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SPE

SPE Denver Section is excited to launch the 2016/2017 season! We've updated our Section By-Laws and we'll be voting on them at this month's General Meeting. You can review the new By-Laws before the meeting [here](#).

We are also offering two season pass packages: [September - December](#) and [January - May](#).

Read on for details on upcoming events.

Cheers,

Marija Mircevska

Newsletter Editor

**September 6, 2016**

## GENERAL MEETING

### Two Vital Secrets for Building Better Type Wells

*Randy Freeborn, Energy Navigator*

Distinguished Lecturer



Denver Athletic Club



September 21, 2016, 11:30 AM - 1:00 PM

#### Tickets:

Members	\$25
Non-Members	\$35
Walk-Ins	\$40

[Register Now](#)

**Abstract:** Each year, companies use averaged well production (type wells) to support billion dollar expenditures to buy and develop oil and gas resources. These type wells often have unrepresentative rate-time profiles and recoveries over-stated by as much as 50%. These intolerable errors result from common, but incorrect, assumptions in constructing type well production profiles, and the selection and weighting of analog wells. Literature related to constructing type wells is sparse and incomplete. This lecture will fill that gap and lead participants to informed decisions for best practices in type well construction. Hind casting examples show that only small errors in recovery result when the type well construction combines historical and predicted production rates. This improvement results from using educated estimates (not

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intrinsic values) for months with no data to average, and from individual well forecast errors that offset one another. A Monte Carlo method incorporates risk and leads to better well selection and weighting factors, achieving more representative rate-time profiles. The recommended methodology incorporates aggregation and choosing different uncertain parameters. Parameter choice is important because it makes little sense to risk recovery (e.g., P90 for proved reserves) when the application demands a different parameter such as present value. Type well construction methods are common, but they have errors that are difficult to detect. Evaluators are likely using type wells for financial analysis, facility design, cash flow prediction, reserve estimation and debt financing without knowledge of the inaccuracies and options to improve accuracy.




**Biography:** Randy Freeborn is a subject matter expert in the field of empirical forecasting, type wells and related technology. Currently, he is Chief Research Engineer at Energy Navigator where he is responsible for identifying and inventing engineering technology for inclusion in the company's reserve management software. He has been a professional engineer for 44 years and is a member of SPEE and SPE. Freeborn has prepared numerous technical papers for presentation at conferences, workshops and industry meetings. He has given guest lectures at the University of Houston and Texas A&M, and has been called as an expert witness.

## HSSE STUDY GROUP

### Produced Water: Waste or Product?

*Jill Cooper, Anadarko Petroleum Corporation*

 September 8, 2016, 11:30 AM - 1:00 PM

 Halliburton, 1125 17th Street, 19th Floor Training Room



**Abstract:** The oil and natural gas industry has continuously demonstrated its ability to innovate to address challenges and opportunities. This includes turning "waste" into products. The most obvious example of this is when we demonstrated how natural gas could become a product in lieu of flaring. The next challenge is the "third phase" from the well - produced or formation water.

At this study group we will discuss the challenges and opportunities around keeping produced or formation water "at the surface" as a product instead of disposing it in an injection well as a waste. Join us to help problem solve this intriguing concept.

**Biography:** Jill Cooper is a Corporate HSE Manager of Reporting and Advocacy for Anadarko Petroleum Corporation and works on global health, safety, and environmental matters for the company. She received her MBA in International Business at Thunderbird

School of Global Management and continued on to receive her JD in Environmental Law at the University of Colorado Law School (1996). She has since then held several positions including the Senior Advisor to the Executive Director on environmental matters, Director of the Sustainability Division and Legal Administrator for the Air Pollution Control Division at the Colorado Department of Public Health & Environment. She also practiced environmental, natural resource and sustainability law as an Attorney with Faegre & Benson LLP. Ms. Cooper was the Group Lead in the divisional environmental program for Encana Oil & Gas Inc., which included air, water, waste, land, wildlife, and sustainability. She specializes in sustainability, environmental and regulatory legal, management as well as oil and natural gas.

## CSM Mock Interviews

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The CSM SPE chapter is conducting mock interviews to prepare students for the fall career fair. They are looking for industry professionals to conduct 40 minute interviews. These interviews will be held at the Halliburton offices in downtown Denver on Friday, September 9th. You can find more information and sign up for interview slots [here](#).


If you have any questions, contact [Connally Reid](#).

## YOUNG PROFESSIONALS

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### **Lunch & Learn: Fundamentals of Safety Leadership** *Dusty Mecham, XTO Energy*

 September 14, 2016, 11:30 AM - 1:00 PM

 Liberty Oilfield Services, 950 17th St., Suite 2000


SPE – YP kicks off the 2016 – 2017 Lunch & Learn series by welcoming Dusty Mecham, XTO Energy's Senior Safety Completion Coordinator for the Western Division. Dusty will lead a presentation and discussion on the values and benefits a strong safety culture brings to our industry, and real-life examples and experiences that keep safety at the forefront of our operations. Prior to joining XTO, Dusty has held positions as an Area Superintendent (Cotton Petroleum), Drilling Foreman (Giant Industries), and Senior Completion Supervisor (Cross Timbers Production Company). His multiple experiences, including rig supervision for more than three decades, inform his daily work with the Safety Leadership team at XTO Energy.


Interested in attending? Please RSVP to Anne Becker by Monday, September 12th at 5:00 PM. Lunch will be provided.



### **Happy Hour**

Join friends, colleagues, and new connections for a drink on us!

 September 14, 2016, 4:30 PM - 6:00 PM

 Rock Bottom Brewery, 16th St. Mall and Curtis

## September Sponsorship Shout-Out

Please join us in thanking John Sanford and TAM International for sponsoring this month's activities!

## RMAG AND SPE JOINT HAPPY HOUR

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### Cigar and Whiskey Night

RMAG and Denver SPE invite you to a Whisky and Cigar Happy Hour, Thursday September 29 from 4 to 6pm at the Celtic Tavern, 1805 Blake St. Denver, CO.

Come join the fun and enjoy an opportunity to network among your peers! Price of admission \$20 and includes light appetizers, 1 drink, and 1 cigar



## CONTINUING EDUCATION

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### Microseismicity: A Hydraulic Fracture Diagnostic and A Deep Injection Conundrum – An Overview

Dr. Kenneth D. Mahrer

Location: Brown Palace Hotel and Spa, 321 Seventeenth Street, Denver, CO 80202, (303) 297-3111

Registration Deadline: Friday, October 7, 2016

Course Dates: Tuesday-Wednesday, October 25-26, 2016

Course Details: [ContinuingEducation\\_Microseismicity.pdf](#)

### Horizontal Well Completions

Dr. Jennifer L. Miskimins, P.E., Senior Consulting Engineer, Barree & Associates

Location: Brown Palace Hotel and Spa, 321 Seventeenth Street, Denver, CO 80202, (303) 297-3111

Registration Deadline: Friday, January 6, 2017

Course Dates: Tuesday-Wednesday-Thursday, January 24-25, 2017

Course Details: [ContinuingEducation\\_HorizontalWellCompletions.pdf](#)



You can find a full list of 2016/2017 Continuing Education Courses here: [2016-2017\\_Denver\\_Section\\_SPE\\_Training\\_Courses.pdf](#)

For questions and further details, contact [Darren O'Brien](#).

## Energy4Me

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The Society of Petroleum Engineers (SPE) encourages its members to educate the public about energy and put a face on the industry. Energy is a critical issue worldwide, and SPE believes face-to-face contact is the ideal way to spread the word about energy conservation, the future of the oil and gas industry and its impact on the planet. SPE's Energy4me program is designed to make an impact with website resources, teacher development and speaker programs.

If you are interested in volunteering or would like more information, email [Ellen Scott](#).

### Society of Petroleum Engineers - Denver Section

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SPE members receive periodic emails on events and programs related to the section to which they belong. If you no longer wish to receive emails from this section, please opt-out. You may also choose to review your email preferences with SPE International.

