

SPE Mid-Continent Section Newsletter

May 2024 | Issue No. 493



Mid-Continent Section



SPE Mid-Continent Section

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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 50% 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.

Chairman's Gavel

Brian Flake, 2023-2024 Chairman

As summer approaches, our SPE Mid-Continent Section will be winding down with activities by the end of the month. Programming will pick back up in August. We have the following events: one remaining section meeting with our guest speaker from Drill2Frac next Wednesday May 15th, 2024 at OSU-Tulsa and a member appreciation family night on Thursday May 30th, 2024. Details on both events can be found further on in this month's newsletter.

I would like to mention our two events that took place in April outside of regular monthly programming. Tom McCoy led the 2024 IOR Committee to an incredible success at this year's Conference. We hosted more than 400 attendees from over 25 different countries at the River Spirit Casino and Resort. The funds raised by the conference are in excess of \$200,000. These funds will be used for scholarships that promote longevity and growth in the energy sector here in Oklahoma. Tom's leadership was outstanding and instrumental in helping us re-establish this in-person conference after being virtual for two rotations.

Additionally, our annual golf tournament run by Michael Owen was a success. Michael continued to improve on this event, and for the second year in a row was able to double the amount of money raised. Our total number of participants grew as well as our sponsor base. In order to spur the success of this event we ask that you continue to participate and let your network know that the money is going towards helping the education of future petroleum professionals.

Elections have concluded and your new Chairman for the Section is Bryn Lewis. Bryn has served as our Scholarship Committee Chair, and our Vice Chair of Programs. We are very excited to have her stay on and continue to serve the board as its lead, and look forward to all the growth she is sure to bring to the Section. I appreciate and am thankful to everyone that has assisted me, as well as participated in all the activities that the Section has put on this year while I have been Chairman. It has been my honor to keep things moving forward for the SPE Mid-Continent.

Brian Flake

2023-2024 Chairman

bflake@calyxenergy.com

SPE Mid-Continent Newsletter Sponsors

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CONGRATULATIONS! Following are the results of the SPE Mid-Continent Section 2024-2025 Officers and Directors Election:

Chairman:

Bryn Lewis

Vice Chairman (Programs):

McKenzie Bender

Secretary:

Laura Camila Osorio Ojeda

Treasurer:

Ryan Owen

Directors:

Miranda Dunham

Charley Mathis

Hap Pinkerton

Mike Stafford

Joseph Tyree

Reminder that SPE Scholarship applications for the 2024-2025 academic year are due May 30th.

This scholarship is available for students who have a declared major and are enrolled (or intended enrollment for incoming Freshman) in an accredited bachelor's degree in a petroleum-related program (Petroleum Engineering, Geosciences, Energy Management, etc.) at a public or private college or university; Applicants should have a permanent address located within the greater Tulsa metropolitan area, or plan on attending a college or university within the Northeast Oklahoma area (OU, TU, OSU, etc.). For more info, see the "Scholarships" tab at www.spemc.org/spemc-scholarships.

Member Appreciation Event

WHO: Full time SPE Mid-Continent members and their families

WHAT: Tulsa Drillers vs. Northwest Arkansas

WHERE: ONEOK Field, Osage Pavilion (201 N. Elgin Avenue Tulsa, OK 74120)

WHEN: Thursday, May 30, 2024

RSVP: <https://spemcbrnigh24.eventbrite.com> (Attendance is free to members, but RSVP is required - RSVP by Noon Monday, May 27th)

Mark your calendars for Thursday evening, the 30th of May, 2024, as our Tulsa Drillers take on Northwest Arkansas. We have reserved the Osage Casino Pavilion located out in Left Field, on the 3rd Base side. There will be free hamburgers, hotdogs, baked beans, potato salad, watermelon, fountain drinks, chips and cookies. Bring the family and come watch the Drillers beat NW Arkansas.

All full time Mid-Continent members and their families are cordially invited. Let us once again demonstrate to our wonderful and loyal members just how appreciative we are of your continued support.

Bring the kids to meet Hornsby!

Calendar of Events

Wednesday, May 15, 2024 - Luncheon Meeting, OSU Tulsa

- Kevin Wutherich, Drill2Frac, “Minimizing FDI Impact on Production Through Depleted Fracture Identification and Completion Optimization”

Thursday, May 30 2024 - Family Fun Night - Drillers Stadium - **SEE SIGN-UP DETAILS THIS PAGE**

Friday, October 4, 2024 - **SAVE THE DATE**

- 29th Annual Sporting Clays Classic, Longshot Ranch, Skiatook - Watch for details via email and in the September 2024 newsletter

All SPEMC luncheons are held at the OSU Tulsa Conference Center unless otherwise noted - See pp 6-7 for more details.

TU SPE Professional Spotlight

McKenzie Bender is a 2014 TU graduate and has worked in the industry for 10 years. She is currently a Corporate Development Reservoir Engineer at Williams. Her hobbies are being a wife and mom, playing tennis when she has the time, and being outdoors. Her interests are giving back to my community by serving on boards, both professional and non-profit organizations she is passionate about.

Where do you currently work/What field do you work in (drilling, production, reservoir)? “After college I moved to Midland, TX to work for Apache and did their 3Y rotational program, working in production, completions, and reservoir. I ultimately ended up on the reservoir track, working both conventional and unconventional assets over the years. After 6 years, my family and I had the opportunity to move back to Tulsa for my husband’s job, which led me to working for Williams where I continue to be a reservoir engineer currently.”

What part of your job are you most enthusiastic about? “My job is exciting because I get to wear multiple hats and be exposed to parts of the industry I wouldn’t have in any other role. I’m in a constant state of learning as I get to work multiple basins in the L48 and have the opportunity to work projects that support our primary midstream business. It’s really exciting work!”

How do you think the Oil and Gas industry is going to evolve in the coming years? “That’s such a tough question. There is a lot of momentum towards being more environmentally responsible so I think there will be a lot of opportunities to be a part of that in the coming years. However, our industry is still needed for many, many years to come. What we do provides resources that are essential for most of our livelihoods, whether directly or indirectly.”

Any advice for current/prospective Petroleum Engineering Students? “I want my biggest advice would be to get as much field experience as you can get. Learn the process from subsurface, to wellhead, to sales. So much knowledge can be gained from the operators in the field every day. Taking the time to learn from them will benefit you in more ways than you think once your back in the office. Whether that’s having a better understanding of what you are asking for or seeing from the field, or having them on your side when you are needing their help on something. Relationships are everything in this industry and it’s a smaller world than you would ever think.”



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SPE Mid-Continent Section

Presentations / Meetings

MAY 2024

WEDNESDAY, May 15, 2024 | Luncheon Meeting | 11:20 am -1:00 pm.

Location: OSU Tulsa Conference Center, 700 N. Greenwood, Tulsa, OK 74106.

Room: **North Hall Room 118** (An interactive campus map is available at <https://tulsa.okstate.edu/map> showing the location of the conference center and where parking is available.)

Speaker: Kevin Wutherich, Drill2Frac

Topic: “Minimizing FDI Impact on Production Through Depleted Fracture Identification and Completion Optimization”

Register: To register and pay by credit card, or to make reservations to pay with cash or check at the door,* go to <https://spemc051524.eventbrite.com>. Registration ends Tuesday, May 14th at 10:00 a.m.

Description: Fracture-driven interactions are currently one of the greatest challenges in field development. During fracture stimulation, when an infill well hydraulically connects to an existing, producing well, the results can range from minor, such as reduced production from the child well, up to and including a catastrophic loss of the offset-producing well.

Our talk will shed light on an approach that leverages data gathered during the drilling process of every well to inform operators where FDI's are most likely to occur. Using this data and proven completion optimization techniques, proactive measures can be taken to mitigate interactions where they are most likely to occur.

The heart of this strategy lies in Depleted Fracture Identification, a method that allows engineers to precisely pinpoint pre-existing fractures that have a localized depletion halo around them utilizing only the drilling data obtained from the infill well. By identifying which stages are at high risk of fracture interactions, engineers can proactively implement mitigation strategies that minimize the negative impacts of FDIs on parent wells. The second approach utilizes a completion design simulator to predict which clusters are most likely to produce dominant fractures based on aspects such as heterogeneity in rock properties, as well as perforation and pump design.

Watch for announcements about future meetings and events in this newsletter or by email. 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. In-person luncheon cost is \$20.00 for Professionals, Retired, Unemployed, Graduate Students, and free for Undergraduate Students. Payment by credit card is for advanced registrations ONLY, no credit cards will be accepted at the meeting, only check or cash accepted at the door with a reservation.

Ultimately a case study will be presented that shows how using a combination of these approaches not only improves productivity of the child well but also enhances overall reservoir recovery by protecting the pre-existing producers.

Speaker Bio: Kevin Wutherich is chief technology officer at Drill2Frac. With more than 25 years' experience, including roles at Schlumberger and Rice Energy, he is a seasoned expert in fracturing, reservoir engineering and frac modeling. While at Schlumberger, he was instrumental in many of the first European shale fracs, played key roles in optimizing Marcellus Shale development, and won dozens of technical achievement awards along the way. Mr. Wutherich continues to develop cutting-edge technologies for completion and data applications, and he is lead author on five patents. A University of Waterloo graduate, he holds a BAsC in chemical engineering.



The graphic features the SPE EnergyStream logo at the top center, with the tagline 'The Industry's Digital Pulse' below it. On the left side, it lists 'Live SPE Live' and 'SPE Event Presentations'. On the right side, it lists 'On-Demand Webinars' and 'Tech Talks'. At the bottom, there is a 'WATCH NOW' button, the URL 'go.spe.org/SPE_EnergyStream', and an illustration of a person interacting with a laptop displaying a bar chart and other data visualization elements.

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PetroWiki

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.

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