, operational performance, and troubleshooting.

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<tr>
<td>1600</td>
<td>190926</td>
<td><strong>Centrifugal Pump Head Prediction using Affinity Laws Modified for Viscosity</strong></td>
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<td>A.R. Patil, G. Morrison, A. Delgado, Texas A&amp;M University; H.I. Casillas, Royal Dutch Shell</td>
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<td>1630</td>
<td>190927</td>
<td><strong>A Mechanistic Model to Predict Flow Pattern Transitions in Electrical Submersible Pump under Gassy Flow Condition</strong></td>
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<td>J. Zhu, J. Zhang, H. Zhu, H. Zhang, The University of Tulsa</td>
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<td>1700</td>
<td>190956</td>
<td><strong>A First Principles Model for Virtually Sensing Operational Parameters in an ESP Well</strong></td>
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<td>E. Aceros, Universidad Del Zulia; E. Camargo, Universidad de los Andes; J.I. Canelon, Universidad Del Zulia; A. Verde, Easy Oil, LLC</td>
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<tr>
<td>Alternate</td>
<td>190939</td>
<td><strong>Material Overview for Electric Submersible Pumps: Part I–Metallic and Ceramic Materials</strong></td>
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<td>J. Xiao, Saudi Aramco PE&amp;D; R.A. Lastra Melo, Saudi Aramco PE&amp;D EXPEC ARC; B.A. Roth, Saudi Aramco PE&amp;D; W. Lee, Alkhorayef Petroleum Company</td>
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Technical Program (as of 07 August 2018)

Thursday, 30 August 2018 | 0830-1000 Waterway 4

**08 Intermittent Gas Lift and Gas-Assisted Plunger Lift**

**Session Chairpersons:** Bill Hearn, ConocoPhillips Co; Clint Mason, Definitive Optimization

Gas lift is increasingly used as the primary lift method on new unconventional wells. Key to its success is the deployment of intermittent gas lift (IGL) and gas-assisted plunger lift (GAPL) later in the well’s life to reduce lift gas requirements and optimize flowing bottomhole pressure. This session will focus on the transition from continuous gas lift to IGL and GAPL and its implications on production, pressure, and operations.

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0830</td>
<td>190916</td>
<td><strong>Modeling Transient Inflow Performance Relationship in Artificial-Lift Systems</strong> Z. Xiang, C. Kabir, University of Houston</td>
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<tr>
<td>0900</td>
<td>190937</td>
<td><strong>Plunger-Assisted Gas Lift and Gas-Assisted Plunger Lift</strong> M. Burns, XTO Energy</td>
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</table>
Technical Program (as of 07 August 2018)

Thursday, 30 August 2018 | 1030–1200 Waterway 4

09 Designing Artificial Lift for the Life of the Well

Session Chairpersons: Michael Parker, Surge Energy Inc; Gonzalo Perez Cometto, Pan American Energy

Critical to managing costs as wells decline is having a strategy to ensure that the correct artificial lift type can be applied at the right time during a well’s life with minimal intervention costs. This session focuses on applying artificial lift throughout the life of a well and preparing the initial completion for the low-cost introduction of artificial lift later on.

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<th>Time</th>
<th>Paper #</th>
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<tr>
<td>1030</td>
<td>190954</td>
<td>Innovative Downhole Design for Optimize ALS Installation at Shale Oil Wells</td>
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<td>I. Cuneo, YPF SA; J.M. Ardito, G. Garcia Rivero, YPF</td>
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<td>1100</td>
<td>190928</td>
<td>Reducing Artificial Lift Surface Conversion Costs In A Unconventional Oil Field</td>
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<td>C.L. Weiss, Tourmaline Oil Corp; V. McGee, QCI; K. McAdam, Western Oil Tools</td>
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<tr>
<td>1130</td>
<td>190961</td>
<td>Getting Wells Back to Production Using an Innovative Artificial Lift System for Recovering Inactive Wells</td>
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<td>A.F. Vargas, Pump Best Services Colombia; J. Duran, Ecopetrol SA; A. Simpson, Veretek; R. Santos, Schlumberger; J.M. Doval, L. Muñoz, Ecopetrol SA; A.E. Patino Jerez, Schlumberger Surenco S.A.; C. Rativa, N. Hernandez, A. Rozo, Ecopetrol SA; D. Rios, Ecopetrol</td>
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<tr>
<td>Alternate</td>
<td>190922</td>
<td>Wellbore Modeling and Reservoir Characterization for the Application of Artificial Lift in Deep Horizontal Wells in the Unconventional Reservoirs</td>
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<td>P. Pankaj, K. Patron, L. Haidan, Schlumberger</td>
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Thursday Keynote Luncheon: Just Evacuate the Wellbore! Innovation is the Key to Doing the Impossible with Artificial Lift Daily in a Continuously Changing and Challenging Landscape

Artificial Lift was not easy back in the vertical well days and today it is more challenging with the ever changing and complex horizontal wellbore construction designs with solids and gas added to the mix. In other words, to make Artificial Lift even more fun, we pump millions of pounds of sand and water into our horizontal wells, we reduce the liquid inflow from day one, we increase the gas to liquid ratio almost continuously, and we likely have crooked wells with kinks throughout the wellbore. We also have heavy oil steam floods that add heat and more sand into the mix. Never forget, as we work to lower the bottom hole flowing pressure as low as possible we have to do this as cheaply as possible with a declining failure rate curve! Artificial Lift today is equivalent to playing 3D chess with the other player, board, pieces and room moving around us while everything is on fire! The good news is the SPE Artificial Lift Conference and Exhibition–Americas is attended by change agents who love to innovate and ask themselves and others “why are we doing it this way” every day! Some of these change agents have built and are selling better mousetraps right out in the exhibition. This talk will review all the above and propose how we dominate the way forward with innovation!

Thursday, 30 August 2018 | 1200–1315

Tom J. Walker
Occidental Petroleum

Tom J. Walker is chief production engineer for Occidental Petroleum. Based in Houston, Tom supports nearly 400 Oxy production engineers (PE) in Texas, Oman, Qatar, and Columbia. In addition to PE mentoring and development, he is also responsible for protecting the company’s base production, providing technical production engineering oversight to all the global business units and adding traction to innovative ideas from PE’s.

Walker has over 29 years of broad experience managing production operations around the world in locations including Brazil, Colorado, Wyoming, North Dakota, Montana, Utah, Oman, Qatar, California, and Alaska. His specialty includes production engineering support of oil and dry gas unconventional shale plays, coal bed methane gas, heavy oil steamflood, and waterfloods in conventional sandstone and carbonate reservoirs.
10 Artificial Lift Optimization

**Session Chairpersons:** Bill Hearn, ConocoPhillips Co; Ken Saveth, Baker Hughes, a GE company

Once artificial lift has been introduced, optimization and reliability become the key focus for achieving maximum value. This session focuses on the optimization workflows and the measurement and optimization of reliability in artificial lift.

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<th>Time</th>
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<tr>
<td>1400</td>
<td>190940</td>
<td><strong>Tuning VSDs in ESP Wells to Optimize Oil Production—Case Studies</strong></td>
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<td>L. A. Camilleri, H. Gong, Schlumberger; N.H. Al-Maqsseed, A.M. Al-Jazzaf, Kuwait Oil Company</td>
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<td>1430</td>
<td>190949</td>
<td><strong>Plunger Fall Velocity Studies in Vertical Wells</strong></td>
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<td>R. Acosta, E. Pereyra, C. Sarica, The University of Tulsa</td>
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<td>1500</td>
<td>190962</td>
<td><strong>Use of Run-Life Measures in Estimating Artificial Lift System Reliability</strong></td>
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<td>P. Skoczylas, F.J. Alhanati, J. Sheldon, C-FER Technologies; F. Trevisan, N/A</td>
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<td>Alternate</td>
<td>190963</td>
<td><strong>Cultural Change in ALS Real Time Operation and Optimization in Vaca Muerta Through CWE</strong></td>
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<td>J. Alvarez Claramunt, P.E. Bizzotto, F.D. Sapag, YPF SA; E. Ferrigno, J.L. Barros, G.D. Martinez, YPF</td>
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<tr>
<td>Alternate</td>
<td>190952</td>
<td><strong>Production Optimization for Progressive Cavity Pumps by Interconnecting a Steady-State Flow Simulator and a Black Oil Reservoir Model through Integrated Asset Management Software</strong></td>
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<td>M. Ali, K. Escobar, S. Cui, V. Salinas, Schlumberger</td>
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<td>Closing Remarks</td>
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Knowledge Sharing ePosters

Knowledge Sharing ePosters allow one-on-one interactions with presenters and opportunities to study a particular concept at an appropriate level of detail. Subject matter varies, but topics are consistent with the other technical sessions.

Knowledge Sharing ePosters I

**Session Chairpersons:** Bill Hearn, *ConocoPhillips*; Ken Saveth, *Baker Hughes, a GE Company*

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<tr>
<td>1000–1015</td>
<td>190958</td>
<td><strong>SRP Equipment Customization Creating Value by Increasing Run Life in a Low Oil Price Environment</strong>&lt;br&gt;M. Hoy, OMV E&amp;P; B. Kometer, OMV Austria E&amp;P; P.C. Buerssner, OMV Petrom; G.A. Puscalau, Weatherford International; S. Eder, AC2T research</td>
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<td>1015–1030</td>
<td>190932</td>
<td><strong>Downhole Plunger Speed Study in Sucker Rod High GOR and High Friction Wells</strong>&lt;br&gt;E. Ferrigno, D. El Khouri, YPF; G. Moreno, YPF Tecnologia</td>
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<tr>
<td>1530–1545</td>
<td>190941</td>
<td><strong>Efficacy of Surfactants in Rich Gas Shale Wells</strong>&lt;br&gt;Y. Alzhanov, University of Tulsa; H. Karami, University of Oklahoma; E. Pereyra, University of Tulsa; J.A. Gamboa, Chevron Corporation</td>
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<td>1545–1600</td>
<td>190919</td>
<td><strong>Surfactant Batch Treatment Efficiency as an Artificial Lift Method for Horizontal Gas Wells</strong>&lt;br&gt;C. Gcali, Petroleum Abstracts/The University of Tulsa; H. Karami, The University of Oklahoma; E. Pereyra, C. Sarica, University of Tulsa</td>
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Knowledge Sharing ePosters II

**Session Chairpersons:** Peter Oyewole, *Proline Energy Resources*; Steve Pohler, *Pohler Consulting*

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<td>1000–1015</td>
<td>190929</td>
<td><strong>Gas Lift Annulus Pressure</strong>&lt;br&gt;K.L. Decker, Retired; R.P. Sutton, Consultant</td>
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<tr>
<td>1015–1030</td>
<td>190950</td>
<td><strong>Impact of Gas Lift Design in Unconventional Wells—A Delaware Basin Operators Perspective</strong>&lt;br&gt;S.K. Kannan, M. Boyer, J. Dufresne, Anadarko Petroleum Corp; L.E. Gonzalez, Xenon Lift Services</td>
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<td>1545–1600</td>
<td>190948</td>
<td><strong>System Run Life Improvement for Rod Driven PCP in High Deviation Well</strong>&lt;br&gt;S. Khadev, S. Agarwal, P. Kumar, N. Pandev, A. Parasher, S. Kumar, V. Agarwal, S. Tiwari, Cairn Oil &amp; Gas</td>
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Knowledge Sharing ePosters

Knowledge Sharing ePosters III
Session Chairpersons: Marcelo Hirschfeldt, Oil Production Consulting; Robert Navo, Baker Hughes, a GE company

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<th>Time</th>
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<td>Wednesday, 29 August</td>
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<td>Production Optimization for Progressive Cavity Pumps by Interconnecting a Steady-State Flow Simulator and a Black Oil Reservoir Model through Integrated Asset Management Software M. Ali, K. Escobar, S. Cui, V. Salinas, Schlumberger</td>
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Knowledge Sharing ePosters IV
Session Chairpersons: Michael Poythress, ConocoPhillips

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<td>Wednesday, 29 August</td>
<td>1000–1030</td>
<td>Station II</td>
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<tr>
<td>1000–1015</td>
<td>190922</td>
<td>Wellbore Modeling and Reservoir Characterization for the Application of Artificial Lift in Deep Horizontal Wells in the Unconventional Reservoirs P. Pankaj, K. Patron, L. Haidan, Schlumberger</td>
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<td>Quick Connectors Inc.</td>
<td>5226 Brittmoore, Houston, TX 77041 USA</td>
<td>713-984-1800</td>
<td>713-984-1079</td>
<td><a href="http://www.quickconnectors.com">www.quickconnectors.com</a></td>
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<td>281-285-8500</td>
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<td><a href="http://www.raptorlift.net">www.raptorlift.net</a></td>
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<td>Raptor Lift Solutions, LLC Efficiency at its best can be achieved using Raptor Lift’s unique patented artificial lift technologies, Power Sentry, Hydra-Lift™ and MaxValve. We are committed to optimizing oil and gas production and succeeding together with our customer. Our R&amp;D is focused on mechanical and electrical efficiency improvement.</td>
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<tr>
<td>313</td>
<td>Shandong Wanda Cable Co Ltd</td>
<td>No. 2 Tongxing Road KenLi, Dongying, Shandong 257500 China</td>
<td>+86-18754607669</td>
<td>+86-546-2079192</td>
<td><a href="http://www.wandacable.com">www.wandacable.com</a></td>
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<td>We’re the cable manufacturer and main products include ESP Power cable, MLE cable, Magnetic Wire and PEEK wire. We have 28 years experience in ESP cable industry, own the API Q1 Certificate and can produce the cable per IEEE-1018 standard. The manufacturing capacity per month can reach 600 km, products had been exported to over 30 countries.</td>
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<tr>
<td>516</td>
<td>RMSpumptools</td>
<td>North Meadows Oldmeldrum, Aberdeen, Aberdeenshire AB51 0GQ United Kingdom</td>
<td>0044 (0)1651 874999</td>
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<td><a href="http://www.rmspumptools.com">www.rmspumptools.com</a></td>
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<td>RMSpumptools is established as a world leader in Artificial Lift Completion Technology and Subsea Connectors, providing the industry with the most extensive range of integrated products.</td>
</tr>
<tr>
<td>316</td>
<td>Taurus Engineering</td>
<td>1320 W. 15th St., Long Beach, CA 90813 USA</td>
<td>562-533-8256</td>
<td>562-432-4320-835</td>
<td><a href="http://www.taurusengineering.com">www.taurusengineering.com</a></td>
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<td>Taurus specializes in supplying ESP related Wellhead Feedthru Systems and services to the Oil and Gas Industry; including Explosion-Proof Electrical Feedthru Connectors, Wellhead Penetrators and Feedthru Systems, Wellhead Surface Connectors, Packer Penetrators, Chemical Injection Tubing, Instrumentation Wire and other Specialty Products.</td>
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</table>
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Triol Corporation is a worldwide manufacturer of the oil-production equipment. The company specializes in the production of artificial lift surface equipment, submersible, low- and medium-voltage equipment and software. Triol presents innovative solutions for oil production: Variable speed drive AK06 and Linear Electric Submersible Pump (LESP).

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