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## Society of Petroleum Engineers Denver Section

Dear ,

In order to better serve you as a member, our SPE chapter is conducting a survey. The outputs of this survey will directly guide decision making on projects for our chapter, which methods we will use to communicate with you, and will focus development of new resources to the things you want. Please take the five minutes to fill out this survey.

One thing our chapter annually devotes resources to is scholarships and science fairs. The Denver SPE section again was a sponsor of the 2014 Denver Metropolitan Regional Science & Engineering Fair held at the Natural History Museum March 5-6th. This exciting and challenging event drew from the seven-county Denver metropolitan area; some of the best minds from grades 6 through 12. Winners are nominated to go to state competition held at Colorado State University, April 10-12.



SPE Denver's Don Smith presenting awards to the Junior Division 1st place winner, Carlos Sonoma, and the Senior Division 2nd place winner, Allison Weinberger.

The Denver SPE section also presented \$90,000 for the 2013-2014 scholarship funding to 101 students studying Petroleum Engineering bachelor programs at the Junior or Senior level. The students are enrolled at University North Dakota, Montana Tech., University of Wyoming, New Mexico Tech. and Colorado School of Mines.

This month SPE's Western North America/Rocky Mountain Joint Conference and Exhibition is taking place in Denver. We will not be holding a general meeting, but instead will encourage you to attend the conference. Learn more about this conference and how to sign up below.

Finally, Are you interested in being more involved in SPE? If you are interested in a section committee or board position for the 2014-2015 year please contact our section president, Erin McEvers.

Have a good month,

Kelly Wilson

Newsletter Editor

P.S Apologies to Accelerated Production Systems. Accelerated Production Systems was a silver level sponsor for SPE's annual racquetball tournament and they were inadvertently left off the sponsor list last month.

**April 1, 2014**

### 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.

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<p style="text-align: center;"><b>Reasons to Attend the Conference</b></p> <ol style="list-style-type: none"> <li>1. Keynote Speaker- Honorable Gov. Hickenlooper on Friday April 18th</li> <li>2. Keynote Speaker- Respected Helge Holve Halderson, Statoil on Thursday, April 17th</li> <li>3. Panel Session: Regulatory &amp; Other Rules Facing the Industry on the Move; with the Oil &amp; Gas Commission Chairs from Colorado, Wyoming, Alaska, California and Utah</li> <li>4. Short Courses Offered by Industry Experts</li> <li>5. 2 Day Exhibition Hall</li> <li>6. Technical Sessions with 80+ papers</li> <li>7. Finally, An Excellent Opportunity to Network and Experience the Great Mile High City</li> </ol>	 <p><b>Honorable Governor Hickenlooper</b></p>
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**Thanks to this Month's Newsletter Sponsor:**



**ENERGY5K**  
presented by the denver association of petroleum landmen

**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>>](#)



**Register/View more Information about the Conference >>**

**SPE Employee Referral**

SPE has for years maintained a volunteer employee referral program, which acts as a liaison between employers and employees. It is designed as a service to the SPE member, and allows for a free and confidential discussion regarding the local job market. Employers can request a matching of job qualifications to the resumes kept on file, and

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**Save the Date**

**Poker Tournament**

May 15th, 2014

Buy-in \$100

Maggianos, Downtown Denver

[Check Back Here for Registration Details](#)

the chairman will provide the requisite contact between parties. SPE utilizes members' resume only for purposes of matching with a potential future job description, and leaves it up to the SPE member to distribute their own resumes. Historically, we have fielded phone and e-mail contacts from members looking to move into the region, members looking for career advancements, and local employers wanting to cast a wider net in attracting job candidates. We do NOT compete with professional employment agencies, but provide a free sounding board for SPE members regarding their resume, job opportunity and career development.

If interested, you can contact Per Burchardt at 303-925-0696 ext 113 or via [e-mail](#).

## 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.

### Highlighted Opportunity

- 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.

### Other Opportunities

- [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 your CREATIVE ideas to help build public awareness about hydraulic fracturing and other issues that face our industry, contact [Tim Dombrowski](#) to help.

## Drilling Study Group

### Topic: Prestack Depth Migration for Unconventional Plays? A Niobrara Shale Case Study

Speaker: Morgan Brown, General Manager <a href="#">Wave Imaging Technology</a>
Date: April 22, 2014, 11:30-1:00p
Place: Halliburton Offices, 1125 17 <sup>th</sup> St, Suite 1900
RSVP: Email <a href="#">Nick Schnurr</a> by April 18th

### Abstract:

Traditionally, prestack depth migration (PSDM) was considered an exotic seismic processing technology, applicable only for imaging "complex" geology, like sub-salt imaging. On paper, engineers love PSDM, because the technique produces a seismic image *in depth*. Given the recent resurgence of onshore exploration, we ask: can PSDM make an impact on "easy" onshore plays? We present an unconventional oil shale (Niobrara) case study which convincingly illustrates three key reasons for (re)considering PSDM:

## Continuing Education

October 21-22

### [Coaching for Performance](#)

The class will provide a solid foundation for leaders to use in improving employee performance through coaching and development.

## Welcome New SPE Members:

Randy Andersen  
 William Andrews  
 Pyeboone Arunakul  
 Alejandro Azcona  
 David Baker  
 James Bell  
 Fenton Buchanan II  
 Chris Buscemi  
 Tyrell Butikofer  
 Stanley Campbell  
 Doug Chapman  
 Juliet Garcia  
 Robert Griffon  
 Kevin Lammers  
 Andrew MacFarlane  
 Theron Nelms  
 Troy Owens  
 Trisha Phillips  
 Paul Trost  
 Patrick Walter  
 Michael Weber  
 Christopher Wilson

- 1) Remove false time structures (caused by lateral variations in velocity) which could harm geosteering
- 2) Improve the positioning and focusing of small faults on the seismic image
- 3) Improve the accuracy of seismic attributes to aid in sweet spot detection and drilling optimization

### Biography:



[Morgan Brown is General Manager of Wave Imaging Technology](#), a specialty seismic processing firm leading the onshore depth imaging trend. Brown worked in Geophysical R&D positions for Hess and 3DGeo before joining Wave Imaging. He holds a B.A. in applied math from Rice University and a Ph.D. in geophysics from Stanford University. He has 15 years of experience in depth imaging.

### Completions/ Production Study Group

## Topic: Comparing Formation Evaluation Measurements Made Through Casing with Openhole Logging Measurements

Speaker: James Hemingway, Petrophysics Advisor, <a href="#">Schlumberger</a>
Date: April 10th, 2014, 11:30-1:00p
Place: Halliburton Offices, Training Room on 19th Floor
RSVP: Email <a href="#">Wendell Salas</a> by April 7th

### Abstract:

Logging measurements in cased wellbores are almost always more difficult to make and tend to be more sensitive to the logging environment than the equivalent measurements in open hole. While not all openhole measurements are possible in cased wellbores it is possible to make many of our more basic measurements in either open or cased wellbores.

There are numerous reasons for making traditional openhole measurements after casing has been set. Some of these reasons include difficult logging conditions, highly deviated wells where deployment is a problem, or simply avoiding expensive rig time. The increasing numbers of horizontal wells, especially in unconventional reservoirs, has led to a trend where the majority of new horizontal wells are not logged. Logging While Drilling or deployment of wireline tools in long horizontal openhole sections are often not an option due to cost or risk factors associated with deployment. Logging after the well has been cased can offer a greatly reduced risk as well as reduced cost.

The introduction of pulsed neutron capture measurements nearly 50 years ago provided some of the first opportunities to do formation evaluation in cased wellbores [Raymer and Morris, SPWLA Paper G 1964]. Over the years, new cased hole measurements have been introduced to make measurements previously only observed in openhole.

It is not my intention to suggest that logging in cased wellbores provides better data than what can be achieved in openhole. However in many cases it is possible to acquire the necessary data in cased holes to allow for a better completion design. Nowhere is this more useful than in the complex wellbores of today where we often have no formation evaluation data on which to base our completion

**Biography:**



James Hemingway started with Schlumberger in 1980 and has held various petrophysics and engineering positions with Schlumberger since 1982. He has been heavily involved in reservoir monitoring of Enhanced Oil Recovery operations using techniques designed for use in cased wellbores. James holds degrees in chemistry and chemical engineering.

In 1997 he joined the Formation Evaluation department at the Schlumberger Sugar Land Product Center working on the RSTPro\* (carbon-oxygen) tool and "Three-Phase Holdup" interpretation techniques. He moved to Paris in 2001 as a new technology advisor and has been based in Houston since 2010 as a Petrophysics Advisor focusing on unconventional resources.

James was a Distinguished Lecturer for the Society of Petrophysicists and Well Log Analysts in 2000-2001 and 2011-2012 on cased hole logging technologies.

**EHS Study Group**

**Topic: Colorado Regulation 7**

Speaker: Tom Gibbons, Principal Scientist, Whiting Petroleum
Date: April 8th, 2014, 11:30-1:00p
Place: 7th floor Training Room, 1675 Broadway, suite 700
RSVP: Email <a href="#">Meagan Miller</a> by April 4th

In February 2014, Colorado's Air Quality Control Commission finalized a new regulation covering emissions of hydrocarbons from oil and gas sources. Mr. Tom Gibbons will be presenting information from the finalized Colorado Regulation 7 including impacts to the following:

- Tank Battery Emission Controls
- Tank Battery Emission Control Threshold
- Venting Prohibition for Controlled Tank Batteries
- Tank Battery Monitoring
- Fugitive Emissions Leak Inspection and Repair (LDAR)
- Well Operation and Maintenance
- Well Maintenance and Liquids Unloading
- Pneumatic Controllers
- Dehydrator Emission Controls

**Biography:**

Tom Gibbons is a Principal Scientist with Whiting Petroleum Corporation. He has worked with Whiting for 4 years, primarily focusing on air quality for the Rocky Mountain region. He is responsible for air permitting and compliance for much of Whiting's 12-state operations, including Colorado, Arkansas, Louisiana, Mississippi, Montana, Utah, and Wyoming.

Tom has a bachelor's degree in chemistry from the University of Illinois, and a master's degree in meteorology from Penn State. He has 26 years of broad experience in air quality as an environmental consultant for a wide range of industries, and specifically within the upstream oil and gas industry.

**Young Professionals Lunch and Learn**

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

Speaker: Darren Kirkwood, Senior Reservoir Engineer, [WPX Energy](#)

Date: April 9th, 2014, 11:30-1:00p

Place: Sanjel Office Downtown, 511 16<sup>th</sup> Street, Suite 300, Denver

RSVP: Email [yp-denver@spemail.org](mailto:yp-denver@spemail.org) by April 7th

### Abstract:

This presentation aims to encourage and excite the SPE Young Professionals to pursue future volunteer opportunities, and at the same time show the basics of water well drilling, and how they compare to drilling oil and gas wells. Specifically Darren will speak on his experience volunteering abroad and utilizing his drilling engineering expertise to drill water wells for impoverished communities.

## SPE Continuing Education

### Short Courses Prior to Regional Meeting

Apr 15-16, 2014 (2 Day Courses)

#### Horizontal Well Completions

#### Unconventional Reservoir Production (Rate-Transient Analysis)

#### Production Forecasts and Reserves Estimates in Unconventional Resources

April 16 (1 Day Courses)

#### DFIT: The Unconventional Well Test: Theory, Design and Interpretation

#### Waterflooding Concepts, Design Prediction and Optimization

## Membership Report March 19th

During the months from February to March our section saw a net gain of 23 members. At the beginning of March, we had a total of 2652 full members, of whom 815 are designated as Young Professionals (30.7% of total). As of the beginning of March, we had 287 student members. At the beginning of March 2013, our full member count was 2470 (increase of 7.4% YOY) and our student member count was 294 (decrease of 2.4% 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

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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.

