Great strides have been taken toward achieving economic shale and tight oil development in the new commodity price environment. Nevertheless, market forces, decline rates, and the desire to eventually develop less-prolific plays and non-core acreage ensure that we remain focused on delivering greater productivity and superior ultimate recovery at lower cost.

Whether you are evaluating undeveloped acreage, targeting a new bench within an established basin, optimizing full-field development, or contemplating infill drilling and EOR in a mature play, the SPE Shale Development Optimization workshop should be of interest to you.

Experts from all disciplines will discuss their experiences – both successful and unsuccessful – and the learnings derived from them. Contribute to the debate on critical unanswered questions and help identify emerging best practices from the fastest-moving areas of shale development.
General Information

Accessibility
Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

Alcohol Policy
SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

Commercialism
In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

Continuing Education Units
Attendees will receive 2.0 CEUs. One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant’s involvement and awarding of CEUs will be maintained by SPE.

Documentation
Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

Electronic Devices
As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

Name Badges
Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers, and sponsors.

Photography and Recording Policy
SPE reserves the exclusive rights to all video/audio recording or reproductions of the workshop.

Unauthorized video/audio recording is expressly prohibited in the session room(s) or poster area, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

Workshop Format
Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

Schedule

Monday, 7 May 2018
1730-1900
Welcome Reception  Courtyard Deck

Tuesday, 8 May 2018

Technical Sessions located in Fredricksburg A-D Ballroom

0700–0800
Registration Check-in and Continental Breakfast
0800–0815
Opening Remarks
0815–1000
Session 1: Big Picture – The Global Impact of Shale Development
Session Chairs: Matt Bell, Premier Oilfield Group
David Crighton, Total
- Presentation 1: North America Shale – Supply, Activity Trends, and Bottlenecks
  Ryan Carbrey, Rystad Energy
- Presentation 2: API Standards for Shale Development
  Ben Coco, API
- Presentation 3: The Size of the Prize: US Shale
  Phillip Dunning, Drilling Info
1000-1030
Coffee Break
1030-1200
Session 2: Reservoir Characterization – From Microscopy to Seismic
Session Chairs: Andrew Quarles, Endeavor Energy Resources
Azra Tutuncu, Colorado School of Mines
- Presentation 1: Optimizing Well Spacing and Well Performance in the Piceance Basin Niobrara Formation
  Mike Mayerhofer, Liberty Oilfield Services
- Presentation 2: Characterization Of Shale Formations Using Multi-Scale Imaging And Reactive Transport Modeling
  Babak Shafei, AquaNRG
- Presentation 3: Pore to Log Upscaling of Rock, Fluid & Mechanical Properties - An Inter-disciplinary Workflow
  Kent Newsham, Occidental Petroleum
1200-1330
Luncheon  Courtyard Deck
1330–1500
Session 3: Play-by-Play – Examples of Cost-Saving Techniques and Technology
Session Chairs: Jessica Iriarte Lopez, Well Data Labs
Eric Marshall, FractureID
- Presentation 1: Leveraging Cloud-Based Analytics to Enhance Near-Real Time Stage Management
  Pete Bommer, Abraxas Petroleum Corporation
- Presentation 2: DJ Basin: Unlocking Value with Data Analytics
  Aaron Reimchem, RS Energy
- Presentation 3: Synthetic Well Log Generation using Machine Learning
  Oye Akinnikawe, Devon Energy
Coffee Break

1530–1700

Session 4: Completion & Stimulation Optimization – Balancing Cost, Productivity, and EUR
Session Chairs: Dick Leonard, Protechnics
Rob Fulks, Weatherford

- Presentation 1: Mining the Bakken: Pushing the Envelope with High Density Perforating and Extreme Limited Entry
  Paul Weddle, Liberty Resources
- Presentation 2: Application of Pressure Based Fracture Mapping Technology for Completion Optimization
  Byron Cottingham, LINN Energy
- Presentation 3: Geochemistry Driven Engineered Completion Designs for Unconventional Reservoirs
  Mark Andreason, CCI

Networking Reception

Wednesday, 9 May 2018

0700–0800 Continental Breakfast

0800–0930

Session 5: Well and Reservoir Surveillance and Management
Session Chairs: Bob Gales, California Resources Corp
Lionel Ribeiro, Statoil

- Presentation 1: Improving Economic Life and Reserves of an Unconventional Well Utilizing 3-phase Flow Metering, Sensor Technology, and Data Analytics
  Lanny Schoeling, NeoTek Energy
- Presentation 2: Applying Subsurface DNA Diagnostics and Data Science in the Delaware Basin
  Jose Silva, Anadarko
- Presentation 3: Long Term Reservoir Surveillance Using Chemical Tracers
  Chad Sinters, ProTechnics

0930–1000 Coffee Break

1000–1130

Session 6: Data Analytics, Artificial Intelligence, and Machine Learning
Session Chairs: James Courtier, Laredo Petroleum
Jessica Iriarte Lopez, Well Data Labs

- Presentation 1: Driving IRR with Artificial Intelligence: Increasing Capital Efficiency of D&C Programs
  Jon Ludwig, NoviLabs
- Presentation 2: Data Driven Decline Curve Analysis for Unconventional Reservoirs
  Uchenna Odi, Devon Energy
- Presentation 3: Rapid Development of Real-Time Drilling Analytics System
  Chad Loesel, Anadarko

1130–1300 Luncheon

1300–1430

Session 7: Challenges Associated with Infill Drilling and Parent-Child Well Interactions
Session Chairs: Eric Marshall, FractureID
Ryan Epperson, Devon Energy

- Presentation 1: Leveraging Multi Platform Data Sources to Quantify Wells at Risk for Field Development
  Brendan Elliott, Devon Energy
- Presentation 2: Expanding the Margins of the Williston Basin – The Impact of Refined Stimulation Design
  Kyle Trainor, NP Resources
- Presentation 3: Fracture Driven Well-to-Well Communication: Causes and Control
  George King, Apache

1430–1500 Coffee Break

1500–1630

Session 8: Latest Updates in the World of Regulations and our Social License to Operate
Session Chairs: Azra Tutuncu, Colorado School of Mines
Matt Bell, Premier Oilfield Group

- Presentation 1: Managing the Permanent University Fund Lands: An Overview
  Maryam Schellstede, University Lands
- Presentation 2: Managing Fugitive Emissions: Case Studies
  Lisa He, Statoil Gulf Services
- Presentation 3: Fresh Water Neutral – Managing Water Use and Giving Back to the Environment
  Karen Olson, Southwestern Energy

Thursday, 10 May 2018

0700–0800 Continental Breakfast

0800–0930

Session 9: The Transition of Enhanced Oil Recovery from R&D to Pilot Testing and into the Field
Session Chairs: Nagi Nagarajan, Hess
Billy Harris, Lodestone O&G Consulting

- Presentation 1: The Journey from EUR to EOR
  Steve Geetan and Richard MacDonald, Alta Mesa Resources
- Presentation 2: Taking EOR from the Lab to the Field – Case Studies in the Bakken
  Beth Kurz, Energy & Environmental Research Center
- Presentation 3: Challenges Planning an EOR Pilot in Unconventional Reservoirs
  Jairo Corredor, Devon Energy

0930–1000 Coffee Break

1000–1130

Session 10: Wrap Up and Open Discussion
Session Chair: Matt Bell, Premier Oilfield Group

We will close the workshop with an opportunity to reflect on what we have heard and learned, and to discuss topics that have not been covered during the scheduled program.