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Society of Petroleum Engineers Denver Section

Dear ,

This month our general meeting is hosting an SPE International Distinguished Lecturer, Dr. Gary Couples. Other events this month, SPE YP and DGS together are hosting an inaugural poker tournament at Maggiano's May 15th. In June, DGS and SPE YP are also organizing a networking luncheon and group attendance to a Rockies-Braves baseball game. The Outreach committee is hosting a meeting at Katie Mullens, May 14th, to brainstorm future public outreach activities. Later this summer the SPE annual Golf Tournament July 31st to August 1st. See below for more information about these events as well as our Completions/Production Engineering, EHS and YP study groups.

This will be the final newsletter as we take off for the summer months. By no means is SPE Denver shutting down for the summer. Expect a newsletter back in August to prepare for meetings and study groups to start up again in September. Our leadership committee will also be working this summer to get things ready for next year. If you have any interest in joining us, we have need and positions for volunteers at various skill levels and time commitments. Please contact [Erin McEvers](#) for more information.

This fall, our short courses are trying a new type of course by offering management type training course. The first course is titled "Coaching for Performance" and is for those coaching, as well as those being coached. Keep an eye out for more course availability in August.

Have a great summer.

Kelly Wilson

Newsletter Editor



Special thanks to all the hard work these folks put into organizing this years Western North America and Rocky Mountain Regional SPE Conference.

From the left: Andrei Popa, Tom Walsh, Mike Eberhard, Ted Frankiewicz, Megan Starr, Eric Lyche, Steve Cheung, Helge Hove Haldorsen, Kumar Ramurthy, Erin McEvers and Julianna Sipeki.

May 5, 2014

General Meeting

Topic: Geomechanics and Fractured Reservoirs: Comforting, Confusing, or Scary?

Speaker: [Dr. Gary D. Couples, Professor Heriot-Watt University](#)

Time: May 21, 2014 11:30 to 1:00pm

Location: [Denver Athletic Club](#)

RSVP: Click [HERE](#) by May 19th

Abstract:

Fractured reservoirs are known to exhibit changes in their characteristics during the production life cycle. Attempts to explain this behaviour using simple rules are usually not successful, and ultimately they are doomed, because the rules are based on assumptions that are physically impossible. Moving to the next level requires a change of mindset that involves abandoning the notion that geomechanical processes are governed by a constant state of stress. Using simple models and realistic conditions, and considering fractured rock masses and their contained fluids, we can understand how the coupled systems interact, leading to realistic upscaled responses. Many real-world fractured reservoirs may have large parts where the fracture distribution and flow conditions never provoke any major surprises, so this is a comforting result and we can make sensible predictions. Other parts of those reservoirs, and larger portions in some



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cases, can exhibit confusing responses that can only be explained by considering the geomechanics/fluid interactions. Some parts of some reservoirs seem determined to scare us by their seemingly-unreasonable behaviours. By gaining an understanding of the process interactions that occur in fractured reservoirs, we can protect ourselves from the fear of the unknown - and we may be able to use this knowledge to be more effective in planning our reservoir management tasks.

Biography:

Gary Couples is Professor of Geomechanics at Heriot-Watt's Institute of Petroleum Engineering where he works at the engineering-geology interface. He holds a MA from Rice University and a PhD from Texas A&M. He was employed at Cities Service (Tulsa) and Amoco (Denver), and then ran a consultancy, before joining the academic world in 1989, first at Glasgow University in Scotland, before moving to Heriot-Watt (Edinburgh) in 1998. He teaches on four Master's programmes at Heriot-Watt (lecturing to both engineers and geoscientists), and also on a geomechanical Master programme at the Universite of Grenoble in France, along with delivering industrial short courses around the world. His geomechanical research activities range from experimental work (and apparatus development) through to numerical simulation at many scales. His approach links geomechanical effects to their consequences: predicting flow and other properties. Textural analysis and digital rocks play a key role in this activity. He has been an invited keynote speaker at many conferences, and he enjoys talking about challenging topics.

Congratulations SPE Rocky Mountain Region Award Winners

- Justin Knappe** Regional Young Member Outstanding Service Award
- Bryce Ballard** Regional Young Member Outstanding Service Award
- Leslie O'connor** Regional Service Award
- James Adkins** Regional Service Award
- John Seidle** Regional Reservoir Description and Dynamics Award
- Linda Battalora** Regional Health, Safety, Security, Environment, and Social Responsibility Award
- David Reichhardt** Regional Distinguished Achievement Award for Petroleum Engineering Faculty
- Danny Green** Regional Completions Optimization and Technology Award
- Noble** Corporate Winner
- Anadarko** Corporate Winner

2014 SPE Golf Tournament

The Denver Section of the Society of Petroleum Engineers is pleased to announce our annual golf tournament on Thursday July 31st and Friday August 1st at [The Ridge at Castle Pines North](#). The proceeds from the tournament benefit the SPE Scholarship Fund. Last year's tournament resulted in a donation of \$55,000!

- 60 TEAMS PER DAY, **PRIORITY TEE TIME GIVEN TO SPONSORS**
- ENTRY FEE INCLUDES GREEN FEE, CART, RANGE BALLS, PRIZES &
- RAFFLE AFTER EACH ROUND (raffle drawing must be present to win), LUNCH & DINNER



Thanks to this Month's Newsletter Sponsor:



Bakken Artificial Lift & Production Optimization 2014

July 16-17, 2014

Denver, Colorado

The only dedicated congress for production professionals in the Bakken, focusing on artificial lift chemical treatments and production optimization.

This year's congress will feature 20+ new case studies on production optimization from E&Ps in the Bakken along with a completely revamped agenda:

- Increased Focus On Rod Pumps & Gas Lift
- Expanded Focus On Chemical Treatments
- New Focus On Gas Interference, Sand Control, Choke Management & Wellbore Deviation
- Gas Flaring, Water Disposal & Electricity Infrastructure

Speaker companies include: Liberty Resources, SM Energy, WPX, Triangle Petroleum, Continental Resources & more.

If you have any questions please email [Kimberley Graham](#).

Follow Us:



If you wish to further your marketing opportunities by contributing items to the tournament ditty bags, please contact our bag coordinator, [Joe Sanders](#).

SPE YP Ski Trip

The Denver YP SPE and Denver Geologic Society held their annual Ski Trip at Arapahoe Basin March 28th. It was a great success!. Special thanks to all the sponsors:

Downing Wellhead Equipment, Inc- Photo Sponsor

Microseismic Inc- Tent Sponsor

Thomas Tools / PFS- Breakfast Sponsors

GeoKinetics- Drink Sponsor

TGS- Bus Sponsor

Weatherford- Lunch Sponsor

CGG

Dawson Geophysical

GeoTrace

Great Western Oil & Gas

Resolve GeoSciences

WPX

SPE CSM Clay Shoot

Colorado School of Mines SPE Annual Sporting Clays Tournament at Kiowa Creek Sporting Club had a great turnout this year! With teams representing 15 industry companies, and 66 participants we enjoyed a day of beautiful weather and shooting. This event is one of two annual fundraising efforts for the CSM SPE club. We would like to congratulate CSM Petroleum Engineering Senior, Brian Stanley, the tournament's TOP SHOT! We would also like to thank our tournament's sponsors, Weatherford and Newfield Exploration. We are incredibly grateful for the support we have received and are looking forward to our upcoming Golf Tournament Fundraiser on Friday, October 3 2014.



Top clay shoot teams and our top shooter, CSM Petroleum Engineering Senior, Brian Stanley.

Top Row (left to right): Tucker Gordon, Donnie Witt, Harrison Godwin, Alex Jones, Tyler Hendrickson, Chris Williams, Chuck McCormick



Facebook

[SPE Denver Website](#)

Continuing Education

November 11-12, 2014

[Coaching for Performance](#)

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

Poker Tournament

Join us on the evening of May 15th at Maggiano's downtown Denver for the first annual SPE/DGS Charity Poker Tournament

Buy-in \$100

[Registration Details](#)

SPE/DGS BBQ Luncheon & Rockies Game Day

June 12th, 2014

11:00am to 1:00pm at LoDo's Bar and Grill Luncheon \$15 for BBQ lunch and drink ticket

1:10 Colorado Rockies vs. Atlanta Braves \$29

[Registration Details](#)

Welcome New SPE Members:

Lindsey Artman
Donatus Bachie
David Benson
Melissa Bohnet
Jeremy Bouher
Jessica Fry
Jack Halker
Amber Ivy
Craig Kaiser
Sean McClaren
Mehrnoosh Bidhendi
Thomas Morgan
Spencer Nelson
Ted Ranolph
Nathan Schmitz
Frederick Schwarz
Frederick Woodward

Bottom Row (left to right): Andrew DiPaolo, Brian Stanley, Noel Nocas

Landan Zimmerman

Outreach Volunteer Opportunities

Community Outreach Committee Brainstorming

Date: Wednesday, May 14 th , 2014
Time: 4:30pm-6:00pm
Place: Katie Mullen's
RSVP: Email Tim Dombrowski

Please join the SPE Community Outreach Committee for an after work brainstorming event at Katie Mullen's Irish Restaurant & Bar on May 14th. The goal is to meet in an informal setting, and bring ideas of events where we can volunteer in the community. We are looking to get volunteers for non-political activities in the metro Denver area, such as Habitat for Humanity, homeless shelters, etc. Please let me know if you can make it.

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. Learn more about our opportunities [HERE](#).

Completions/ Production Study Group

Topic: High Performance Ceramics in the Bakken

Speaker: Dr. Jim Crafton, President Performance Services
Date: May, 2014, 11:30-1:00p
Place: Halliburton Offices, Training Room on 19th Floor
RSVP: Email Wendell Salas by May 12th

Abstract:

An investigation of the performance of a group of North Dakota Bakken wells was conducted for the purpose of assessing the relative benefit of premium ceramic proppants compared to 20/40 white sand and other ceramic proppants. The observed production histories of the wells, normalized for reservoir quality, severity of pressure drawdown and treatment type and size were used as the basis for the comparison. The primary performance metrics employed were: apparent or effective fracture half-length normalized for the amount of placed proppant, sustainability of the reservoir/wellbore connectivity, an initial normalized productivity metric and average gross incremental value at the end of the normalized observed production histories. The two premium proppants had similar benefit, while the third ceramic proppant did not compare well, even with 20/40 white sand.

Biography:

Dr. Jim Crafton graduated from Missouri School of Mines in Mining Engineering, Petroleum Option, received his Masters' Degree in Petroleum Engineering from the University of Oklahoma, and Ph.D. from the University of Tulsa. He was awarded the Honorary Professional Degree from the University of Missouri, Rolla for his contributions to petroleum production engineering. He has received the Matson Award for technology development in water drive reservoir management. Most recently he has been recognized as a Society of Petroleum Engineers Distinguished Member. He has also received the SPE Production and Completions Engineering Award for his work in hydraulic fracturing technology. In another arena, he was granted the unusual privilege of naming rights for the discovery of a previously unknown geologic formation. He has been Chair

of the SPE Distinguished Lecture Program, by SPE Board appointment, for two years. He holds several US and international patents, including letters of commendation from the US Patent Office for those patents. Dr. Crafton formed Performance Sciences in 1991, a consulting business focusing on analysis of production data to assess well operating problems. Prior to that he received the Outstanding Faculty Award at the Colorado School of Mines, where he taught for over ten years.

EHS Study Group

Topic: Emerging NORM/TENORM Concerns for the Oil & Gas Industry

Speaker: Johnny Mitchell, National Director for Oil & Gas Programs, TestAmerica Laboratories
Date: May 15, 2014, 11:30 – 1:00 MST
Place: Lodo's Bar and Grill
RSVP: No day-of Registration. Register here One week prior or until capacity is met (100 people)

Please join RMAEP and the Society of Petroleum Engineers (SPE) for a joint monthly meeting covering the emerging topic of Naturally Occurring Radioactive Materials (NORM) and Technologically Enhanced Naturally Occurring Radioactive materials (TENORM).

Johnny Mitchell, National Director for Oil & Gas Programs at TestAmerica Laboratories, will provide a presentation on NORM/TENORM that will provide a basis of understanding of NORM and TENORM as it pertains specifically to the oil and gas industry and outline the analytical procedures currently recommended for evaluating matrices. As regulations governing the management and disposal of NORM-containing wastes evolve, the need to strike a balance between protecting human health and safety and minimizing the economic burden to oil and gas producers remains critical.

Young Professionals Lunch and Learn

Topic: *Probabilistic Type Curve Creation and Field Development – Predicting Economic Success of a Well*

Speaker: Damien R. Hutchins, VP Sales & Marketing for Damien Hutchins
Date: Wednesday, May 14, 2014 11:30-1:00p
Place: Sanjel Office Downtown
RSVP: Email yp-denver@spemail.org by May 12th

Workflows Covered:

- Stochastic historical production aggregation
- Type curve creation, using aggregate history and Monte Carlo simulation-
- Duong forecast and analysis
- Automated field development
- Economic reporting

Features highlighted:

- Stochastic Well aggregation & Type well creation -Duong method - Automated well scheduler

Biography:

Damien R. Hutchins, Vice President Sales & Marketing Damien Hutchins was appointed Vice President of Sales & Marketing early in 2013 after serving as Director of Client Operations for OGRE Systems. He is

responsible for Domestic & International Sales as well as ensuring and enhancing client satisfaction throughout the entire client experience. Highly focused on new communication and technology trends Mr. Hutchins brings focus to internal and external workflow processes creating intuitive and seamless systems for OGRE customers.

Previously Damien held a leadership role in a highly successful startup online technology company. There he was responsible for sales as well as maintaining the organization's internal systems which tracked and correlated thousands of transactions daily. The renewal of these products was highly dependent upon successful web delivery and customer experience which he also had a strong hand in. The company was later acquired by private investors. Damien remains a sought after adviser for System Integration, User Interface, Process Workflow and new business development."

Membership Report April 30th, 2014

During the months from March to April our section saw a net gain of 71 members. At the beginning of April, we had a total of 2723 full members, of whom 859 are designated as Young Professionals (31.5% of total). As of the beginning of April, we had 302 student members. At the beginning of April 2013, our full member count was 2493 (increase of 9.1% YOY) and our student member count was 302 (increase of 0.0% YOY).

Society of Petroleum Engineers - Denver Section

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Middle East

Fortune Towers, 31st Floor
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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.

