



Four Corners Petroleum
Section

Society of Petroleum Engineers Four Corners Petroleum Section March 2017 Newsletter

www.spe.org

2016 – 2017 Board of Directors

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Contact Us At:



spe4corners@spemail.org

Four Corners SPE
P.O. Box 1526
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<http://connect.spe.org/FourCornersPetroleum>

SPE Training Opportunities

Online – More info in the links below

- [Free Online On-Demand Webinars](#)
- [Free Upcoming Scheduled Webinars](#)

Board of Directors Update

We have much to talk about. First, we recognize that many budgets for training and professional development are tight. In light of this, we've decided to offer a scholarship for an engineer in the oil and gas industry who would like to take a preparatory course for the PE exam. Please review the information on page 5 for application info and details. Only one will be selected.

Also, the Four Corners API section is offering their own student scholarships, similar to our own. If you know of any high school or college students seeking a career in oil and gas, check out the details on the next page and pass it along.

Finally, this spring's SPE Shootout Fundraiser is coming together (Thanks Forest!) This is our big fundraiser for the year, helping to support our student scholarship program. Mark your calendars and choose your teams! See pg. 4.

Four Corners Scholarships

The deadline is **March 17** for our 2017 scholarship program. Please share the links below, or the attached forms in this email, with college or graduating high school students seeking careers in the oil and gas industry. Details and criteria are stated on the forms. Please contact our scholarship chair, Catherine.Finley@bp.com with your questions.

[Application for graduating High School students](#)

[Application for current College students](#)

API Scholarships

Four Corners API is offering \$2000 scholarships for new or continuing college students in a petroleum-related field of study. Applications and criteria can be found on the SPE homepage link below. The deadline for submissions is **April 1, 2017**. Please email your application to Rose Carter, (505) 330-3066, rcarter@trc-construction.com.

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



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 Gavin Tweedie with BP at 505-320-3359.

2016 – 17 Meeting & Event Schedule

Save the Date!

Monday, 13 March 2017

Dr. William Fleckenstein, Colorado School of Mines:
Shale Development - Does Cheap Energy Really Mean Flaming Tap Water? BP Office, Durango

Tuesday, 25 April 2017

Bryan McDowell, Colorado School of Mines:
Inert Gases in the Rocky Mountains: Implications for Risk, Opportunity, and New Understanding in Natural Gas Reservoirs
San Juan College School of Energy, Farmington

Saturday, June 10 2017 (Friday practice)

SPE Shootout, San Juan Wildlife Federation
See page 4 for flyer and additional details.

*Denotes SPE International 2016-17 Distinguished Lecturer Series

SPE 4 Corners Meeting

Lunch & Lecture – March 13

Please join us for the fifth meeting of this year.

Who: Dr. William Fleckenstein, Colorado School of Mines “Shale Development – Does Cheap Energy Really Mean Flaming Tap Water?”

When: Monday, March 13, 2017 11:30AM-1:00PM – Please arrive early to sign in.

Where: BP Durango – 380 Airport Road, Durango, CO 81303 – Rooms 139/140

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

Please RSVP through the event at the Four Corners Section website. RSVP deadline is Monday, March 6, 2017; any RSVP made after or apart from the SPE website will be charged \$25 at the door. The option to attend this month’s meeting, but not purchase lunch has been added to the RSVP method. Student members now have the option to attend, with lunch provided for free.

NOTE: Some may have registration issues if their browser is outdated. Please update, or try Firefox. Please contact our program chair, Philip.J.Ouellette@conocophillips.com with your RSVP questions.

Please find the speaker’s abstract and biography on Page 3.

Meeting Venue

**BP America Production Durango
Office, Room 139/140**

380 Airport Road, Durango, CO 81303



2016-2017

SPE FOUR CORNERS SPEAKER

Dr. William Fleckenstein, Colorado School of Mines



William Fleckenstein is an adjunct faculty member at the Colorado School of Mines, where he served as Interim Petroleum Engineering Department Head 2012-2014, and he also serves as the managing partner in Fleckenstein, Eustes & Associates, consulting on projects worldwide. He holds BSc, ME, and PhD degrees in petroleum engineering and has 30 years of experience primarily in drilling, completions and workovers, with direct experience on over 200 wells and involvement in horizontal wells and stimulations since 1990. Dr. Fleckenstein has numerous publications and patented technologies in multi-stage fracturing, annular seal testing, and downhole hydraulic rotation.

Shale Development – Does Cheap Energy Really Mean Flaming Tap Water?

Abstract

Shale development in the US has been ongoing for at least the last decade, and many lessons can be learned from the US experience to help prevent air emissions and aquifer contamination in future developments around the world. Media reports and films such as "Gasland" imply that shale development is widely polluting fresh water aquifers and the atmosphere, with a wide range of estimates of contamination. This lecture examines the risk of contamination of aquifers through wellbores, either by hydrocarbon migration or hydraulic fracturing operations, and is primarily based on a comprehensive three-year study funded by the US National Science Foundation examining nearly 18,000 wells drilled in the Wattenberg Field in Colorado, plus other relevant studies. In the midst of the Wattenberg field is heavy urban and agricultural development, with over 30,000 water wells interspersed with the oil and gas wells, resulting in a natural laboratory to measure aquifer contamination. Lessons learned have universal applications with clear relationships established between well construction methods in both conventional and unconventional wells and contamination risks.

2017 SPE Shootout Fundraiser

- **What:** Fundraiser for SPE Scholarship Program
- **When:** Practice Friday 09 June; Shootout Sat 10 June
- **Where:** San Juan Wildlife Federation
- **Cost:** \$350 per team
- **Sponsorships:** Platinum, Gold, Silver, Raffle, & Meal
- **Additional info:** contact Forest Bommarito
 - 970.563.5153
 - fbommarito@rwpc.us



Team,

After a one-year hiatus, the SPE Scholarship Shootout Fundraiser is back this spring at the San Juan Wildlife Federation on **Saturday, 10 June 2017!** The local section raises funds to provide annual college scholarships for students of the Four Corners area studying petroleum engineering, other engineering disciplines and fields of study that relate to the petroleum industry. In 2016, the Four Corners SPE Section awarded a total of **\$15,500 in scholarships to eight students** in engineering and science fields. Funding for the scholarship program comes from the sponsorship of local area producers and service companies and in a large part from the Shootout.

We are looking forward to another excellent turn out at the Shootout. This year, we are seeking sponsorships at multiple levels, including Platinum sponsors for the five ranges (\$1,000, headline range sponsor, includes one team entry) Gold (\$500), Silver (\$250), Raffle Sponsor (Shotgun), as well as companies to cook breakfast and/or lunch at the shoot. The cost to participate this year will be \$350 per team. **All entry fees and range sponsorships are due by 31 May 2017.** Please complete the attached entry/sponsorship form if you wish to participate in this event.

For questions feel free to contact **Forest Bommarito** at **970.563.5153** or **fbommarito@rwpc.us**.

Please e-mail entry forms to spe4corners@spemail.org

Thanks again and have a great day!

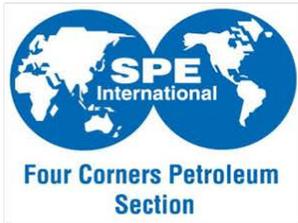
FOREST BOMMARITO

**Download Entry
Form Here!**



2017 4-Corners SPE
Shootout Fundraiser

2017 SPE Scholarship for Professional Certification Prep Course



Requirements/Info

- You must be an active member of the 4 Corners SPE Section
- 1 scholarship available to support a 2017 PE prep course (in-person or web-based) up to \$2000 in cost
- Deadline: April 30, 2017

How to Apply

- Submit the following to spe4corners@spemail.org
 - Resume
 - Statement of why you are deserving of this scholarship, inclusive of confirmation of intent to take PE Exam Fall 2017.

Advertisements:

PROFESSIONAL REGISTRATION REVIEW COURSE FOR PETROLEUM ENGINEERING

COURSE DESCRIPTION: The Course covers most topics that are found on the State Board Petroleum Engineering Professional Examination.

WHO SHOULD ATTEND: Engineers who are planning on taking the PE Examination in Petroleum Engineering this fall. **INSTRUCTOR:** Bing Wines, PE

DENVER COURSE (8:00 AM - 5:00 PM)
Monday thru Friday
September 18 – 22, 2017

For More Information: 405-822-6761
E Mail: bingwines@cox.net
Web Site: winrockengineering.com
WINROCK ENGINEERING, INC.
P. O. BOX 42296 OKLAHOMA CITY, OK, 73123

60% Pass 2016 Petroleum PE Exam

NCEES and the State Engineering Boards released their 2016 Professional Engineering Exam results. Nationwide, the Petroleum Engineering Exam recorded a 60% pass rate. The Petroleum first time takers passed at a 66% rate. The pass rates for a few other engineering disciplines were:

Chemical	64%	Agricultural	71%
Civil	62%	Fire Protection	55%
Electrical	58%	Industrial	67%
Environmental	54%	Metallurgical	65%
Mechanical	69%	Mining	58%
Nuclear	71%	Control Systems	73%

The Petroleum pass rates in 2016 for a few states:

Alaska (4/5)	80%	Louisiana (9/15)	60%
California (0/3)	0%	Oklahoma (14/17)	82%
Colorado (4/5)	80%	Texas (92/158)	58%

What are the requirements to take the Petroleum PE Exam? Today, Colorado 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 Colorado State Engineering Board at (303) 894-7800 for application forms. State web sites are also available at: www.ncees.org/licensure/licensing_boards. The Colorado application deadline to take this years PE Exam is June 1, 2017. This year's PE Exam will be given on Friday, October 27, 2017.

SPE Four Corners Sponsorship

There is now an opportunity for non-profit groups seeking sponsorship to apply for funding through Four Corners SPE. As an example of sponsorship opportunities, last year, SPE Four Corners sponsored a Lego League Team, a global program created to get kids excited about science and technology.

Please find the necessary documentation [here](#) and submit to Olivia Bommarito. The donation form can also be found on the Four Corners SPE home page.

Donation Request Form

SPE Four Corners

Date of Application:	
Organization Name and Address:	
Contact Person and contact information (phone & email):	
Amount Requested:	
Intended Use:	
How does funding need align with SPE Four Corners objectives? (see below)	
Date Deadline for Funding:	
Have you received previous SPE funding? (please provide detail)	
SPE Reference Contacts:	

Form Instructions: Complete form as indicated and email to Olivia.bommarito@bp.com

SPE Four Corners Objectives:

To collect, disseminate, and exchange technical knowledge concerning the exploration, development, and production of oil and gas resources, and related technologies for the public benefit; and to provide opportunities for professionals to enhance their technical and professional competence. The secondary purpose of the Section shall include the promotion of engineering education through scholarships and community outreach.

Update Your SPE Membership Profile Today!



Society of Petroleum Engineers



Welcome,

[My profile](#)

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.

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.