

GENERAL MEETING

Screenouts, Shutdowns, and Delays: Driving Operational Awareness in the Haynesville Through Smart Stage Categorization

Location

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

Date

- Wednesday, April 16th, 2025
 - 11:30 AM – 1:00 PM

Speaker

- Jessica Iriarte
 - General Manger -
Completions, Corva

Session Overview

Optimizing well performance while reducing costs remains a top priority for operators, yet traditional, siloed approaches to data analysis often hinder efficiency. This talk presents a structured, data-driven methodology for categorizing hydraulic fracturing stages to identify deviations from pumping designs that lead to increased costs, inefficiencies, and unpredictability. By automating the detection of operational issues and distinguishing between surface- and subsurface-driven problems, stage categorization enables faster troubleshooting, optimized resource allocation, and enhanced decision-making. Integrating time-series and wellbore design data uncovers links between operational challenges and geological variability, providing actionable insights for post-job analysis and real-time decisions. This approach lays the groundwork for predictive analytics and scalable, basin-wide applications—empowering operators to move from reactive issue management to proactive, data-driven optimization.

EARLY BIRD REGISTRATION
CLOSES APRIL 14TH AT 12:00 PM
EVENT IS EXPECTED TO SELL OUT

REGISTER NOW

Sponsor:



Meet our Speaker

Jessica Iriarte is the General Manager of Completions at Corva. With 13+ years of international experience in data science, research, and operations. She's an inventor with four patents, former SPE distinguished lecturer, and has held several leadership roles in SPE. Jessica has a BS and MS degree in Petroleum Engineering.

Jessica is committed to cultivating a diverse and inclusive work environment. She's relentlessly curious and constantly finding different ways to connect with nature, usually by hiking, camping, and gardening.

TECHNICAL HAPPY HOUR - COMPLETIONS

Bedding Plane Slippage and Fault Reactivation Captured by Cross-well LFDAS Monitoring During Hydraulic Fracturing

Location

- Liberty Energy
 - 950 17th St, Suite 2400, Denver, CO 80202

Date

- Tuesday April 29th, 2025
 - Happy Hour starts at 4:00 pm
 - Talk at 4:30 pm
 - Social until 6:00 pm

Speaker

- Joseph Mjehovich
 - Geophysicist, IFData LLC

NO REGISTRATION NECESSARY

EVENT IS FREE!

Sponsored by:



Abstract

This study provides the first direct observations of horizontal bedding plane slippage detected using cross-well low-frequency distributed acoustic sensing (LFDAS) during hydraulic fracturing stimulation in the Sichuan Basin, China. Traditional completion designs assume vertical tensile fracture propagation; however, under certain stress and geological conditions, fractures may grow horizontally, reducing stimulation efficiency and posing risks such as induced seismicity and wellbore deformation issues. Distributed strain signals captured in a horizontal observation well displayed elliptical contours spanning multiple stages (300-700 m), characteristic of horizontal fracture growth. Additionally, fault reactivation triggered by the horizontal fracture propagation is identified through a paired dipole-stripe signature in the strain signal. To validate these interpretations, a displacement discontinuity method-based geomechanical model was applied, history-matching the LFDAS strain signals observed during selected treatment stages. The model confirmed that a shear deformation component is required for horizontal fractures to match field signals, implying bedding plane slippage. It also verified hydraulic connectivity between several natural faults and the horizontal fracture plane during injection, leading to fault reactivation. These findings demonstrate the value of cross-well strain monitoring combined with advanced modeling techniques in understanding fracture behavior in complex geological settings. Recognizing the role of geological factors, such as weak bedding planes and natural faults, is essential for accurately predicting fracture growth, optimizing stimulation strategies, and minimizing risks in unconventional reservoir development.

Meet Our Speaker

Joseph Mjehovich is a Geophysicist at IFDATA, specializing in the research and development of distributed fiber-optic sensing for reservoir characterization and well design diagnostics. His work focuses on advancing the analysis and interpretation of cross-well fiber-optic measurements and integrating the company's research and workflows into real-world field projects. Joseph holds a Master of Science in Geophysics from the Colorado School of Mines, where he contributed as a research associate in the Reservoir Characterization Project (RCP) Consortium. His research included quantitative analysis of fiber-optic sensing data to better understand the driving mechanisms of hydraulic fracture development. Additionally, Joseph explored the application of distributed acoustic sensing for near-surface seismic surveys to aid earthquake hazard site classification.

CSM GOLF TOURNAMENT

**COLORADO SCHOOL OF MINES
SOCIETY OF PETROLEUM ENGINEERS**

GOLF TOURNAMENT



Colorado School of Mines
SPE Student Chapter

SIGN UPS OPEN NOW!

**24 APRIL
2025**

REGISTER AT:

[HTTPS://COMMERCE.CASHNET.COM/
MINESRLAB?ITEMCODE=RLAB-PEGLF1](https://commerce.cashnet.com/minesrlab?itemcode=rlab-peglf1)

SPRING PICKLEBALL TOURNAMENT



Oilfield Pickleball Tournament Rocky Mountain Region

2025 SPE & AADE

Pickleball Tournament

FRIDAY, MAY 16TH

3rd Shot Pickleball, Wheat Ridge, CO

Tournament begins at 3PM

Drinks and light food will be provided

Team themes are encouraged, and prizes will be awarded!



Sponsorships are available!

PRESENTING SPONSOR (1) - \$3,000

INCLUDES NAME & LOGO ON LARGE, PRINTED BRACKETS. ALSO INCLUDES A COURT NAMED AFTER THE SPONSOR, THE COURTS WILL BE REFERRED TO BY THE SPONSOR THROUGH THE ENTIRETY OF THE TOURNAMENT TO HELP PLAYERS FIND THEIR MATCHES.

COURT SPONSOR (3) - \$1,500

EACH COURT SPONSOR WILL HAVE A COURT NAMED AFTER THEM. THE COURTS WILL BE REFERRED TO BY THE SPONSOR THROUGH THE ENTIRETY OF THE TOURNAMENT TO HELP PLAYERS FIND THEIR MATCHES.

DRINKS SPONSOR (1) - \$1,000

SPONSOR OF DRINKS (BAR ON-SITE) FOR THE EVENT. EACH PLAYER RECEIVES TWO

FOOD SPONSOR (1) - \$1,000

SPONSOR OF FOOD (PIZZA AND SNACKS AVAILABLE)

BALL SPONSOR (LOGO ON CUSTOM PICKLEBALLS, MUST BE ORDERED BY APRIL 30TH) - \$1,000

BY LAWS VOTE

SPE Denver Section

4/7/2025

Dear Denver Section Members,

This is a notice that there will be two votes at our next **General Meeting** scheduled for **April 16, 2025**. We encourage all members to review the proposed changes in advance and participate in the voting process.

As part of our ongoing efforts to improve and strengthen the SPE Denver Section, the Board of Directors have proposed several amendments to the organization's bylaws. These proposed changes are designed to better align with the evolving needs of our membership and ensure the continued growth and success of the organization. This will be **Motion 1**.

We believe it is important to keep all members informed and engaged in this process. Therefore, we are providing you with a summary of the proposed amendments for your review:

- Updated areas of jurisdiction of the SPE Denver Section (Article III)
- Updated titles and positions for the Denver Section Board (Article V)
- Updated Duties of Officers and term lengths (Article VII)
- Updated Meetings Section I to properly reflect the current meeting election process. (Article XI)

To view the full text of the proposed amendments, please visit **SPE Denver Section By-Laws - Denver SPE "Proposed By Laws Changes"** on the section website under the **About** menu. Should you have any questions or require further clarification, please do not hesitate to contact Denver.SPE@gmail.com

In our efforts to preserve scholarships that will impact our local industry, a committee of board members have proposed an investment strategy to protect specific scholarship funds (separate from section operational funds) for future Denver Section Members and updating our bylaws to reflect this change. This is to define the intent for these funds, and that they are used in the Rocky Mountain region. This will be **Motion 2**.

We value your input and active participation as we continue to grow and evolve as an organization. Thank you for your attention to this important matter.

Thank you,
The Denver Section Board

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, April 15th, 2025
 - 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 consider donating your time for a worthy cause. Feel free to bring friends and family to help out.

- 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.



MEMBERSHIP RENEWAL

RENEW YOUR MEMBERSHIP FOR 2025!

ADVANTAGES OF MEMBERSHIP:

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



RENEW HERE!



MORE INFORMATION

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

Events in the Community

DPC FAMILY CRAWFISH BOIL



MUSIC
CRAWFISH
DRINKS
ART
GAMES

**FRIDAY
4.11.25
4:00 PM**

SKYLIGHT DENVER
833 Santa Fe Drive
Denver, CO 80204

\$60
Members

\$100
Non-Members

\$40
General Admin
(food truck)

Kids 12 and under
are free

EACH TICKET INCLUDES
3 LBS OF CRAWFISH

FOOD TRUCK OPTION AVAILABLE

DPC  RSVP. Become a DPC Member or Renew at www.denverpetroleumclub.com



**Monograph 5 Training: Denver Chapter
Monday, May 5, 2025 and Tuesday, May 6, 2025**

Rocky Mountain Association of Geologists



North American
**HELIUM &
HYDROGEN**
Conference

Denver, Colorado ~ April 9-10, 2025

Geoscience ~ Exploration ~ Commercialization



SPECIAL ANNOUNCEMENTS - SPONSORSHIP OPPORTUNITIES

Sponsorship opportunities available!

	PLATINUM \$5,000	GOLD \$750	SILVER \$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 adds 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*

Please contact Denver.SPE@gmail.com for more information



Denver Section



SPE DENVER SECTION

NEEDS YOU!

TO GET INVOLVED!



VOLUNTEERS NEEDED: COMMUNICATIONS

- Webmaster

COMMUNITY OUTREACH

- Mentors
- Science Fair Judges
- Science Fair Helpers
- Event Participants

MEMBERSHIP

- Company Champions
- Sponsors
- Participants

Sign-up Link on Website:

<https://denverspe.org/all-purpose-help-volunteer/>