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Mid-Continent Section
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Mid-Continent Section Monthly Newsletter

April 2015
Issue No. 412

SPE Mid-Continent Section

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Young Professionals:			
Charley Mathis, Cudd Energy Services	918-585-9807	918-629-5853 (c)	cmathis@cudd.com
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Sporting Clays Tournament:			
Mark Carr, Kaiser Francis	918-491-4369	918-491-4691	markc@kfoc.net

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

Chairman's Gavel

Ashley Jorishie, 2014-2015 Mid-Continent Chairman

Greetings All,

March's Mid-Continent SPE Luncheon was a full house! Ms. Sheri Bowman-Young's discussion on micro-seismic monitoring was very interesting and the questions that our section provides are always so insightful. This month we are lucky to have our third and final Distinguished Lecturer of the year, Mr. Brian Gahan. Brian will be discussing laser technology, specifically applied to perforating. This event will be at the Summit Club on April 8th.

It is time to start thinking about our officer elections! If you are interested in becoming more involved with the Mid-Continent SPE Chapter, or know someone who is, please shoot me or any of the other officers an email. We will be accepting nominations in April.

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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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 web-site 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

Yea!! April is here. No more snow or cold weather.

Can you believe it? This month's activities are the next to last ones before the summer hiatus. Our April the 8th meeting is all about utilizing lasers to perforate our wells. We also have an April 29th meeting. Hope to see you at both of them.

Another sign of spring is the 1st Steering Committee meeting for the 2016 IOR Symposium has been held. There is room for more Mid-Continent members to have active parts on this committee. Our General Chair for the Symposium invites your input.

Your Editor,
Betty Felber

YP Happy Hour

Join us for a Young Professionals Happy Hour
Thursday, April 16th, 5:30-7:00pm
McNellie's Downtown (upstairs)
Contact Charley Mathis for more info, (**cmathis@cudd.com**).

Calendar of Events

Wednesday, April 8, 2015 - Summit Club

- Luncheon Meeting, Brian C. Gahan, Laser Rock Technologies LLC | *Distinguished Lecturer* | "Perforating With Lasers: Are You Ready for the Power of Light?!"

Wednesday, April 29, 2015 - Summit Club

- Luncheon Meeting, Gary Bing Wines "Today's Petroleum Engineering Professional Registration Process"

Wednesday, May 6, 2015 - Summit Club

- Luncheon Meeting, Greg G. Gilfillan, Baker Hughes Inc. Artificial Lift Division, "Electrical Submersible Pumps Solutions: Overcoming Today's Challenges with New Technology"

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

57% Pass 2014 Petroleum PE Exam

NCEES and the State Engineering Boards released their 2014 Professional Engineering Exam results. Nationwide, the Petroleum Engineering Exam recorded a 57% pass rate. The Petroleum first time takers passed at a 71% rate. The estimated pass rates of a few other engineering disciplines were:

Chemical	**60%**	**Agricultural**	**71%**
Civil	**55%**	**Fire Protection**	**54%**
Electrical	**53%**	**Industrial**	**61%**
Environmental	**49%**	**Metallurgical**	**40%**
Mechanical	**65%**	**Mining**	**83%**
Nuclear	**61%**	**Control Systems**	**74%**

The Petroleum pass rates in 2014 for a few states:

Alaska	**71%**	**Louisiana**	**78%**
California	**38%**	**Oklahoma**	**81%**
Colorado	**70%**	**Texas**	**67%**

What are the requirements to take the Petroleum PE Exam? Today, Oklahoma requires that you have:

1. **An engineering, math or science degree.**
2. **Passed the Fundamentals, or FE Exam.**
3. **At least four years of professional experience.**

Interested? Contact the Oklahoma State Engineering Board at (405) 521-2874 for application forms. State web sites are also available at: www.ncees.org/licensure/licensing_boards. The Oklahoma application deadline to take this years PE Exam is June 1, 2015. This year's test will be given on Friday, October 30, 2015.

Petroleum PE Review Course

Winrock Engineering, Inc. is offering a Petroleum PE Review Course in Oklahoma City from August 17 through August 21, 2015. For more information, contact:

Winrock Engineering, Inc.
P. O. Box 42296
Oklahoma City, Ok, 73123
Web Site: Winrockengineeringinc.com
Phone: (405) 822-6761 E Mail: bingwines@cox.net

Member Appreciation Day

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

WHAT: Tulsa Drillers (affiliate of the Los Angeles Dodgers) vs. Arkansas Naturals (affiliate of the Kansas City Royals)

WHERE: ONEOK Field, (201 N. Elgin Avenue Tulsa, Oklahoma 74120), Coors Light Refinery Deck (please enter at the Arvest Entrance at the corner of Elgin Ave and Brady St.)

WHEN: Sunday, April 26, 2015

RSVP: spemcmbrday15.eventbrite.com

Mark your calendars for Sunday afternoon, the 26th of April 2015, as our Tulsa Drillers take on the Arkansas Naturals at 2:05 p.m. 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 continuous support. Gates open at 12:30 PM, Kids Clinic 12:45 to 1:15 PM, BBQ Lunch from 1:00-3:00 PM, Game starts at 2:05 PM.



APRIL 2015

WEDNESDAY, April 8, 2015 - Luncheon Meeting
Location: Summit Club, 30th Floor, Banquet Room
Speaker: Brian C. Gahan, Laser Rock Technologies LLC |*Distinguished Lecturer*|
Topic: "Perforating With Lasers: Are You Ready for the Power of Light?"

Register: **http://spemc040815.eventbrite.com**

Description
Lasers are on track to provide safe, non-explosive, damage-free perforations.
For decades, experts have considered the potential of laser energy to penetrate rock as an alternative well construction and completion method. However, applications of lasers were dismissed as energy intensive and inefficient. Conclusions from nearly 50 years ago continue to affect industry misconceptions despite massive technical developments in laser systems and their applications.

Current industrial laser technology addresses efficiency, portability and reliability issues required for successful commercial field applications on all rock types, including shale. The latest multi-mode configuration of fiber lasers are now capable of delivering multiple kilowatts of power from an efficient, compact laser source with excellent beam quality, reliability and long life. They represent an enabling technology that opens the door for near-term subsurface laser applications under field conditions. Examples of remote surface field applications have been made.

The application of high power lasers for perforating could significantly reduce the primary drawbacks over traditional methods – safety and damage. Lasers can cut through steel, cement and rock, to permit fluid flow with minimal skin damage. Laser perforation concepts were proven under multiple downhole conditions, including pressure. Many drilling, completion and subsurface applications with high power lasers are envisioned.

Speaker
Brian C. Gahan



Brian C. Gahan is founder and president of Laser Rock Technologies, LLC, a private energy consulting firm in Cary, Illinois, USA. He was a Senior Scientist and Manager, E&P Technology Development for 16 years at Gas Technology Institute (GTI) in Des Plaines, Illinois. He holds a BS in petroleum engineering, Masters in chemical engineering and an MBA in finance, and a registered professional engineer. He is a member of several professional organizations, including the SPE since 1980, and as a fellow of the American Institute of Chemical Engineers (AIChE). Gahan has authored and co-authored more than 40 papers and technical publications, and is a co-inventor on a U.S. Patent.

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.

APRIL 2015

WEDNESDAY, April 29, 2015 - Luncheon Meeting
Location: Summit Club, 30th Floor, Banquet Room
Speaker: Gary Bing Wines
Topic: "Today's Petroleum Engineering Professional Registration Proce"

Register: **http://spemc042915.eventbrite.com**

Description
Today's Professional Registration process involves eight distinct steps for the Petroleum Engineer. The first step is obtaining a college degree. The second step is applying to take the Fundamental Exam (FE) – usually in the last year in college. The third step is taking and passing the Fundamental Exam. The fourth step is obtaining a minimum of four years of industry experience. The fifth step is applying with a state board to take the Professional Exam (PE) in Petroleum Engineering. The sixth step is getting approval from a state board to take the PE Exam. The seventh step is taking and passing the common national Petroleum Engineer Exam. The eighth and final step is obtaining a state board recognized Professional Engineering stamp.

The Petroleum Engineering PE Exam first arrived in 1973 and has seen many changes over the years. It was an objective style exam for over twenty years. Now it is a full multiple choice exam. The overall pass rates have averaged 70% over the past fifteen years. The PE Registration requirements have also improved and stiffened over the past two decades. The post-Macondo effect was seen, for the first time, on this past year's Petroleum PE Exam.

Speaker
Gary Bing Wines



Graduated from the University of Oklahoma in 1962 with a B.S. Degree in Petroleum Engineering. He worked for Cities Service Oil Company in Odessa, Texas, and Great Bend, Kansas. He moved to Oklahoma City and worked for Tenneco and Lear Petroleum before getting into the Consulting business in 1976 as Winrock Engineering, Inc. He was a member of the SPE Engineering Registration Committee from 1973 to 1989 (16 years) and was chairman for two terms in 1975 and 1976. He prepared and scored Petroleum Professional Exams for SPE and NCEES in the mid 1970's and helped to prepare and score exams through 1986. He was the primary author of the first edition of the SPE book, "A Guide to Professional Registration for Petroleum Engineers" in 1979 and helped re-edit it through its fifth edition in 1985. He

helped set up and co-instructed the first Professional Registration Review Course for Petroleum Engineers in 1979 for SPE and continued to co-instruct the Course through 1988 for SPE. Since 1989, he has continued to instruct similar P.E. Review Courses throughout the U.S. He has authored several papers on Professional Registration. He is currently a licensed Professional Engineer in Oklahoma. He became a SPE Distinguished Member in 1987, received a SPE Regional Service Award in 1989 and became a fifty year SPE member in 2015.

MAY 2015

WEDNESDAY, May 6, 2015 - Luncheon Meeting
Location: Summit Club, 30th Floor, Banquet Room
Speaker: Greg G. Gilfillan, Baker Hughes Inc. Artificial Lift Division
Topic: "Electrical Submersible Pumps Solutions: Overcoming Today's Challenges with New Technology"

Register: **http://spemc050615.eventbrite.com**

Description
Artificial lift challenges in Oklahoma have increased as deviated and extended reach wells have grown in number and complexity. Electrical submersible pump (ESP) technology has evolved to meet ever increasing production demands in the face of many new obstacles. Rapid production decline, high dog leg severities, severe gas slugging, and proppant flowback are commonly encountered issues when producing from modern day wells. We examine how the application of new and existing ESP technology has helped to overcome these current challenges while providing both increased and consistent oil production.

Speaker
Greg G. Gilfillan
Greg G. Gilfillan is a field engineer and project manager with Baker Hughes Inc. Artificial Lift Division. He has worked to develop and implement several new ESP technologies including multiple variations of artificial sump solutions in the Mississippian Lime and Permian plays. He holds a BS in Petroleum Engineering from the University of Tulsa and has been a member of SPE since 2011.

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Membership

2014-2015 Membership News

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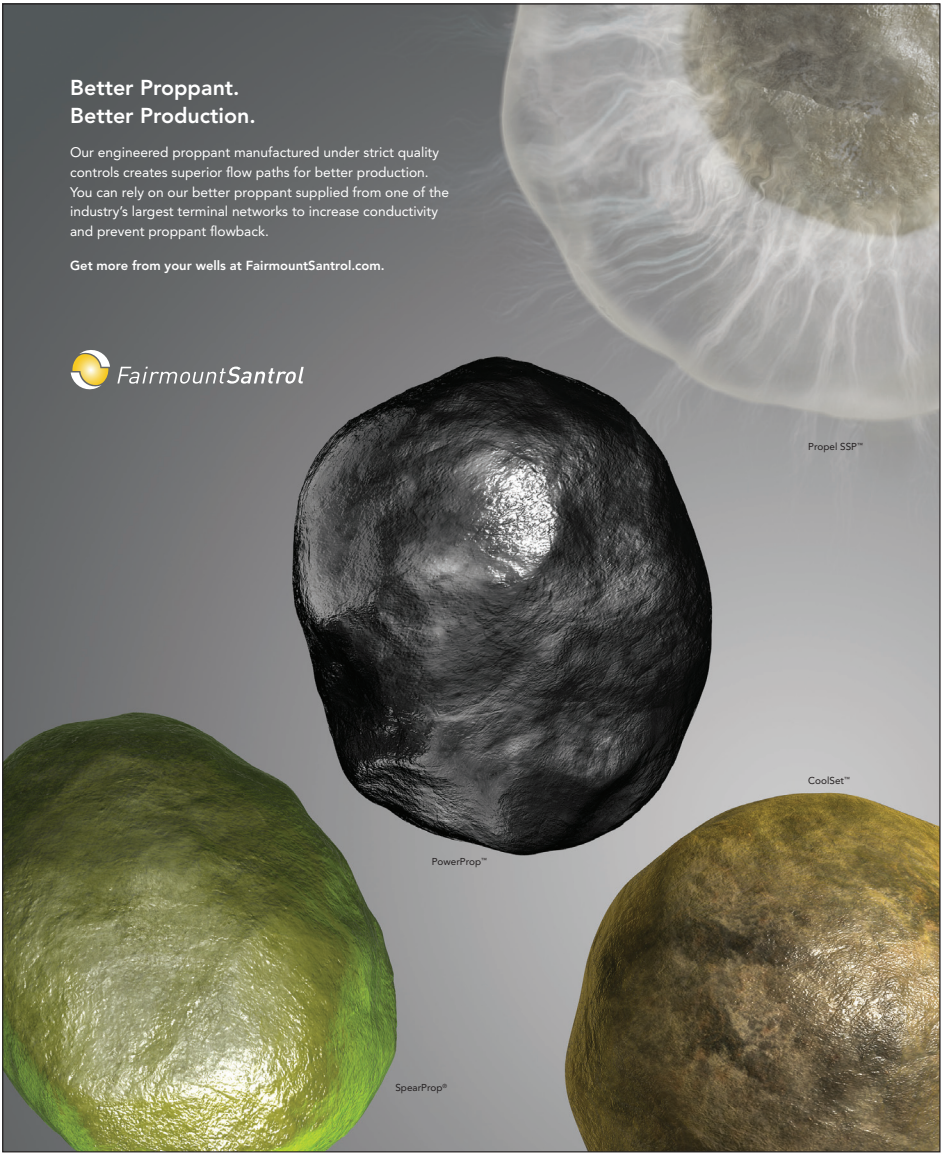
No new members or transfers to report for February 2015



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Society of Petroleum Engineers

"There are no traffic jams on the extra mile"

— **Zig Ziglar**

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