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Nominations: Open

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Young Professionals: Billea Karnes, WPX Energy  
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Golf Tournament: Nathan Nitchals, MS Energy Services  
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SPE Mid-Continent Section  |  P.O. Box 575, Tulsa, OK 74101-0575  |  www.spemc.org

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.
Hello again,

I hope everyone enjoyed the Super Bowl. I am very excited for Kansas City, it has been a long time waiting for them and their coach, Andy Reid (sorry 49er fans).

Back to business, last month we enjoyed a luncheon topic presented by Jeff Canady, from Pipeline Regulatory Consultants, Inc., on the topic, “PHMSA Regulation Changes Affecting Oil and Gas Operations”. Thanks to Jeff for presenting this important information.

This month the presentation will be at the Oaks Country Club and the speaker is Richard Spears on the topic of “Energy in 2020: 10 Questions You Should be Asking Yourself Heading into the New Year.” Please get your reservation in early as Richard is a very good speaker!

Please watch for March meetings and the IOR conference is coming this spring.

Sincerely,

Lisa Sullivan
2019-2020 Chairman
lsullivan6311@gmail.com

PetroWiki is a free resource from SPE to answer many basic petroleum engineering and operational questions. SPE professional members can contribute their expertise through updating or adding to PetroWiki content.

http://petrowiki.org/PetroWiki
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

February contains at least two days of note—Presidents’ Day and Valentine’s Day. Be sure to add another day for your activities—our Mid-Continent Luncheon. Come to the Oaks Country Club on February 27th. Join us!! For Richard Spears’ riveting presentation.

Don’t forget to review the ads in your newsletter. There are some interesting technologies that can help solve some of the scientific challenges that confront you. Look for technologies that can help you do your job faster, economically and accurately. When you find these outstanding technologies, share them with your fellow professionals by talking about the successes you have had.

Also, note the listing of short courses in conjunction with the IOR meeting in April. Surely some of these courses can add value to your technical performance. Go to www.speior.org to see the course details. You do not have to register for the Symposium to attend the short courses.

Betty Felber
Editor

Calendar of Events

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.

All SPE luncheons are held at the Summit Club unless otherwise noted - See p7 for more details.
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Note: all of the following luncheons will be held at the
Oaks Country Club, 4101 Oaks Country Club Dr., Tulsa, OK 74131

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

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.
SPE Mid-Continent luncheon meetings are held at the Summit Club** in Tulsa from 11:20-1:00 p.m. unless otherwise noted. To register and pay by credit card, or make a reservation to pay by check or cash at the door, go to the corresponding link for a luncheon. Luncheon cost is $25.00 professional, $10 retired/unemployed, and free for students. Payment by credit card is for advanced registrations ONLY, no credit cards will be accepted at the meeting, only check or cash with a reservation. Registration ends 48 hours prior to the luncheon date. No walk-ins please.

**Summit Club | Bank of America Center, 15 West Sixth Street (NE corner of 6th & Boulder) | Tulsa, OK 74119 | 918.582.5243 | Parking details are available at www.summittulsa.com/club/parking.

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 frac\ntured 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.

“In February there is everything to hope for and nothing to regret.”

— Patience Strong--United Kingdom poet