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Society of Petroleum Engineers

SPE Denver Section

9 February 2024

GENERAL MEETING - SPE DISTINGUISHED LECTURER

Carbon Capture and Storage and the CO2 Storage Resources Management System (SRMS)

<p>Location - NEW VENUE</p> <ul style="list-style-type: none"> • Fogo de Chão <ul style="list-style-type: none"> ◦ 1513 Wynkoop Street, Denver, CO 80202 <p>Date</p> <ul style="list-style-type: none"> • Wednesday, February 21st, 2024 <ul style="list-style-type: none"> ◦ 11:30 AM - 1:00 PM <p>Speaker</p> <ul style="list-style-type: none"> • Rawdon Seager <ul style="list-style-type: none"> ◦ Global Director of Quality Assurance, Gaffney, Cline & Associates 	<p>Session Overview</p> <p>This talk will look at some of the ways in which carbon dioxide can be stored and provide a review of the CO2 Storage Resources Management System (SRMS) framework prepared by the Society of Petroleum Engineers to classify and categorize the storable quantities. Included in the session will be an overview of carbon capture, a discussion of typical modes of storage, a review of the CO2 SRMS, a discussion of economics and a hypothetical example.</p>
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EARLY BIRD REGISTRATION CLOSING FEBRUARY 19TH AT 12:00 PM
 EVENT IS EXPECTED TO SELL OUT
[REGISTER NOW](#)



Meet our Speaker

Rawdon Seager is a reservoir engineer with over 50 years' experience in the international oil and gas arena with Shell, Huffco and, since 1985, Gaffney, Cline & Associates, where he is Chief Reservoir Engineer and Global Director of Quality Assurance. He is currently involved in CCS studies and application of the SRMS.

He has a BSc in Physics from Bristol University and an MSc in Petroleum Engineering from Imperial College, London. Rawdon is past Chairman of the SPE Oil and Gas Reserves Committee and past member of the Board and current Chair of the Reserves Definitions Committee of the SPEE.

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- [General Meeting](#)
- [Technical Happy Hour](#)
- [YP Happy Hour](#)
- [2024 YP Ski Fast Energy Bash](#)
- [SPE Membership Renewal](#)
- [Nominate an SPE Member for an Award!](#)
- [Community Outreach - SPE Cares](#)
- [Community Outreach - Energy4Me](#)
- [Community Outreach - Adventure Day at Munroe Elementary](#)
- [Community Outreach - Polar Plunge](#)
- [2024 Raquetball Tournament](#)
- [Deals on Tickets and Sponsorship Opportunities](#)



TECHNICAL HAPPY HOUR - COMPLETIONS

Validation of Conductive Fracture Imaging with Cross Well Strain and Permanent Fiber Optic Flow

Location

- Ovintiv 40th Floor
 - 370 17th St, Denver, CO 80202

Date

- Tuesday, February 27th, 2024
 - 4:00 – 6:00 PM

Speaker

- Scott Taylor
 - Co-Founder/CEO, Reservoir Imaging Solutions

REGISTRATION AVAILABLE UNTIL DAY OF EVENT

EVENT IS FREE!

REGISTER NOW

EVENT SPONSORSHIP AVAILABLE

Abstract

The study applies Conductive Fracture Imaging (CFI) on Hydraulic Fracturing Test Site- 2 in the Delaware Basin, USA, acquired in 2019. The CFI results are independently delivered and compared with strain data recorded by permanent distributed fiber optic sensor arrays in a vertical data well (the Boxwood 5PH) and two horizontal wells (Boxwood 3H and Boxwood 4H). Boxwood 4H's permanent fiber provides Distributed Acoustic Sensing (DAS) cluster flow and proppant allocation analytics, as well as distributed strain sensing (DSS) for cluster level shut-in pressure build-up tests.

The objective of this study is to directly compare CFI results with in-well DAS and DSS fiber optic measurements. CFI utilizes microseismic events as active sources for reflection imaging of the conductive portion of hydraulic fractures, offering high-resolution images of the seismically active zone for precise description of cluster level fluid allocation and conductivity.

CFI has been benchmarked successfully against established fiber optic diagnostics, providing insights into conductive fracture geometries, cluster efficiencies, and in-well production flow profiling. Key advantages of CFI include imaging fluid and proppant allocation at the cluster level, offering a four-dimensional view of dynamic transport, estimating fracture height, and providing valuable data on hydraulic and conductive fracture geometries.

The study reveals strong correlations between CFI and cross-well strain intensity measured by fiber monitors, as well as good agreement with in-well DAS stimulation fluid allocation.

Furthermore, CFI shows clear correlations with cluster level DSS strain changes during the production phase, accurately resolving cluster positions along the wellbore. Cluster level reflectivity values from CFI demonstrate a robust agreement with DSS strain change peak values observed on the same clusters.

Meet our Speaker


Scott Taylor has over 20 years' direct experience spanning finance, energy, mining, defense, and civil engineering industries. He graduated from Franklin College (Lugano) Switzerland with BSc in Finance 2002. Scott started his career raising money for both public and private markets as well as mining project in commodities trading. He co-founded Reservoir Imaging Solutions (RIS) in 2019, a technology-driven subsurface imaging company that was recognized by Darcy Partners as one of the top 10 subsurface oilfield technologies in 2022. Scott also founded Lithos in 2022 and took it public (CBOE:LITS) in Q2 of 2023. Lithos is a technology company focused on delivering sustainable lithium production from brine reservoirs. Scott has prior technical and financial experience in exploration, development, and pilot scale production on mines in Canada, Mexico and the Russian Federation. His experience also includes five years working for an engineering company in the mining and energy space which included resource development and drill programs on mines, and his skill-set enables him to work hands-on in the field and advising to use modern subsurface imaging techniques. He is a published author, has 5 issued patents, and is an invited speaker and member of the Society of Petroleum Engineers and the Society of Exploration Geophysicists.




SPE YOUNG PROFESSIONALS

Cores n Brews

PRESENTED BY: FEBRUARY 22 | 5 - 7 PM*



Come join us on a tour of Core Lab
 followed by beers and networking at
 Burns Family Alehouse next door!
 *LAB TOUR BEGINS AT 5:15
 Core Lab: 2550 W. 2nd Ave, Suite 110
 Burns Alehouse: 2505 W. 2nd Ave, Unit #13







YOUNG PROFESSIONALS 2024 SKI TRIP



SPE YP SKI FAST ENERGY BASH



#WORKFROMTHESLOPES
KEYSTONE, CO
MARCH 8-10

SPONSORSHIPS AND A-LA-CARTE REGISTRATIONS ARE NOW OPEN!





SPECIAL ANNOUNCEMENTS - MEMBERSHIP RENEWAL

RENEW YOUR MEMBERSHIP FOR 2024!

ADVANTAGES OF MEMBERSHIP:

- ✔ Access to JPT and OnePetro
- ✔ Stay up to date with industry events
- ✔ Enjoyed discounted workshops and publications



MORE INFORMATION
www.spe.org/en/join/renew/



RENEW HERE!

SPE MEMBERSHIP

TOP EMPLOYERS	DISCIPLINE BREAKDOWN
<ol style="list-style-type: none"> 1. Liberty Energy (25) 2. Colorado School of Mines (22) 3. Inerred (21) 4. Oxy (18) 5. BPX (13) 6. Consultant (11) 7. SM ENERGY (8) 8. APIS Petroleum (8) 9. HSE (10) 10. Chevron (9) 11. Anschutz (6) ** Undisclosed (99) 	<ol style="list-style-type: none"> 1. Reservoir (346) 2. Completions (216) 3. Production (208) 4. Management (152) 5. Drilling (119)





SPECIAL ANNOUNCEMENTS - SPE AWARD NOMINATIONS



Nominate a well-deserving colleague by clicking here **TODAY!**

SPE recognizes members for the following categories at two levels: **Regional (March 1st)** and **International (February 15th)**

- Technical Contributions
- Service to Colleagues
- Professional Excellence
- Industry Leadership
- Career Achievement
- Public Service





COMMUNITY OUTREACH - SPE CARES

SPE Serves Breakfast at the Denver Rescue Mission



Location

- Lawrence Street Community Center
 - 2222 Lawrence Street, Denver, CO 80205

Date

- Tuesday, February 20th, 2024
 - 6:45 AM – 8:30 AM

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 Rescue Mission. 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 get in touch with community outreach team member [Nico Cosca](#) for more details!

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.





COMMUNITY OUTREACH - DMRSEF



Contact Julie Tannehill for more information: tannehilljulie@gmail.com

Give Time

VOLUNTEERS:
From fair setup to photographers, student advocates to display & safety judges, we need all types of volunteers to make the fair a success.

Give Money

Volunteer shifts available:
Thursday, February 22nd
Friday, February 23rd
Saturday, February 24th
Sunday, February 25th

Give Connection

JUDGES:
Interview students, evaluate projects, and help us determine this year's DMRSEF winners!



Over 100 volunteer judges are needed and we would love a strong representation from SPE!

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.





COMMUNITY OUTREACH - ADVENTURE DAY AT MUNROE ELEMENTARY

**Adventure Day,
Energy Day,
Great Day,
at
Munroe Elementary**

Volunteers needed to help teach youth about our industry!

**8:00-11:00am
Monday February 26th, 2024**

For more information please reach out to tannehilljulie@gmail.com

The graphic features a blue background with yellow circular accents. On the left, there are two photographs: one showing a group of people sitting around a table, and another showing a person presenting at a screen. The text is in yellow and white.

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.





COMMUNITY OUTREACH - POLAR PLUNGE

POLAR PLUNGE
— 2024 —

Join our Team March 3, 2024
to support Special Olympics Colorado
do one or both
5K Run\Walk followed by and Ice Bath
Wash Park, Denver, CO

A LAW ENFORCEMENT TORCH RUN EVENT

Contact Julie Tannehill for more
information: tannehilljulie@gmail.com

Special Olympics
Colorado

SPE International
Denver Section

The graphic features a white polar bear holding a rainbow torch, set against a blue background with snowflakes and mountain peaks. Logos for SPE International and Special Olympics Colorado are also present.

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.





SPECIAL EVENTS



\$40 Registration Fee (\$20 for students) includes banquet with drinks, food, awards, and door prizes! All skill levels encouraged to sign up.

Sponsorship Opportunities Click Here!

Platinum - \$600

Gold - \$450

Silver - \$350





SPECIAL ANNOUNCEMENTS

General Meeting Ticket Packages Available for 2023/2024



Interested in purchasing a block of tickets for the general meetings at a discounted price?

Purchase your block of tickets then register using the promo code we send you for any general meeting for the 2023/2024 season!

5 Tickets - \$200
10 Tickets - \$400
20 Tickets - \$800

Sponsorship opportunities available!

	Per Yearly Meeting \$1,000	COO \$750	EXCER \$500
General Meetings (GM) held Monthly			
8 available GMs within the year cycle	•	•	•
GM Sponsorship Opportunities*			
Exclusive sponsor of the entire yearly program	•	•	•
Exclusive sponsor for single general meeting	•	•	•
Sponsor of a single general meeting (non-exclusive)	•	•	•
Benefits			
Company's short ads added to SPE Denver Monthly Newsletter	•	•	•
Acknowledgement on Website (Sponsorship Banner)	•	•	•
2 Attendee Passes Per Session	•	•	•
Option to provide advertisement material at the registration table	•	•	•
Company logo on name tags	•	•	•
1 Attendee Pass to the GM Being Sponsored	•	•	•
Facebook / Twitter / LinkedIn Event Posts	•	•	•
Acknowledgement on Website (Event Advertisement)	•	•	•

*All contributions made to our programs are considered charitable contributions for IRS purposes

CONTACT DENVERSECTION@SPEMAIL.COM FOR MORE INFORMATION!



Society of Petroleum Engineers - Denver Section

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. [Privacy Policy](#) | [Contact Customer Service](#) | [SPE.org](#)

