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March 1, 2021

GENERAL MEETING

Hydrogen and Energy 101: Role of CCUS

Talib Syed, P.E., Chair – HSES/Facilities and as SPE Member-at-Large CCUS Technical Section, SPE Denver Section.

Zoom Meeting: Click “Register Now” to receive the Zoom link.

Wednesday, March 17th, 2021, 11:50 PM – 1:00 PM

[Register Now](#)

Abstract:

The hydrogen economy and the role of CCUS (carbon capture, utilization, and storage) is big news today. Many governments, corporations (including non-profits), academia, and the general public support efforts to address global warming and climate concerns, and these have led to a significant projected increase in hydrogen use and a bigger role for CCUS globally in the future energy mix as we transition to a low carbon economy by 2050. A predicted 2.40 C increase in the average global surface temperature by 2100 (greatly exceeding the Paris Climate Accord targets) is also a cause of great concern, in order to mitigate global weather-related catastrophic events.

Fossil fuels (mostly natural gas) will remain the primary source of hydrogen by 2050 and the oil and gas industry with its unique skills, resources, and experience can play a major role in this energy mix transition. Renewable energy sources from wind, solar, etc. are also expected to play a bigger role in efforts to decarbonize other industry sectors.

This presentation will cover the production and uses of hydrogen in various industry sectors, its health and safety risks, a brief look at the future H2 economy, a listing of the CCUS projects that are currently active or planned globally, and the challenges in massively scaling up the H2 economy.

Biography:

Talib Syed, P.E. holds a B-Tech (Chemical Engineering – Univ. of Madras, India) and an M.S. in Petroleum Engineering (Univ. of Oklahoma) and is



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a Registered Petroleum Engineer in CO and WY. Talib started his oilfield career with ARAMCO – Saudi Arabia and has the U.S. and international experience – both onshore and offshore. Talib is an SPE Distinguished Lecturer on Life Cycle Well Integrity (2020 – 2021) and currently serves as SPE Denver Section Chair – HSES/Facilities and as SPE Member-at-Large CCUS Technical Section. Talib is a member of SPE, the American Association of Drilling

Engineers (AADE), the Interstate Oil and Gas Compact Commission (IOGCC), and the Ground Water Protection Council (GWPC).

DATA ANALYTICS STUDY GROUP

Accelerating Decision Making using Self Directed Analytics and Reporting

Sepide Zakeri, Senior Analytics Engineer, Seeq Corporation. Don Morrison, Senior Real-time Data Engineer, Devon Energy & Devon Koetter-Manson, Senior Completion Engineer, Devon Energy.

📍 Zoom Meeting: Click “Register Now” to receive the Zoom link.

📅 Tuesday, March 30th, 2021, 11:50 PM – 1:00 PM

[Register Now](#)

Abstract:

Intro to SEEQ:

Unlocking the value and insight that the time-series process data is difficult. Experts - engineers, data analysts, operators - generally have strong instincts when it comes to identifying and fixing “less than optimal” performing assets. However, the time and effort required to get there are prohibitively excessive and cumbersome. This probably is the reason why less than 1% of the data is actually analyzed to give any meaningful insight. Moreover, analytics alone are not sufficient; what is necessary is the effective integration of the analytical results into the workflows to drive improved business outcomes.

Given this reality, an analytical tool that can be fully integrated with process historians, maintenance databases, etc. could streamline the experts’ efforts empowering them in getting to their “a-ha” moment with regards to their troubleshooting and optimizing efforts swiftly and correlate them with business values.

Seeq is an advanced analytical application that can be fully integrated with various historians and databases. It delivers an amalgamated approach to analytics by seamlessly combining first principles, statistics, and machine learning. Seeq’s approach enables self-service analytics for engineers and scientists, collaboration, knowledge capture and/or transfers for teams, and publishing and near real-time views for managers and operators thereby providing its users a rapid path to insights leading to better business decisions.

This presentation will present use cases where Seeq empowered

their users to collaborate on tough technical problems and tie them to business value.

Biography:



Sepide Zakeri is a Senior Analytics Engineer at Seeq Corporation. She graduated from the University of Tulsa with a Ph.D. degree in Petroleum Engineering. With experience in a wide variety of industries including upstream and downstream sectors of oil & gas, instrumentation, and automation control Engineering, Sepide joined Seeq in 2018 as an analytics Engineer.

Currently, she is focused on advanced analytics solutions and machine learning to solve engineering challenges.



Don Morrison is a senior real-time data engineer at Devon Energy in Oklahoma City, OK. In his role, Don and his teammates integrate data from field operations into numerous business systems that enable operational intelligence across five operating areas. Don came to Devon Energy in 2014 and has 17 years of experience in engineering, software architecture, and automation system design.

Don holds a Master of Science in Systems Engineering from the University of Southern California and a Bachelor of Science in Electrical Engineering from Oklahoma State University.



Devon Koetter-Manson is a senior completion engineer at Devon Energy based out of Oklahoma City. He has held roles in production, drilling, reservoir, and completion engineering during his 11 years at Devon Energy. Currently, Devon is focused on completion engineering, working with the team to optimize large-scale processes and provide more systematic problem-solving approaches.

Devon graduated from the University of Oklahoma with a Bachelor of Science in Petroleum Engineering.

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FRIENDLY REMINDER

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Did you renew your membership before the end of 2020? Sign in at spe.org to check. Did you know SPE offers a membership fee waiver for [unemployed or furloughed](#) renewing members? Submit a written request to service@spe.org.

SPE—DENVER CHAPTER VOLUNTEERING OPPORTUNITY!



Would you like to be part of a dynamic group of volunteers and help disseminate technical knowledge to our local SPE community? Tap the picture above to sign up! or contact [Jessica Iriarte](#) directly.

JOINT SESSION — Denver SPE Section and Colorado School of Mines SPE Student Chapter

Climate Change & Energy Supply: Are you an Ostrich or an Eagle?

Mr. Darcy Spady, 2018 SPE President and Managing Partner of Carbon Connect International.

📍 Zoom Meeting: Click “Register Now” to receive the Zoom link.

📅 Wednesday, April 21, 2021 | 5:00 PM – 7:00 PM

Event cost for Students: Free

Event cost for Professionals: Members \$10 / Non-members \$20
(These funds go towards Scholarships for the Students)

[Register Now](#)

Abstract: One of the most passionate points of argument among global members of SPE is that of Climate Change. It is polarizing, passionate, and persistent. There are few clear answers and the amount of time wasted in the debate has been colossal. As energy professionals, we can choose to wade into the debate or move ahead with solutions that are pragmatic, practical, and help the world solve its energy needs in an efficient manner. We are Engineers, not political science majors. It’s about doing, not debating! This talk will address some practical issues such as energy poverty, production efficiency, fugitive emissions, and how we can “get our head out of the sand” and provide energy, infrastructure, and food supply to a never-ending group of consumers – even in Colorado!



Biography: Darcy Spady, the 2018 SPE president, is the first Canadian to have been elected to this position. Spady, who is managing director at Carbon Connect International, has been an active SPE member since graduating from university. Most recently, he served on the SPE International Board as regional director for Canada. Spady has held officer positions in the Calgary, Illinois Basin, and Appalachian sections. In 2012, he won a Regional Service Award for his work in the Canada region.

Spady has an extensive background in the natural gas, oil, and heavy oil segments of the industry, having worked a decade for

Schlumberger across North America in its wireline and pressure pumping segments, as well as with Columbia Natural Resources/Triana Energy group in the Appalachians, and Atlantic Canada. He has also served as CEO of Calgary-based Contact Exploration and more recently as head of sales for Sanjel Corporation. He is an active independent director, serving as board chairman for Green Imaging Technologies, Crestwynd Exploration, and as a board member of MNP Petroleum. He previously served on the boards of Edge Resources, Contact Exploration, Guildhall Minerals, and Poplar Point Exploration. Spady holds a BS degree in petroleum engineering from the University of Alberta.

If you have any questions, please contact Chiang Cheng Siew at cchengsiew@mymail.mines.edu or Tugce Calisgan at tcalisga@mymail.mines.edu



2021 CLAY SHOOT TOURNAMENT

Date: April 30th, 2021

Event: 1:30 PM - 5:00 PM

Location: Kiowa Creek Sporting Club 46700 County Rd 30,
Bennett, CO 80102

To register, use the following link or scan QR code:

<https://forms.gle/LHEjCcMsseUupP7S7>



Join the Colorado School of Mines SPE chapter in their annual clay shoots at Kiowa Creek Sporting Club in Bennett, CO on April 16th, 2020!

The main shooting event begins at 1:30 pm and ends at 5:00 pm. There are opportunities to play in student-industry hybrid groups to network and build industry connections.

For more information contact GE Roose at groose@mymail.mines.edu

COMMUNITY OUTREACH

Do you want to teach young students about energy, serve breakfast at the Denver Rescue Mission, or judge science fairs? Join other SPE members in giving back to our community!

Upcoming Events:



SPE Serves Breakfast at the Denver Rescue Mission

Date: March 16th, 2021

Time: 6:30 am – 8:30am

Location: Lawrence Street Community Center | 2222 Lawrence Street, Denver, CO 80205

Limit: 10 volunteers

Free

Description:

Please join SPE Denver in their support of the Denver Rescue Mission, a nonprofit organization helping the poor and homeless populations of the Denver area at the Denver Coliseum. More than 85% of the services of the Denver Rescue Mission are operated by volunteers, serving people experiencing homelessness and poverty in our community since 1892. Please come and bring friends or family.

Please Contact Community Outreach Team-member, Katrina Baer, for more details! kbaer@calfrac.com

Register Now

SPE in Support of Special Olympics Colorado at the Denver Polar Plunge & 5K

Date: March 7th, 2021

Time: Team time slots are scheduled throughout the day to maintain social distancing.

Location: Washington Park, Denver, CO

Limit: unlimited volunteers

Free

Description:

Please join SPE Denver in their support of Special Olympics Colorado at the Denver Polar Plunge & 5K. SPE is fielding a team in the Plunge Roulette. We challenge your organization to do the same! Take advantage of the opportunity to create your own corporate team or form a team from friends and family!

Please Contact Community Outreach Team-member, Katrina Baer, for more details! kbaer@calfrac.com

Register Now

SPE Community Outreach: Speak with High School Engineering Students

Date: March 30th, 2021

Time: Three Junior Class Periods between 8:40 am and 3:20 pm.

Location: Virtual Event; Legacy High School is in Broomfield, CO 80023

Limit: unlimited volunteers

Free

Description:

Speak (virtually, i.e., no travel needed!) with a class of approximately 30 students enrolled in Legacy High School's unique and focused STEM program. We will visit with three separate junior class periods during the day. Each visit begins with a short introduction during which each participant will share with students (1) who they are, (2) what they do, and (3) how they got there. Next, volunteers and students will form small breakout groups, during which participants field questions and answers (Q&A) from students about student topics of concern regarding university and post-university professional life. Based on student feedback, topics might include education, job search, and what it means day-to-day to be a technical professional. We are specifically looking for people who feel comfortable interacting and conversing with high school students.

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nbleenergy.com

Register Now

SPE Sponsors Colorado Science & Engineering Fair - Call for Judges

Date: April 8th, 2021

Time: All-day

Location: Virtual Event

Limit: unlimited volunteers

Free

Description:

The Denver Metro Region Science and Engineering Fair (DMRSEF) winners compete in the Colorado Science and Engineering Fair (CSEF). Winners at the state level proceed to the International Science and Engineering Fair (ISEF). The mission of the CSEF is to honor science, technology, engineering, and mathematics; provide opportunities for students from all regions of the state to create and present their research in environments that nurture science and technology; promote professional skills, high ethical standards, diversity, and continuing intellectual development. Final (virtual) Judging will take place on **Thursday, April 8th** (Category Awards Judging) – please keep this date in mind when signing up. Learn more at <http://www.csef.colostate.edu/index.html>

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nbleenergy.com

Register Now

SPE Community Outreach: Speak with High School Engineering Students

Date: April 20th, 2021.

Time: Three Freshmen Class Periods between 8:40 am and 3:20 pm.

Location: Virtual Event; Legacy High School is in Broomfield, CO 80023

Limit: unlimited volunteers
Free

Description:

Speak (virtually, i.e., no travel needed!) with a class of approximately 30 students enrolled in Legacy High School's unique and focused STEM program. We will visit with three separate freshmen class periods during the day. Each visit begins with a short introduction during which each participant will share with students (1) who they are, (2) what they do, and (3) how they got there. Next, volunteers and students will form small breakout groups, during which participants field questions and answers (Q&A) from students about student topics of concern regarding university and post-university professional life. Based on student feedback, topics might include education, job search, and what it means day-to-day to be a technical professional. We are specifically looking for people who feel comfortable interacting and conversing with high school students.

Please Contact Community Outreach Team-member, Hilary Moore, for more details! hilary.moore@nbleenergy.com

Register Now

Watch this space for additional upcoming volunteer opportunities in the Denver area.

JOINT EFFORT— SPE Denver Section and Rocky Mountain MiT

There is a new effort afoot to help Rocky Mountain region oil industry professionals affected by the industry downturn that has been amplified by the pandemic. Several professional societies have banded together to launch Rocky Mountain Members in Transition, or MiT. This is an outgrowth of the MiT effort by the Society of Petroleum Engineers (SPE) in Houston that the Association of American Petroleum Geologists (AAPG) has joined. Other associated Rocky Mountain organizations now include SPE, AAPG, COGA, DWLS, RMAG, WEN, WOGA, and the University of Colorado, Denver GEM Program. The purpose is to help association members amid a career transition. For more information, please contact Susan Nash at snash@aapg.org or Terrilyn Olson at tmolson8550@gmail.com.

Upcoming Events:

Members in Transition Webinar Series with James Sorensen, John Hamling, Amanda Livers-Douglas, and Matthew Belobraydic

Date: March 4th, 2021

Time: 12:00 pm

Location: Online Webinar

Free

Description:

MiTproudly announces an upcoming CCUS webinar and panel discussion with James Sorensen, John Hamling, Amanda Livers-Douglas, and Matthew Belobraydic, titled: "Emerging Opportunities & Marketplace for CO2 Sequestration: the University of North Dakota EERC Leading the Way on Carbon Capture, Utilization, and Storage." Register free online on the Rocky Mountain Association of Geologists website, here:

Register Now

This will be a 4-person panel presentation of the current work in Carbon Capture Utilization and Storage (CCUS) at the University of North Dakota Energy and Environmental Research Center (EERC). The panel will introduce the status of CCUS, current projects, and opportunities, and then delve into the specific technical and scientific aspects of CCUS that are underway at the EERC. Focus areas will be on specific workflows at the EERC in geology and geophysics for reservoir characterization and the engineering challenges of CO2 storage. The presentation is scheduled to be 45 minutes of presentation slides, and 15 minutes for the audience to field questions to the 4 experts. This talk will be recorded and available online for a short amount of time for attendees with scheduling conflicts.

Members in Transition Webinar Series with Deb Ryan, Moderated by Scott Wilson

Date: March 11th, 2021

Time: 12:00 pm

Location: Online Webinar

Free

Description:

MiT proudly announces an upcoming webinar with SPE Regional Director Deb Ryan, titled: "Changing Regulations and Expected Impacts on the Oil and Gas Industry." Register free online on the Rocky Mountain Association of Geologists website, here:

Register Now

Regulations at both the state and federal levels have been rapidly changing as unconventional development has ramped up, and as public sentiment towards the industry is shifting.

This talk will cover a high-level view of recent regulation, public hearings, and rule changes in some of the key unconventional states, as well as a look at the Federal Executive orders and the impact on federal lands. We will also cover where the industry is possibly heading in terms of regulatory policy and careers. Deb provides insights about oil and gas economics, reserves, regulation, public opinion, and energy transition. Her contributions highlight the balance between economic factors, public opinion, and environmental concerns as they relate to energy production and consumption. As a thought leader and noted voice in the energy industry, Deb was named as one of Ally Energy's "Top Energy Voices" for her "Voice in Sustainability" in 2020 and in 2019 was included in the 40 Top Women in Energy by the Denver Business Journal.

For over 9 years, Deb has served in leadership positions at the

Society of Petroleum Engineers (SPE) where she currently serves as the North American Regional Director on the International Board of Directors. She is also the current Chair of the Ethics Committee for the Society of Petroleum Evaluation Engineers (SPEE). Originally from Australia, Deb is a registered Professional Engineer (PE) in Colorado and Texas.

Please contact Members in Transition team-member Ben Nathan, for more details! bnathan@gmail.com

Society of Petroleum Engineers - Denver Section

<p>Americas 222 Palisades Creek Dr. Richardson, TX 75080-2040 USA</p>	<p>Asia Pacific Level 35, Gardens South Tower Mid Valley City, Lingkaran Syed Putra 59200 Kuala Lumpur, Malaysia</p>	<p>Europe 1st Floor, Threeways House 40/44 Clipstone Street London W1W 5DW UK</p>	<p>Middle East Fortune Towers, 31st Floor Offices 3101/2, JLT Area P.O. Box 215959, Dubai, UAE</p>
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