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## **SPE Denver Section**

9 February 2024



### **GENERAL MEETING - SPE DISTINGUISHED LECTURER**

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

**Location - NEW VENUE** 

- Fogo de Chão
- 1513 Wynkoop Street, Denver, CO 80202

#### Date

- Wednesday, February 21st, 2024
  - 11:30 AM 1:00 PM

#### Speaker

- Rawdon Seager
  - Global Director of Quality Assurance, Gaffney, Cline & Associates

EARLY BIRD REGISTRATION CLOSES FEBRUARY 19TH AT 12:00 PM EVENT IS EXPECTED TO SELL OUT REGISTER NOW

### **Session Overview**

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 of the CO2 SRMS, a discussion of economics and a hypothetical example.



## **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 ivolved 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. Visit us at denverspe.org





- 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
- <u>Community Outreach</u> Energy4Me
- Community Outreach -Adventure Day at Munroe Elementary
- <u>Community Outreach Polar</u> <u>Plunge</u>
- 2024 Raquetball Tournament
- <u>Deals on Tickets and</u> <u>Sponsorship Opportunities</u>



## **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 SEVENT 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 ensors arrays in a vertical data well (the Boxwood SFH) and two horizontal wells (Boxwood SH and Boxwood 4H) Boxwood 4H\*s permanent fiber provides Distributed Acoustic Sensing) (DS) cluster flow and propapart allocation analytics, as well as distributed strain sensing) (DSS) for cluster feed shurb in presume build-up test even shurp in the shurp i

The objective of this study is to directly compare CFI results with inwell DAS and DSS fiber optic measurements. CFI utilizes microseismic wents as active sources for reflection imaging of the conductive portion of hydraulic fractures. offering high-resolution images of the sessimically 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**

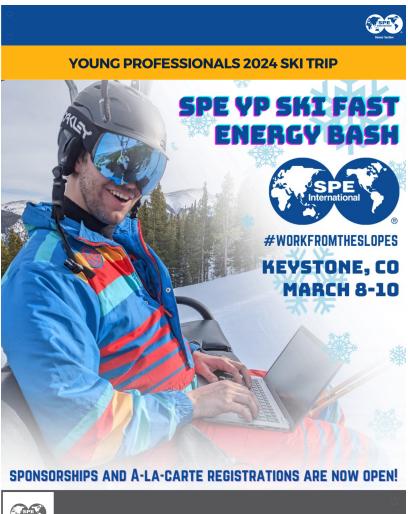
Scott Taylor has over 20 years' direct experience spanning finance, energy, mining, defense, and civil engineering industries. He graduated from Franklin College (Lugano) Switzerland with BSc in Finance 2002. Scott started his career raising money for both public and private markets as well as mining 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.



## YOUNG PROFESSIONALS HAPPY HOUR



















## **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 <u>Nico Cosca</u> for more details!





## **COMMUNITY OUTREACH - DMRSEF**



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



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

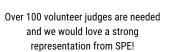
















## COMMUNITY OUTREACH - ADVENTURE DAY AT MUNROE ELEMENTARY







## **COMMUNITY OUTREACH - POLAR PLUNGE**







## **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





## **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.

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