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Mid-Continent Section
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Mid-Continent Section Monthly Newsletter

February 2015
Issue No. 410

SPE Mid-Continent Section

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Young Professionals:			
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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 address requests should be made to SPE in Richardson, TX, 800-456-6863.

Chairman's Gavel

Ashley Jorishie, 2014-2015 Mid-Continent Chairman

The SPE Mid-Continent Section is starting off 2015 right! It was great seeing everyone at the Summit Club for our second Distinguished Lecturer for this term, Mr. Joe Frantz Jr. With oil prices what they are at the moment, I thought it was perfect timing to discuss the implications that technology, governments, regulators, academia, and the public have on the world's energy supply and demand equation. Though I do not personally work in shale, I saw a lot of similarities regarding the challenges that we face here in Oklahoma.

February 18th brings us Mr. Jerry Fritsch who will be discussing Solid Expandables at the Summit Club. For those of us in operations, this will be a great talk on re-fracing opportunities and wells with casing integrity issues and some equipment used to aide in those projects. I hope to see you all there!

As a reminder on the Distinguished Lecturer Program, if anyone has someone in mind that they think would be a great candidate for the program, please visit the following website: www.spe.org/dl/nominations.php . Nominations are open from February 1 – March 15.

We are continually looking for feedback or ideas for upcoming events, so please don't be afraid to shoot any of the board members an email! We are here to serve you!

Kind Regards,

Ashley Jorishie
2014-2015 Chairman
ashleyjorishie@gmail.com

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SPEMC YP HOSTS

Engineers Night Out

Come network with local engineering professionals and discuss business, innovation, and all things engineering in the Tulsa area with the SPEMC Young Professionals and the Tulsa Engineering Foundation. This is a great opportunity to establish industry contacts and network in Tulsa's extensive engineering community, while enjoying free appetizers, Tuesday, February 24th at McNellie's Downtown (upstairs). Visit the event webpage for more information & to RSVP: **www.asmetulsa.com/home/tef-eno**.

A Free Service for Mid-Continent Section Members and Their Employers

SPE is offering a new free service to section members and their employers for the posting of jobs offered by employers (please, no third party recruiters) seeking to hire SPE members and for members seeking employment. Unless otherwise arranged, ads will stay on the website for one calendar month. To view available jobs go to the section website **www.spemc.org** and select Help Wanted/Situation Wanted. To submit an ad (120 words or less, please) e-mail **spemc@spemc.org** for consideration.

From Your Editor

Betty Felber, 2014-2015 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 Summit Club to enjoy a great talk on oil pricing on February 18th. See you there.

Your Editor,
Betty Felber



Calendar of Events

Wednesday, February 18, 2015 - Summit Club

- Luncheon Meeting, Jerry Fritsch, Enventure Global Technology, "Avoid Oil Price Anxiety! Rx = Solid Expandables!"

Thursday, March 19, 2015 - Summit Club

- Luncheon Meeting, Sheri Bowman-Young, ESG Solutions, "HA Decade Monitoring Shale Gas Plays Using Microseismicity: Advances in the Understanding of Hydraulic Fracturing"

All SPE luncheons are held at the Summit Club unless otherwise noted - See p7 for more details.

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2014-2015 Membership News

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SPE wants to thank you for being part of our global network of industry professionals who are dedicated to enhancing the technical & professional excellence in the industry. We hope you'll continue to be a part of this diverse, worldwide community. Renew your membership online today at **www.spe.org/renew**.

No new members or transfers to report for February 2015



FEBRUARY 2015

WEDNESDAY, February 18, 2015 - Luncheon Meeting
Location: Summit Club, 30th Floor, Banquet Room
Speaker: Jerry Fritsch, Enventure Global Technology
Topic: " Avoid Oil Price Anxiety! Rx = Solid Expandables!"

Register: **http://spemc021815.eventbrite.com**

Description
You may not be able to control the price of crude oil or natural gas, but you can influence the efficiency by which you find and produce reserves. Given market conditions many of you are likely evaluating well remediation projects. This talk will focus on ways to maximize your production by utilizing solid expandables. Using existing infrastructure has long been recognized as a best practice - by the way - existing infrastructure includes those existing wellbores. Solid expandables have been used by operators to maximize value for over 15 years - it's all about maximizing ID at TD. Two specific applications of solid expandables, sidetracking and recompletions, presently are maximizing value in an environment where margins have changed significantly. Together we'll look at how well construction that "plans in" solid expandables are maximizing value for the operator. Let's maximize your production.

Speaker
Jerry Fritsch
Jerry Fritsch is the Global Drilling Solutions Manager at Enventure Global Technology. He has over 40 years of engineering, operations and management experience; he started his career with ConocoPhillips, where he worked for 30 years. Jerry has been in the service sector since 2005, when he joined Enventure. With a career focused on wellbore construction, he has published numerous trade journal articles and has presented at international conferences. He is a member of the Society of Petroleum Engineers and earned a BSc in Mechanical Engineering from LeTourneau University.

MARCH 2015

THURSDAY, March 19, 2015 - Luncheon Meeting
Location: Summit Club, 30th Floor, Banquet Room
Speaker: Sheri Bowman-Young, ESG Solutions
Topic: "A Decade Monitoring Shale Gas Plays Using Microseismicity: Advances in the Understanding of Hydraulic Fracturing"

SPE Mid-Continent luncheon meetings are held at various loactions around the Tulsa area. Please see the location details for each meeting. Summit Club is located at 15 West Sixth Street (NE corner of 6th & Boulder)

SPE Mid-Continent luncheon meetings are held from 11:20-1:00 p.m. unless otherwise noted. To register and pay by credit card, or for reservations to pay at the meeting by cash or check, go to the corresponding link for a luncheon. Luncheon cost is $25.00. Payment by credit card is for advanced registrations ONLY, no credit cards will be accepted at the meeting. Credit card sales will stop one hour prior to the meeting.

Register: **http://spemc031915.eventbrite.com**

Description

Over the past decade, microseismic monitoring has become the most widely used approach to understand of in-situ reservoir behavior during hydraulic fracture stimulations. From early monitoring performed in the Barnett Shale to current programs in the Horn River and Marcellus formations, we review the evolution of microseismic monitoring from the viewpoint of data collection (single versus multi-well array configurations, use of long lateral stimulation wells), data analysis and the incorporation of microseismic parameters to constrain and validate reservoir models.

We conclude with a look at multi-array microseismic results from hydraulic fracture stimulations of various North American shale plays to illustrate how microseismic analysis has aided in the understanding of reservoir characteristics and in turn, helped to plan more effective stimulation programs. We highlight case studies where microseismic monitoring was used to help assess fracture dimensions, stage spacing and well spacing. In addition, we look at how the use of advanced analysis techniques such as seismic moment tensor inversion (SMTI) has helped propel the industry forward and allowed operators to gain a better estimate of the stimulated reservoir volume, the discrete fracture network and the effective fluid flow by understanding details on individual rupture mechanisms and how these mechanisms change depending on treatment program, local stresses and local geology.

Speaker

Sheri Bowman-Young

Sheri Bowman-Young is an engineer and senior level manager with ESG's global energy services division, where she oversees all analysis, interpretation and reporting for microseismic projects related to hydraulic fracture mapping and reservoir monitoring. Sheri joined ESG in 2007 as a geophysicist and has since held positions of Geophysical Analyst, Project Manager and Manager of Data Services. Sheri has played an integral role in the growth of ESG's FRACMAP services, leading efforts to better understand microsiesmic data beyond traditional event location while educating operators on the additional value that can be extracted from microseismic datasets. Sheri is a registered professional engineer (P.Eng.) and a member of the SPE and SEG. She holds dual degrees from Queen's University in Kingston, Ontario in Applied Math & Mechanical Engineering and Geological Sciences and has authored or presented over 20 papers on microseismic monitoring.

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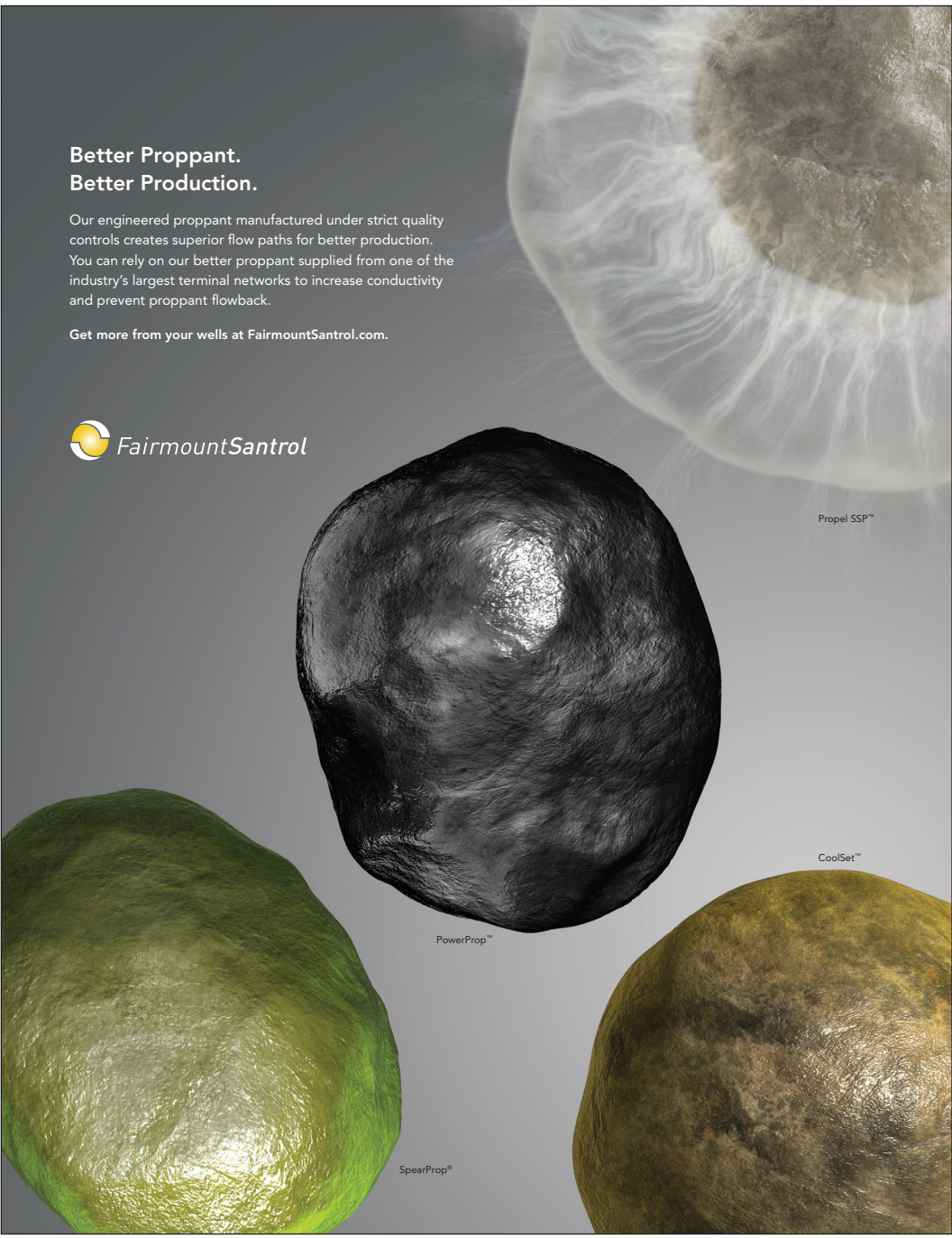

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Society of Petroleum Engineers

"Be sure you put your feet in the right place, then stand firm."

– **Abraham Lincoln**

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