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## Society of Petroleum Engineers Denver Section

Dear ,

Have you signed up for the regional conference? They just confirmed Governor Hickenlooper to do a Keynote speech. See below for 6 other reasons it is going to be a great conference.

This month, instead of our normal general meetings at the Denver Athletic Club, our general meeting will be at the Colorado School of Mines. The CSM chapter has gathered together a panel to discuss environmental and social responsibility aspects of unconventional resource development here in Colorado. With representatives from the COGCC and Industry, it should be interesting.

We will be having a drilling study group meeting this month for the first time in a while. Please see below for more information.

Keep an eye out for information next month about SPE-YP's inaugural charity poker tournament! For now, save the date for the evening of Thursday May 15th.

Cheers,

Kelly Wilson

Newsletter Editor

PS. Are you interested in being more involved in SPE? We are always looking for help with study groups, committees, meeting planning and board positions. [Please email](#) for more information.

**March 5, 2014**

### General Meeting- Joint Session

#### **Panel Topic: Environmental and Social Responsibility Aspects of Unconventional Resource Development in Colorado: Past, Present, and Future**

##### **Round Table Panelists:**

- Doug Houk, Encana Corporation
- Mike Eberhard, Anadarko Petroleum Corporation
- Stuart Ellsworth, COGCC
- Jerry Somer, Tekton Energy

Date: March 26th, 2014, 5:45- Cash Bar, 6:30-8:30 pm Dinner and Panel

Place: Friedhoff Hall Green Center, Colorado School of Mines - 924 16th Street, Room B-20, Golden, CO 80401 Parking: Street parking; and after 5pm, parking in the CSM lots on campus

RSVP: [Online by March 17th](#) for \$30 or At the Door for \$35

This month's general meeting is being hosted by our colleagues at Colorado School of Mines. The student chapter has organized a very interesting looking group of panelists including 3 industry panelists and a panelist for the Colorado Oil and Gas Conservation Commission to discuss the environmental and social responsibility aspects surrounding Unconventional Resource Development in Colorado. Should be a lively discussion.

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**Thanks to this Month's  
Newsletter Sponsor:**

## 2014 Western North America and Rocky Mountain Joint Conference and Exhibition

 April 15-18, 2014 | Denver, Downtown

The Society of Petroleum Engineers announces its first-ever Joint SPE Technical Conference and Exhibit organized by two major North American Regions - Western North America and Rocky Mountain. Expand your knowledge and cross pollinate ideas between Unconventional and Conventional assets. Also, take advantage of the sponsorship opportunities to stand out among the many organizations competing for attention at the conference.

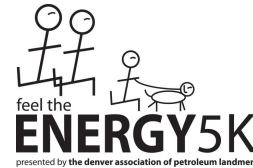
- Exhibition General
- Exhibitor Floor Plan
- Sponsorship Opportunities
- Accommodations
- Technical Program
- Short Courses
- Luncheons and Networking
- Panel and Poster Sessions

### Reasons to Attend the Conference

1. Keynote Speaker- Honorable Gov. Hickenlooper on Friday April 18th
2. Keynote Speaker- Respected Helge Holve Halderson, Statoil on Thursday, April 17th
3. Panel Session: Regulatory & Other Rules Facing the Industry on the Move; with the Oil & Gas Commission Chairs from Colorado, Wyoming, Alaska, California and Utah
4. Short Courses Offered by Industry Experts
5. 2 Day Exhibition Hall
6. Technical Sessions with 80+ papers
7. Finally, An Excellent Opportunity to Network and Experience the Great Mile High City



Honorable Governor Hickenlooper



**Bring your friends, family and dogs and join in this year's run/walk!**

 **Saturday, April 12, 2014 @ 9:30 AM**

**City Park, Denver, CO**

### Registration Fees

- \$30-Adults
- \$20-Seniors 60+/Youth Under 17
- \$90-Family Four Pack-Online Only
- Free-Kids Fun Run

[Sign Up Here>>](#)

### Follow Us:



[SPE Denver Website](#)

### SPE-YP / DGS 2014 SKI TRIP

March 28<sup>th</sup> at Arapahoe Basin

\$20 Includes: RT charter bus, Coffee, Breakfast, Lunch, Beverages Door Prizes

Weatherford will be providing BBQ on A-Basin's famed "beach"

Possibly free ski demos...

Sponsorship Opportunities Available

[SIGN UP HERE](#)

### SPORTING CLAY TOURNAMENT

 **Friday April 11, 2014**  
Register by Mar 11, 2014

Knowledge Will Soar Rocky Mountain High  
at This Year's SPE Conference in Denver.



Register/View more Information  
about the Conference >>

### Outreach Volunteer Opportunities

The mission of the Denver SPE Community Outreach Committee is to support all levels of our local education systems in developing their abilities in STEM-Science, Technology, Engineering, and Mathematics through scholarships and mentorships opportunities. We also want to enhance the image of the Oil and Gas Industry through disseminating knowledge and being an active member of the local community.

#### Current Opportunities

- SPE will be selecting a partner Denver Public School in mid-March for the 2014-2015 school year. We will be engaging in several programs with our selected partner school such as providing reading tutors, Energy 4 Me presentations, school supply drives, and various other events. If you would like to be part of that process contact [Megan Starr](#).
- [Sign up to be an SPE Ambassador](#) Lecturer. The Ambassador Lecturer Program (ALP) is designed for SPE Young Professionals to share their career development in the industry with students at secondary schools and universities. Contact [Kathleen Eccleston](#) with any questions.
- We need a coordinator for our new [Energy 4 Me program](#). This program will organize other volunteers provide outreach on energy conservation, the future of the oil and gas industry and its impact on the planet. Contact [Megan Starr](#) if you're interested.
- We need your CREATIVE ideas to help build public awareness about hydraulic fracturing and other issues that face our industry, contact [Tim Dombrowski](#) to help.

### SPE 34th Annual Racquetball Tournament Results

First, a special thanks to the sponsors of the tournament (see following page). Through their generosity, the tournament was able to raise approximately \$3,000 towards the Denver Section SPE Scholarship fund.

Colorado School of Mines is hosting its annual sporting clay tournament. Make a team and sign up!

[For Location and Details to Sign Up >>](#)

#### Welcome New SPE Members:

Andrew Warner  
Tracey Doeden

#### Welcome SPE Members Transferring to Denver:

Justin Alff  
Jun Su An  
Justin Boltz  
Randy Edelen  
Josh Falls  
Max Knop  
Kevin Lewis  
Charles Mallary  
William Marshall  
Robert Masitti  
Nick Michaelson  
Marc Miller  
Judith Neyer  
Thang Nghiem  
Jolanta Obrochta  
Dhaval Patel  
Scott Reyman  
Keith Smelker  
Samuel Styles  
Bill Wathier  
Kevin Wong

- Platinum**
  - Baker Hughes**
  - Bayswater Exploration and Production**
  - Halliburton**
  - Liberty Oilfield Services**
  - MHA Petroleum Consultants**
  - Noble Energy**
  - Weatherford**
  - Smith Bits, A Schlumberger Company**
- Silver**
  - Magna Energy Services**
  - Calfrac**
  - Accelerated Production Systems**
- Bronze**
  - Anchor Drilling Fluids**

And the Results of the Competition...

<b>Racquetball A/B Division</b>		<b>Racquetball C+ Division</b>	
Tom Riebel	1st Place	Tom Rogers	1st Place
Nick Michaelson	2nd Place	Brian Weaver	2nd Place
John Still	3rd Place	Tyler Johnson	3rd Place
<b>Racquetball C Division</b>		<b>Racquetball Novice Division</b>	
Dennis Gladwin	1st Place	Kirsten Swanson	1st Place
Dylan Rittenburg	2nd Place		
Dave Rebol	3rd Place		

**Drilling Study Group**

**Topic: Asset Development Drivers in the Bakken and Three Forks**

Speaker: Maraden Panjaitan, Senior Production & Stimulation Engineer, Schlumberger
Date: March 20th, 2014, 11:30-1:00p
Place: Halliburton Offices, 1125 17 <sup>th</sup> St, Suite 1900
RSVP:Email <a href="#">Nick Schnurr</a> by March 17th

**Abstract:**

Home to one of the largest North American deposits discovered in the last few decades, the Bakken, spanning 200,000 square miles along the borders of Saskatchewan, North Dakota and Montana, is

rivaling some of the largest proven reserves. As the use of long horizontal wells and multi-stage fracturing technology has significantly increased productivity and activity in the basin, the challenges associated with infill-completions, depletion and controlled fracture growth must be addressed to ensure efficient and effective practices, encouraging long-term planning without hindering investment.

In this paper, models are built to replicate well performance (fracturing and production-numerical & rate transient) and to understand the impact of key technologies (multi-stage/completion type and multi-laterals) across the basin to demonstrate why completion strategies must be modified based on reservoir quality and stress state. Confusion between the success of sliding sleeves/plug and perf and what drives the optimal number of stages is also addressed using fracture modeling and production modeling with emphasis on key parameters (fracture length, connectivity, number of fractures) influencing productivity. The recent focus on data acquisition and modeling in the Three Forks has presented a range of challenges and opportunities due to the laminations in this reservoir. Log up-scaling methods and simulator engines were crucial to modeling and thus evaluating propagation behavior. This paper also presents how the use of data gathering (log, routine and specialized core) and modeling has enabled us to understand how in-fill drilling can alter drainage patterns and influence production success.

#### Biography:

[Maraden Panjaitan](#) is a senior production & stimulation engineer based in Denver, US. Maraden has 14 years of experience with Schlumberger; he joined the company in 2000 as a field engineer working in Rock Springs Wyoming. Maraden had held positions of DESC and Sales Engineer for Pressure Pumping Services in Denver, USA and Calgary, Canada. He joined Petro Technical Services group in 2009 in Denver. His area of focus has been on completions and production optimization in Piceance, Green River and Williston (Bakken) basins. He received his Bachelors in Mining and Metallurgical Engineering from Institute of Technology Bandung in Bandung, Indonesia (1998). He is an active publishing member of SPE.

### Reservoir Engineering Study Group

#### Topic: Unconventional Reservoir EUR Calculation & Well Optimization using Reservoir Simulation

Speaker: James Erdle, Vice President of Computer Modeling Group, LTD.
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Date: March 27th, 2014, 11:30-1:00p
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Place: Halliburton Offices, 1125 17 <sup>th</sup> St, Suite 1900
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RSVP: Email <a href="#">Deb Ryan</a> by March 24th
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#### Abstract:

The use of reservoir simulation (i.e. numerical simulation) to history-match and optimize production from hydraulically fractured horizontal wells completed in “unconventional” (e.g. shale gas, shale liquids & other “tight oil”) reservoirs has evolved in terms of the physics that can be incorporated and the workflows that can be applied to make “physics-based” calculations of a range of plausible EURs (from one or more wells) and optimization of well configuration and density/spacing possible in reasonable time frames (e.g. hours or a few days). This talk presents the application

of a commercial reservoir simulator and productivity enhancement tool to determine a physics-based range of oil and gas EUR's and optimum well configurations/spacings for an Eagle Ford "oil window" well.

### Biography:



[Dr. Erdle is CMG's Vice President](#) for software sales and support for the USA and Latin American. He has 40 years of industry experience, primarily in reservoir and production engineering-related positions within the services and software segments of the E&P industry, since graduating from Penn State with BS and PhD degrees in Petroleum Engineering in '71 and '74. Early in his career Jim was involved with some of the industry's leading advances in well

testing design, monitoring and interpretation technology, including Closed Chamber and Surface Pressure Readout (SPRO) Drill Stem Testing, production enhancement via NODAL analysis, stimulation treatment design & monitoring techniques, and production surveillance software (The Production Analyst, which was the predecessor to OFM).

Jim joined CMG in May of 1997 and by October of that year had opened CMG's USA office in Houston. Since then he has been responsible for expanding CMG business in the USA, in the GCC countries of the Middle East (2003-2008), and since being promoted to Vice President in June of 2008, in South/Latin America. Jim has been directly involved in improvements to CMG's technology, including the workflows available within CMG's products used to build, run and analyze dynamic reservoir simulation models (BUILDER and RESULTS) and most recently CMG's new tool for aided history matching and optimization (CMOST).

Computer Modelling Group has been providing advanced reservoir flow simulation software since 1978 for modelling primary, secondary and tertiary recovery processes in conventional oil and gas reservoirs and in unconventional resources, such as heavy oil reservoirs, coal seams, oil and gas shales and natural gas hydrate formations. CMG's software is also used to model environment remediation processes (e.g. thermal desorption) and CO<sub>2</sub> and acid-gas sequestration in oil reservoirs, coal seams and saline aquifers.

### Young Professionals Lunch and Learn

#### Topic: The Science of Land – for Engineers

Speaker: Lane Douglas, CEO of Fidelity Land LLC
Date: March 12th, 2014, 11:30-1:00p
Place: Sanjel Office Downtown, 511 16 <sup>th</sup> Street, Suite 300, Denver
RSVP: Email <a href="mailto:yp-denver@spemail.org">yp-denver@spemail.org</a> by Noon, March 10th

#### Abstract:

Lane will lead an interactive seminar on understanding the role of landmen for the engineering professional. The class goals: gain an introduction to the 12 skill areas of land, from real property law to ethics; gain an introduction to the 12 core functions of land, from the scout doing an area check to the land promoter selling a deal. And in all of it, have a little fun.

Lane has presented to many groups and continually receives rave reviews – we look forward to having him present to the organization.

### Biography:

[William "Lane" Douglas III is the CEO/Founder of Fidelity Land](#), LLC which he started in January 2008. Fidelity Land is a full service support company that has employed numerous contract Landmen; served many clients and has given Lane a vehicle to achieve one of his major goals in life. That is, to leave a legacy of knowledge, by teaching and acting as mentor to countless Landmen. Lane was born in Lafayette, Louisiana after his parents moved there when his dad took a job as a District Landman. Lane attended the New Mexico Military Institute through High School and Junior College; returning to his roots at the University of Louisiana to earn his degree in Petroleum Land Management. His career spans more than 27 years covering 17 states, working for various major and independent oil & gas companies. He has also served his country for 22 years in the United States Army Reserve and has retired as a Major, having served in the first Desert Storm Operation (thank you for your service, Lane!). He has also obtained his real estate license for Colorado and has managed to use those skills to better serve his clients and to further his knowledge of oil & gas land work. Lane still considers being married 25 years, with four children and two grandkids, his greatest accomplishment.

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### Membership Report February 19th

During the months from January to February our section saw a net gain of 61 members. At the beginning of February, we had a total of 2629 full members, of whom 802 are designated as Young Professionals (30.5% of total).

As of the beginning of February, we had 281 student members. At the beginning of February 2013, our full member count was 2450 (increase of 7.3% YOY) and our student member count was 285 (decrease of 1.4% YOY).

## Society of Petroleum Engineers - Denver Section

### Americas

222 Palisades Creek Dr.  
Richardson, TX 75080-2040 USA

### Asia Pacific

Level 35, Gardens South Tower  
Mid Valley City, Lingkaran Syed Putra  
59200 Kuala Lumpur, Malaysia

### Europe

1st Floor, Threeways House  
40/44 Clipstone Street  
London W1W 5DW UK

### Middle East

Fortune Towers, 31st Floor  
Offices 3101/2, JLT Area  
P.O. Box 215959, Dubai, UAE

+1.972.952.9393 | E-mail |

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.

