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We had a great turnout for our January General Meeting. So great, in fact, we almost exceeded the fire safety allotment for the room. Be aware in the future we will be capping our registration so we don't have that problem again, so sign up on time! If you wanted the slides from the meeting you can [download them here](#).

At the meeting we had a presentation of our local scholarships. Our section gives scholarships to students at multiple regional universities with petroleum engineering programs including Montana Tech, University of Wyoming, New Mexico Tech, Colorado School of Mines and University of North Dakota. This is a major event for us, as a large portion of the money we raise each year with our various fundraisers goes towards funding these scholarships.

There are a lot of activities coming up this month. We have a reservoir engineering study group, our YP group has multiple events including a ski weekend and Nuggets game, and our annual winter racquetball tournament is later this month. Also, there is a SPE Americas [HSSE Conference](#) in Broomfield in March. And we are looking for more volunteers to help with [Energy4Me](#) presentations at local elementary schools. We hosted 4 last year and are looking to improve on that number this year! Email our [Community Outreach Chair](#).

Special thanks to those who volunteered to help the CSM students do some mock interviews last Friday. The volunteer needs were met in 30 minutes from the email going out. This was our first time helping the CSM chapter out in this way, so really thanks. The SPE-CSM chapter is also looking for petroleum engineers employed in non-traditional jobs including government employees, small business owners, lawyers, etc, to form a panel to discuss their careers at CSM. The date is TBD, but if you are interested please email [Angela Dang](#).

Cheers

Kelly Wilson

Newsletter Editor



SPE Award Chairs, Don Smith and Linda Battalora, along with Section Chairperson Erin McEvers with the Scholarship awardees from Colorado School of Mines.

Regional Awards

TIME TO NOMINATE YOUR DESERVING COLLEAGUES

SPE Awards recognize members for their technical contributions, professional excellence, career achievement, service to colleagues, industry leadership, and public service. There are numerous awards for which Denver SPE Section Members are eligible, [Click here for more details](#). Or send our [Awards Chair, Tom Cryan](#), an e-mail with names, etc and he will get the process started for you.

February 3, 2015

GENERAL MEETING

SPE Distinguished Lecture: Hydraulic Fracture Complexity in Shale Gas and Tight Oil Plays: Insights from Geology, Modeling and Physical Experiments

Dr. Jon Olson, University of Texas at Austin

Feb 18, 2015 Denver Athletic Club



The shale gas revolution, ushered in through the development of the Barnett Shale in the Fort Worth Basin, demonstrated the potential of multi-frac horizontal wells. A close companion with hydraulic fracture placement technology was fracture diagnostic technology, and this illustrated that hydraulic fractures were not as simple as we once thought. The ideas around hydraulic fracture complexity had been brewing for a long time, but really exploded with widespread application of micro-seismic

monitoring. Yet, with all the incredible insight gained from micro-seismic mapping, there is still a significant gap in our level of observation. In this talk, I try to populate the observational gap by appealing to natural fracture examples as analogs for what hydraulic fracture complexity might look like, and then create possible realizations of complex fracture geometries using numerical fracture propagation modeling and scaled laboratory experiments. Evidence of stress shadow effects is illustrated for natural fractures and the consequent effect in hydraulic fractures is demonstrated through modeling. Cemented natural fractures are proposed as primary pre-existing flaws with which hydraulic fractures might interact, and the factors influencing this interaction are illustrated. Scaled laboratory experiments simulating hydraulic fracturing in naturally fractured reservoirs illustrate the range of fracture interaction geometries that might occur in the subsurface. Lessons learned from this integrated approach to fracture complexity characterization can help guide well planning, geologic data collection and hydraulic fracture optimization efforts.

[Dr. Jon E. Olson](#) is a professor and department chairman in Petroleum and Geosystems Engineering at The University of Texas at Austin, and also serves as sole proprietor of JEO Associates LLC, a petroleum consulting company. He holds BS degree in civil engineering and earth sciences from the University of Notre Dame, and a PhD degree in geomechanics from Stanford University. Prior to his arrival at The University of Texas in 1995, he worked for 6 years in Mobil Oil's research organization in Dallas, focusing on petroleum rock mechanics. He has published extensively on the topics of geomechanics and structural geology.

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Thanks to this Month's Newsletter Sponsor:



13th Annual Gas Well Deliquification Workshop

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Reservoir Engineering Study Group

Characterization of Wettability using NMR and Dielectric Logging, and Pore-scale Imaging Techniques

Margaret Lessenger, Senior Staff Petrophysicist Newfield Exploration

 Feb 26, 2015 11:30-1p  [Halliburton Frac Room](#)

Margaret Lessenger is a petrophysicist for Newfield Exploration Company in Denver. She has over 30 years of experience as a geophysicist, geologist and petrophysicist working in various basins in the Rockies, North Sea and Gulf of Mexico. She has worked for the Superior Oil Company, ARCO Oil and Gas, Platte River Associates, the Colorado School of Mines Department of Geology, and Williams Exploration prior to joining Newfield. Lessenger holds a BS in Geophysical Engineering, MS in Geophysics, and PhD in Geology from the Colorado School of Mines. She is a member of SPWLA, AAPG, and SPE.



Young Professionals

Lunch and Learn

Brandon Davidson, Account Manager - Surface Pumping Systems at GE Oil&Gas

 Feb 11, 2015 11:30-1pm  [Sanjel Office Suite 300](#)

Speaker and Presentation Info: Brandon Davidson, Account Manager – Surface Pumping Systems at GE Oil & Gas, is a Wyoming native, and attended the University of Northern Colorado graduating in 2011. He has been with GE Oil & Gas for three years, first as an application engineer, and within the past 8 months has transitioned into the account manager role for the Denver area. Brandon will focus his discussion on oilfield water disposal and how the process works, in addition to the CO2 enhanced oil recovery / injection process. This will include an overview of pumping technology and how / why water and CO2 are injected into the shale play. Brandon will also provide a brief tutorial on surface pumping systems / multi-stage centrifugal pumps, and discuss where these systems and approaches best work in the industry, and what we might see in the future. With both a technical and sales perspective, Brandon looks forward to sharing what has worked for customers in different areas, and how this technology makes our industry stronger.

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35th Annual SPE Racquetball/Handball Tournament

 February 20, 2015 12:30-

Done  [Denver Athletic Club](#)

Great Networking Opportunity. Trophies and door prizes presented at awards banquet.

[Register Now](#)

Sponsorships Available

YP Events

NUGGETS GAME

We look forward to hosting another night out at the Nuggets game, thanks to a generous invitation by Rockpile Energy Services to join them in their suite February 23, 2015. If you're interested in attending, please [email](#) for more information and to sign-up.

SKI TRIP

The inaugural Winter Park Spring Fling will take place Feb 27th- March 1st @ Winter Park resort. We are looking forward to a great weekend on the hill, and hoping for fresh snow! For more information, please visit [our website](#).

Please RSVP by February 9, 2015 at 5:00 PM to ensure we order enough lunch. Please email with the # people attending. Look forward to seeing you there!



[Continuing Education](#)

February 2015

Performance Analysis in Resource Plays Feb 24-25

Methods to assess and compare the performance of resource play multi-stage vertical and horizontal oil and gas wells will be the focus of this course.

March 2015

Austere Medicine 101 Mar 17-18

2-day primer on medical risk in low-resource settings, as well as an overview of common illnesses and how these differ from true medical emergencies.

Society of Petroleum Engineers - Denver Section

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