Society of Petroleum Engineers

1917-Mid-Continent Section-2017
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Voting members consist of the Executive Committee. The Chairman only votes in the event of a tie. A Motion can be voted upon with a Quorum of the Voting Members present. A Quorum consists of five Voting Members present. An affirmative vote will consist of 51% of the Quorum present. Committee Chairmen and in their absence, the Committee Vice Chairmen are encouraged to attend board meetings and provide representation and committee reports. The editor welcomes newsworthy items about SPE members or events. Please provide a draft to the newsletter editor by the 25th of the month. Change of contact information requests should be made to SPE in Richardson, TX, 1-800-456-6863, or service@spe.org.
Happy Holidays everyone! Are we all taking a breath and feeling a little let down as well? Well I am looking forward to a promising new year, and I hope it is also a productive year for the oil and gas industry. Today it appears the oil price is looking better anyway. Although the industry future is uncertain, our 2020 SPE Luncheon Speaker lineup is not. We will kick off the 2020 Luncheons at the Oaks Country Club on January 15, with speaker Jeff Canady, who will be presenting the topic, “PHMSA Regulation Changes Affecting Oil and Gas Operations”. In February, the speaker will be Richard Spears, presenting his topic, “Energy in 2020: 10 Questions You Should be Asking Yourself Heading into the New Year”. The date and place for this luncheon will be Thursday, February 27, at the Oaks Country Club. In March, the speaker will be Gregory Walker from Repsol, who is a Distinguished Lecturer, will be presenting his topic, “Enhancing Fluid Recovery in Shales: Why Pores less than 10nm Matter”. Please take time to register in advance for these meetings.

Just as a reminder, our luncheon meetings have been temporarily moved from the Summit Club to the Oaks Country Club because of renovations at the Summit. We will be returning to the Summit when renovations have been completed. I thank you all for your attendance at the Oaks in advance.

It is not too late to renew your SPE membership. Please take the time to do so if you have not already. This is a truly wonderful organization that provides all of us with many benefits that we cannot get anywhere else. Please take advantage of this great organization.

I was planning to talk a little football . . . never mind, I will finish by wishing all of us a prosperous, safe and happy year!

Signing off,

Lisa Sullivan
2019-2020 Chairman
lsullivan6311@gmail.com
Now Available: The SPE International App

The New SPE International App allows you access to SPE anytime, anywhere. It has many great benefits: access to our widely used OnePetro® and PetroWiki® platforms, the latest content from SPE magazines and publications which you can tailor to your preferences, and global networking opportunities through SPE Connect.
From Your Editor
Betty Felber, 2019-2020 Editor

Hope you had a great holiday season. Welcome to the New Year. We are now into 2020. The first time we can write 2020.

We are also starting a different meeting place for the remainder of this season. The Oaks Country Club will be our Section’s home away from home. Enjoy the ease of parking.

There are a lot of good luncheon speakers slated for our meetings. Come join the “gang”. Maybe you will learn some tips to improve your bottom line.

Betty Felber
Editor

Calendar of Events

Wednesday, January 15, 2020 - Luncheon Meeting - Oaks Country Club
• Jeff Canady, Pipeline Regulatory Consultants, Inc., “PHMSA Regulation Changes Affecting Oil and Gas Operations”

Thursday, February 27, 2020 - Luncheon Meeting - Oaks Country Club

Wednesday, March 18, 2020 - Luncheon Meeting - Oaks Country Club
• Gregory Walker, Repsol | Distinguished Lecturer |, “Enhancing Fluid Recovery in shales: Why Pores less than 10nm Matter”

April 18-22, 2020, SPE Improved Oil Recovery Conference - Tulsa
• Short Courses Sat. 18th - Sun. 19th, Technical Program Sessions, Mon. 20th - Wed. 22nd - Register Now at [www.speior.org](http://www.speior.org).

All SPE luncheons are held at the Summit Club unless otherwise noted - See p7 for more details.
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By providing quality equipment at competitive prices, and delivering them timely and safely to our customers, we’re raising the standard of service (and our customers expectations). When it comes to unmatched expertise, reliability, and responsiveness, X marks the spot.
Note: all of the following luncheons will be held at the
Oaks Country Club, 4101 Oaks Country Club Dr., Tulsa, OK 74131

JANUARY 2020

WEDNESDAY, January 15, 2020 - Luncheon Meeting
Location: Oaks Country Club
Speaker: Jeff Canady, Pipeline Regulatory Consultants, Inc.
Topic: “PHMSA Regulation Changes Affecting Oil and Gas Operations”

Register: https://spemc011520.eventbrite.com

Description
Pipeline regulations related to lease and transmission operations increase in complexity with time as local, state, and federal regulations change. The new Pipeline Hazardous Materials Safety Administration (PHMSA) “Mega Rule” is about to increase the complexity of both lease and transmission compliance. The following topics will be reviewed and discussed at the next Section Luncheon of the Tulsa Society of Petroleum Engineers:

- DOT PHMSA/State Regulatory Overview
- Gathering Line Determinations as per past PHMSA Understandings
- Gathering System definition as per API RP-80
- Regulated Gathering & Transmission lines as per PART 192
- PART 192 Code Requirements
- Regulated Hazardous Liquid Pipeline Determination

Speaker
Jeff Canady
He has been in the pipeline industry for 36 years. He spent 13 years with Phillip Petroleum Company in the pipeline regulatory division, 4 years for The Oklahoma Corporation Commission as a Pipeline Safety Inspector and 19 years in the private sector as a Pipeline Safety Consultant.
FEBRUARY 2020

THURSDAY, February 27, 2020 - Luncheon Meeting
Location: Oaks Country Club
Speaker: Richard Spears, Spears & Associates
Topic: “Energy in 2020: 10 Questions You Should be Asking Yourself Heading into the New Year”

Register: [https://spemc022720.eventbrite.com](https://spemc022720.eventbrite.com)

Description
Who could have fully appreciated the impact of investors’ demanding that oil companies completely modify their US drilling behavior in 2019? Will this free cash flow mantra bleed into the major oil companies’ activities outside North America? Are the IOCs focusing on remote exploration and development to avoid the scrutiny of Greta Thunberg’s anti-oil acolytes? Is Greta sacrificing the millions employed by oil in order to maybe save the planet at some date yet to be determined hundreds of years from now (or maybe 12). Richard Spears will present his firm’s 2020 outlook for oilfield service & equipment markets while posing the 10 questions you should be asking yourself about society and the oil industry heading into the new year.

Speaker
Richard Spears
Richard Spears is one of the managing directors of Spears & Associates, an oilfield market research firm founded in 1965. The firm has over 350 clients worldwide. Richard has been with the firm since 1985. Richard started as a field engineer for Halliburton in Enid, Oklahoma and has worked on every continent except for the Antarctic.

Richard is a 35-year member of the Society of Petroleum Engineers.

Richard is on the board of directors of Evolution Engineering, a manufacturer of measurement while drilling systems. Richard chairs the philanthropy committee of a Broadway theater company and is chairman of the board of a 600-student classical Christian school in Tulsa.
MARCH 2020

WEDNESDAY, March 18, 2020 - Luncheon Meeting
Location: Oaks Country Club
Speaker: Gregory Walker, Repsol | Distinguished Lecturer |
Topic: “ Enhancing Fluid Recovery in shales: Why Pores less than 10nm Matter”

Register: [https://spemc031820.eventbrite.com](https://spemc031820.eventbrite.com)

Description
The one idea to take away is “If you’re trying to calibrate shales, you’ll need to calibrate the pores less than 10nm”.

Unconventional reservoirs are present worldwide, and have added 7500Tscf and 418Billion stb of liquids to global resources by EIA estimates. The new prize is predicting the liquid yield and improving liquid recovery, with cyclic gas injection offering a route to a +60% increase in liquids.

However, these are unconventional reservoirs, so some basic assumptions and mechanisms change. For a conventional reservoir we expect lighter fluid above denser fluid, for fluid samples to represent the fluid in the pores, and for lab measurements to apply in the reservoir. For an unconventional reservoir, the pore throat size becomes important. Small pore throats have low permeability, so the fluid type depends on local source maturity, with oil over gas, and lateral variations in a long horizontal well. The small pores impact the phase envelope, such that lab measurements of the phase envelope may not apply. The small pores also have a large surface area for adsorbed gas, so a fluid sample might not represent the actual composition. The Langmuir pressure for shales can be above 4000psi, taking the release of adsorbed gas into similar pressures as dewpoint for a condensate. The realisation that the adsorbed gas could be releasing methane into the free gas, changing the liquid yield above the dewpoint of the free gas, has allowed a history match of the unusual liquid yield behaviour.

Speaker
Gregory Walker
Greg Walker is the Discipline Manager for Reservoir Engineering for Repsol.

His thesis is from the University of Cambridge, working on fluid flow in fractured reservoirs. His 18 years in the industry started with performing reservoir studies for supergiant fractured carbonates fields in the middle east, and have included fractured basement and carbonate fields in Asia, and onshore shales. He has supervised a PhD candidate at the University of Calgary, authored papers on topics including time lapse seismic (SPE 106019), production optimization (IPTC 11650), Ensemble Kalman Filters for SAGD reservoirs (SPE188387), and unconventionals (SPE185045).

He has been an editor for JCPT, and a session chair at the Bruges ATW on Closed Loop Reservoir Management.
“Laughter is the sun that drives winter from the human face.”

— Victor Hugo