



Four Corners Petroleum  
Section

# Society of Petroleum Engineers Four Corners Petroleum Section

## August 2014 Newsletter

[www.spe.org](http://www.spe.org)

### 2014 – 2015 Board of Directors

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### Contact Us At:



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Farmington, NM 87499

<http://connect.spe.org/FourCornersPetroleum>

### Welcome from the Section Chair:

**Forest Bommarito**

Team SPE Four Corners Section,

Hopefully you all had a great summer and are excited for fall and the associated cooler temps, changing colors, and another exhilarating season with the SPE. I am enthusiastic to be serving as the new Section Chair for the upcoming 2014-2015 season. Over the past few years the Board has put in a tremendous amount of effort to transform the Section, and with that transformation comes higher expectations in all levels of service to the membership. As in previous years, focus will continue to be directed on the core functions of the Section, including:

- **Knowledge dissemination:** provide interesting and relevant speakers, continue to increase attendance at monthly luncheons, and provide appropriate training opportunities to the section;
- **Scholarship Program:** cast a wider net to increase number of applicants, introduce tiered award levels to increase the financial impact to recipients, and maintain focus on the primary funding mechanisms of the Skeet Shootout and the Four Corners Oil and Gas Conference;
- **Communication:** clear and timely communication to the membership through the newsletter, website, and email correspondence; and
- **Membership:** continue to meet the demands of current members while also leveraging existing members to attract new energy industry engineers to the Section.

I am confident that the Board has the skills and motivation to accomplish these goals. Gavin has left the Chair position in great shape and fortunately he will still be serving on the Board in a Director role, advising the Section while also continuing to coordinate the annual Scholarship Skeet Shoot Fundraiser.

Also returning as Directors is the one-two John-John combo of John Thomas (JT) and John Roe (JR). They continue to provide oversight, feedback, and leadership after serving previously as Scholarship and Energy4Me Chairs, respectively. Kristin has transitioned from her previous position of Secretary into Program Chair, where she will certainly coordinate another year of record luncheon attendance. Olivia has agreed to take on yet another year as Treasurer, continuing to keep the books in balance while keeping the Board as organized and on track as possible. New to the Board this year is Sara Euser, backfilling for Kristin in the Secretary role, and bringing new perspectives on the newsletter and communications. The other primary communication tool, <http://connect.spe.org/FourCornersPetroleum/Home/>, will be updated and maintained by returning Webmaster, Aliph. Ethan has stepped into the Scholarship chair and will certainly use his youthful passion to help award and recruit another class of future SPE members. Another new Board member is Brandon Shaw, who will continue the huge task of public education and knowledge transfer as Energy4Me Chair.

With new additions to the Board also come departures, and this season we are disappointed to be saying farewell to Tyson Foutz after nearly a **decade** of service to this Section! We will miss his hard work, dedication, and certainly his humor. We wish Tyson continued success in his consulting and welcome his input any time he is around.

Overall we are looking forward to another great year and are always welcome to any questions, comments, or concerns in order to get the most out of the Board. We strive to deliver continued value from SPE, and certainly are always looking for additional volunteers.

Thanks again and have a great day.

**FOREST BOMMARITO**

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## **SPE Training Course Available:**

### ***Artificial Lift and Production Optimization Solutions – September 17-18***

*Please find course details and registration information on page 6.*

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## **Congratulations!** ***SPE Four Corners Scholarship Recipients***

This year, the SPE Four Corners Section awarded a total of \$18,000 in scholarships to students pursuing a college degree that will lead to a career in the energy industry:

### Returning Students:

- Dylan Larson
- Francisco Sanchez
- Delton Trosky
- Austin Riley
- Leslie Nelson
- Michala Hall
- Pierce Lovesee
- Jared Upshaw
- Essiel Carrasco
- Jacob Schirer

### New Students:

- Luke Byrom
- Kevin J Weiss
- Thomas Schmidt, JR.
- Daniel Strickler
- Rory Eavenson
- Bliss Campbell
- Phillip J Lane
- Joseph Ramalho
- Kyle Henderson
- Hance Clark



The Four Corners Petroleum section of the Society of Petroleum Engineers is offering the **energy4me** program to anyone requesting good and defensible information about energy issues. We will tailor our presentation to meet the needs and concerns of you and your audience.

*To schedule a presentation please contact Brandon Shaw with Bayless at 505-326-2659 or Gavin Tweedie with Exterran at 505-320-3359.*

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## 2014 Oilman's Shootout

***Thank You from Section Chair***

Thank you to all those that helped support this year's SPE Oilman's Shootout. This year's event was a great success with 17 teams shooting—a lot of fun was had by everyone that attended.

This year we raised **\$4,340** that will be used to support our scholarship program and help send local students to college and post-secondary education. Without the support of companies in this area we would not be able to help as many kids reach their goals of higher education.

We have a large number of Scholarship applications this year and have seen some very good candidates. We expect to have selected the successful applicants soon and award the scholarships later this month.

We look forward to future support and we welcome any suggestions you have to improve the success of this event.  
Regards,

*Gavin Tweedie, PE*

SPE Four Corners Section

Our wonderful range sponsors included: **Nalco, Merrion Oil & Gas, TriStar Construction, Inc., XTO Energy, Red Willow Production Co., Exterran, and Halliburton.**

***Thanks to all our sponsors and participants for such a successful fundraiser event!***

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## First SPE 4 Corners Meeting

***Lunch & Lecture – September 15***

Please join us for the first meeting of this year. David Simpson with Muleshoe Engineering will be speaking.

**Who:** **Mr. David Simpson (Muleshoe Engineering)** will be presenting on facilities selection impacting reservoir performance.

**When:** **Monday, 15 September 2014**  
**11:30 am – 1:00 pm**

**Where:** **San Juan College, Suns Room (Student Center, near cafeteria)**  
**4601 College Blvd. Farmington, NM**

Please find Suns Room on the SJC [Campus Locator](#) or the maps on the following page.

**Cost:** **\$20 with RSVP, \$25 at the door**

Please RSVP through the event at the **Four Corners Section website** (instructions on page 10) **no later than NOON on September 12.** Any RSVP made apart from the SPE website will be charged \$25 at the door.

Please find the abstract and biography for the speaker on Page 5.

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## 2014 – 15 Meeting & Events Schedule

***Save the Date!***

### **Monday, September 15, 2014**

**David Simpson**, Muleshoe Engineering:  
*Facilities Selection Impacts Reservoir Performance*  
**San Juan College, Suns Room**

### **Wednesday-Thursday, Sept. 17-18, 2014**

**Rajan Chokshi**, instructor:  
*Artificial Lift & Production Optimization- 2 day SPE Short Course*  
**San Juan College, Quality Center for Business, Room 5025**

### **Thursday, October 16, 2014**

**D.V. Satya Gupta\***, Baker Hughes:  
*Fracturing Fluids: How to Frac with Less or No Water*  
**San Juan College, Henderson Hall 9006**

### **Thursday, November 6, 2014**

**Michael Zuber\***, Schlumberger:  
*Tight Coalbed Methane, a Giant Worldwide Resource: How do we produce it? (Challenges and Solutions)*  
**San Juan College, Room 7103 (IT Center)**

### **December 2014**

Holiday Social  
**TBD**

### **Thursday, January 15, 2015**

**TBD**

### **Thursday, February 19, 2015**

**TBD**

**Thursday, March 19, 2015**

TBD

**Thursday, April 16, 2015**

TBD

**Monday, May 18, 2015**

**B.R. Reddy\***, Halliburton

*Oil Field Chemicals - and Global Issues that Influence Them*

\*denotes SPE International 2014-15 Distinguished Lecturer Series

## Meeting Venue *San Juan College*

The SJC Student Center is located here:

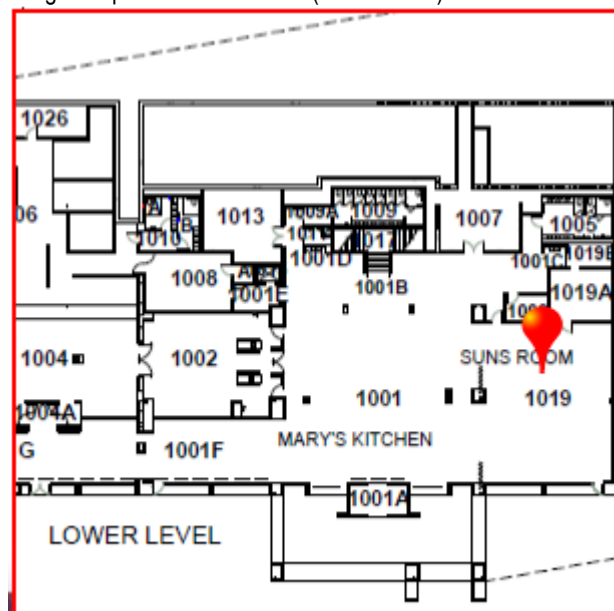


Exterior of the building:



[Campus Locator](#)

Building floor plan for Suns Room (Lower Level):





# 2014-2015

SPE FOUR CORNERS SPEAKER

***David Simpson, MuleShoe Engineering***

## Facilities Selection Impacts Reservoir Performance



**David Simpson** has 32 years of experience in Oil & Gas and is currently the Proprietor and Principal Engineer of MuleShoe Engineering. Based in the San Juan Basin of Northern New Mexico, MuleShoe Engineering addresses issues in Coalbed Methane, Low Pressure Operations, Gas Compression, Gas Measurement, Field Construction, Gas Well Deliquification, and Produced Water Management. Prior to forming MuleShoe Engineering, Mr. Simpson was a Facilities Engineer for Amoco and BP for 23 years. A Professional Engineer with his Master's degree, David has had numerous articles published in professional journals, has contributed a chapter on CBM to the 2<sup>nd</sup> edition of *Gas Well Deliquification*, by Dr. James Lea, et al. He is a regular contributor to various conferences on Deliquification, CBM, and Low Pressure Operations. He holds a BSIM from the University of Arkansas and an MSME from University of Colorado.

### Abstract

Facilities decisions are often disconnected from anticipated reservoir performance. A frequent result of this disconnect is operating reservoirs in a sub-optimum manner to protect surface facilities that have inadequate strength. This paper will review the facilities decisions that have been made in several Coalbed Methane (CBM) and Coal Seam Gas (CSG) fields around the world and discuss the reasons for and the impact of those decisions on the performance of the reservoirs. The source of the disconnect is that "everyone knows" that CBM and CSG fields "require very low pressures". With that assumption you then apply safety and procurement principles to come to a design. There is a stage in the production life of these fields where very low pressures are required for reasonable recovery levels, but that stage is typically reached 10-15 years after first production. Setting late-life surface facilities at first-production results in choking the reservoir for over a decade, setting compression many years before it is actually required, and less ultimate recovery as a percentage of original gas in place than would otherwise be achieved. These problems can be overcome by understanding the life cycle performance and risks of an unconventional reservoir and accepting that any tradeoff between facilities performance and reservoir performance must be biased in favor of optimizing reservoir performance in order to have acceptable economic results.

# Society of Petroleum Engineers TRAINING COURSES

Setting the standard for technical excellence.

[www.spe.org/training](http://www.spe.org/training)

## Artificial Lift and Production Optimization Solutions

17-18 September 2014 :: 0800-1700

San Juan College  
Quality Center for Business, Room 5025  
5101 College Blvd.  
Farmington, NM 87402

This course is designed to give trainees an overview of various artificial lift solutions and related production optimization concepts. After introducing participants to the need for an artificial lift system, training will focus on each of the following lift methods: Gas lift, Reciprocating Rod Lift, Progressing Cavity Pumping, Hydraulic Pumping, Electrical Submersible Pumping, Plunger and Capillary System. For each lift type, the course covers main components, application envelope, relative strengths and weaknesses. Animations, field cases, and example-calculations are used to reinforce concepts. A unique feature of this course is discussion on digital oil field as applicable to lift optimization. The course will close with a discussion session wherein trainees would discuss their challenges and plans for lift systems with a view to understand applicability of the concepts learned during the training.

**Learning Level:** *Intermediate*

**Course Length:** *2 Days*

**Why You Should Attend:** *Every oil and gas well requires a lift mechanism at some time-point. Often times during a well's life cycle, changing conditions, necessitate switching from one to another lift method. Each lift system's applicability often overlaps with other lift systems and it is important to understand when to use one and why not to use another. This course while providing instructions at awareness level will arm attendees with sufficient details to participate in informative decision making process.*

**Who Should Attend:** *Anyone interested in learning about lift systems application. Production and field operations engineers, operators, geoscientists, and reservoir engineers who wish to understand the implications of lift systems on their field/reservoirs.*

**Special Requirements:** *Calculator for example calculations.*

Instructor:

### Rajan Chokshi

currently works as a director of training and competency for artificial lift and production optimization for Weatherford International located in Houston, Texas. In a career spanning over 25 years, he has worked on many petroleum and software engineering projects globally in the areas of multiphase flow, gas lift, sucker rod pumping, and production optimization.

Chokshi holds a PhD in petroleum engineering from the University of Tulsa.

Find out more and register at <http://www.spe.org/training/courses/ALP.php>

# Many thanks to our Skeet Shoot sponsors!

## SUPPORTING ORGANIZATIONS



Four Corners Petroleum  
Section



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## RAFFLE SPONSOR



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## **SPE International Upcoming Events**

*It's never too early to plan for...*



Society of Petroleum Engineers  
Annual Technical Conference  
and Exhibition

**27-29 October 2014**  
RAI CENTRE  
Amsterdam, The Netherlands

 SPE International  
Society of Petroleum Engineers

 Host Organisation



## Update Your SPE Membership Profile Today!

Society of Petroleum Engineers



If you have moved, changed jobs, shifted job focus, or found new technical interests, we want to know!

Simply [log in](#) to your SPE membership account and update your membership profile. It takes less than 5 minutes, and will help us serve you better.

[Tell us what's new today.](#)

P.S. Don't forget to update your communication preferences, too. We are now offering you more options in your Communication Preferences to make our emails better targeted to your interests.

# PayPal System

Starting in January 2013, the early registration discount for meetings will require registration and payment before the RSVP deadline. We will be using payment services via PayPal. This requires the ability to access your SPE account online as well as creating a PayPal account (or you can pay as a PayPal Guest). Please use the following instructions on how to RSVP to our monthly events:

## Instructions:

1. Go to the Four Corners website at <http://connect.spe.org/FourCornersPetroleum/Home/>
2. Click the hyperlink for the Luncheon under "Upcoming Events" on the Home Page
3. Review luncheon details, select the "Register Now" hyperlink
4. Login to your SPE account
5. Answer questions for "Select Registrants," select Next
6. Confirm order, select Confirm Registration
7. Sign in to PayPal account (need to create if you don't already have one) OR pay as a PayPal Guest.
8. Review/update PayPal information, select Pay Now
9. Registration complete, receipt will be emailed to your PayPal email address on file

The screenshot shows a web browser window displaying the SPE Four Corners Petroleum website. The browser's address bar shows the URL <http://connect.spe.org/FourCornersPetroleum/Home/>. The website features a blue header with the SPE International logo and the text "Society of Petroleum Engineers Four Corners Petroleum Section". A navigation menu includes links for HOME, ABOUT US, EVENTS, RESOURCES, JOIN SPE, and PARTICIPATE. A prominent banner for "ATCE 2012" (SPE Annual Technical Conference and Exhibition) is scheduled for 8-10 October 2012 in San Antonio, Texas, USA. Below the banner, the "UPCOMING EVENTS" section is highlighted with a red circle, showing the "SPE Luncheon Meeting : Mr. Eric Penner Presenting on 'Linear Rod Pumps'" scheduled for Oct 17, 11:30 AM - 1:00 PM (Mountain Standard Time) in Farmington, NM, United States. Other sections visible include "ANNOUNCEMENTS", "STUDENT SUPPORT", "QUICK LINKS" (with buttons for Renew membership, Scholarships, JPT Online, and OnePetro), and "RECENT BLOGS".