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Society of Petroleum Engineers
222 Palisades Creek Drive
Richardson, TX 75080 USA

Post-Conference Training Course

SPE is offering a training course to make the most of your time at the conference and to enhance your professional development.

Basics of Artificial Lift Systems

Instructor: Hemanta Mukherjee

28–29 October | 0800–1700

This course presents a complete overview of the most widely used artificial lift systems in the oil and gas industry.

The training course will be held at The Woodlands Waterway Marriott Hotel and will require a separate ticket purchase from the conference.

SPE Artificial Lift Conference and Exhibition—North America

Look inside for details on the technical program, legends of artificial lift, keynote luncheons, and more!

25–27 October 2016

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

www.spe.org/go/ALCEProgram

ABOUT THE EVENT

The **SPE Artificial Lift Conference and Exhibition—North America** focuses on case studies and best practices

in artificial lift applications, primarily for unconventional shale developments.

About the Society of Petroleum Engineers

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 147 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry, and provides services through its publications, events, training courses, and online resources at www.spe.org.

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Special Events

Plenary Session—Well Production Life Cycle: When is the Right Time to Transition From Flowing to Lift and When to Change Between Lift Methods

Tuesday 25 October | 0830–1000

Different perspectives will be shared on the decisions made regarding lift installations and revisions in the life cycle of a well producing from an unconventional reservoir.

Moderator: Shauna Noonan, Occidental Petroleum

Speakers: Bill Lane, Weatherford; Greg Stephenson, ConocoPhillips; Libby Einhorn, Concho

Keynote Luncheon—Artificial Lift: Integration from Pore to Pipeline

Tuesday 25 October | 1200–1315

Speaker: Kyel Hodenfield, Schlumberger

Keynote Luncheon—The Artificial Lift Culture Change

Wednesday 26 October | 1200–1315

This presentation will cover the importance of artificial lift to Oxy and how the company is becoming more innovative and collaborative to foster better performance and reliability.

Speaker: Jody Elliott, Occidental Petroleum

Legends in Artificial Lift Awards Luncheon

Thursday, 27 October | 1200–1315

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.

Award Recipients: John Bearden, Mark Mahoney, Jim McCoy, and Sid Smith, Sr.

Emcee: Jeff Spath, Texas Oil & Gas Institute and SPE Past President

Technical Program (as of 26 September 2016)

TUESDAY, 25 OCTOBER

01 Sucker Rod Pumps | 1030–1200

Optimization has been a common theme for sucker rod pumping for many years, but the increase in complexity of the wells being produced necessitates more capable tools for optimizing these wells. This session will cover some of the challenges faced in optimizing sucker rod pumps in unconventional, and how some operators are overcoming those challenges.

Session Chairpersons:

Mike Poythress, ConocoPhillips
Anthony Allison, Occidental Petroleum

02 Electric Submersible Pumps I: ESP Production in Tough Places | 1400–1530

Unconventional wellbores can be very challenging places for rotating equipment. Difficult well curvatures coupled with extreme and variable production environments can tax the physical limits of ESP systems. In this session we will look at some examples of how new technologies and unconventional approaches have allowed ESP production and optimization in these very challenging environments.

Session Chairpersons:

Chip Ollre, GE Oil & Gas
Leon Waldner, Nexen

03 Gas Lift/Plunger Lift | 1600–1730

Uncertainty of initial rates along with drastic changes in production rates require artificial lift systems which can adapt to these changes while remaining economic during the later life of the well. Gas lift, plunger lift, and gas lift assisted plunger lift have been used to manage these extremes economically and this

session will review experiences and lessons learned in designing, applying, and optimizing these systems.

Session Chairpersons:

Bill Hearn, ConocoPhillips
Barry Labrecque, Shell Canada

WEDNESDAY, 26 OCTOBER

04 Data Management and Analytics | 0830–1000

Data: We all want it, but most of us struggle to deal with it when we get it. This session features authors who have found a way to manage and evaluate the large datasets that hold the key to understanding and optimizing our artificial lift systems.

Session Chairpersons:

Shauna Noonan, Occidental Petroleum
Walter Phillips, Black Gold Pump & Supply

05 Flow Assurance I: Slug Prediction and Mitigation | 1030–1200

Production from horizontal wells in unconventional resource applications presents operators with a variety of flow assurance challenges. These include the production of sand, wax and hydrates, and, in particular, the instability and slugging caused by the wells' unique geometry and production profiles. The papers presented within this session provide approaches for predicting the conditions under which liquid loading and well instability may occur as well as approaches for mitigating these events.

Session Chairpersons:

Greg Stephenson, ConocoPhillips
Bruce Gerrard, Occidental Petroleum

Technical Program (as of 26 September 2016)

06 Sucker Rod Pumps II | 1400–1530

As operators strive to minimize operating costs in a down market, many are turning to technology to improve the efficiency of their operations. Some of the technology is new to the oilfield or some is common to other lift methods and new to sucker rod pumping. Others are not necessarily new, but not widely understood and may be suited to new applications. This session will explore several of these technologies and demonstrate the efficiency improvements they provide.

Session Chairpersons:

Justin Bates, Carrizo Oil & Gas
Garrett McCrory, Shell E&P

07 Electric Submersible Pumps II: Novel Approaches to ESP Challenges | 1600–1730

This session features four papers that take on different approaches to solve challenges for ESPs. Want to see ESP selection from a probabilistic analysis of big data? Are you interested in seeing how new computer models are combined with 3D metal printing to solve gas issues for ESPs? Running ESPs on coiled tubing, advanced technologies for extreme operating conditions in those gassy wells, this session has it covered.

Session Chairpersons:

Chip Ollre, GE Oil & Gas
Peter Oyewole, Proline Energy Resources

THURSDAY, 27 OCTOBER

08 Flow Assurance II: Completion and Artificial Lift Issues | 0830–1000

Slugging and instability are key production challenges facing operators of horizontal wells, particularly in unconventional resources applications. These instability phenomena may be worsened or mitigated by the wells' trajectory, completion methodology, and artificial lift practices. The papers presented within this session present approaches to predict slugging in such wells along with ways to minimize these events and improve well stability.

Session Chairpersons:

Greg Stephenson, ConocoPhillips
Robert Navo, Consultant

09 Artificial Lift Selection | 1030–1200

Artificial lift selection in unconventional resources is extremely challenging due to the significant changes in production during early well life, gas separation, and well profiles. This session features some strategies that have been deployed for selection along with results.

Session Chairpersons:

Bill Hearn, ConocoPhillips
Bruce Gerrard, Occidental Petroleum

10 New Technology | 1400–1600

The artificial lift industry landscape is constantly changing with the emergence of new technology and advancement of existing technology. This session features three different technologies where each of the authors will discuss their application and share the results from implementation.

Session Chairpersons:

Keith Russell, Borets
Robin Roberts, Summit ESP

Registration for this conference is currently open.
Visit www.spe.org/go/ALCEProgram for more information.