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**Dear SPE Denver Section Community,**

The 2021-2022 Denver Executive Board Voting Slate. Members of the SPE Denver Section now have the opportunity to vote to confirm the following nominees for the 2021-2022 Denver Section Executive Board: click [HERE](#) to vote now.

Chairperson	Eric Lyche
Past Chairperson	Jessica Iriarte
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Treasurer Elect	Philip Ouellette
Program Chair	Ben Nathan
Secretary/Publicity	Claudio Ramos
Membership	Alex Straw
Community Outreach	Katrina Baer
Young Professionals	Andrew Johnson
Section Director	Joe Dumesnil
Section Director	John Benton

We greatly appreciate our outgoing board members and are excited about the challenges of the new year.

Sincerely,



Jessica Iriarte  
**SPE Denver Section Chairperson**

May 24, 2021

## GENERAL MEETING—DISTINGUISHED LETURER

### Making Decisions Using Completions Diagnostic Tools in Unconventional Reservoirs

*Kyle Haustveit, Geoscience Manager, Devon Energy.*

 Zoom Meeting: Click “Register Now” to receive the Zoom link.  
 Wednesday, June 2<sup>nd</sup>, 2021, 11:30 AM – 1:00 PM

**Register Now**

#### Abstract:

Properly defining the question and associated value in the answer is the first step in designing a diagnostic program. This presentation will focus on the use of diagnostic tools to characterized fractures created in hydraulically stimulated reservoirs, focusing on fracture height. The performance of hydraulically stimulated horizontal wells in unconventional reservoirs depends largely on the quality of the completion. When developing an unconventional field with horizontal, hydraulically stimulated wells, proper characterization of fracture geometry can yield a more economic field development strategy in well spacing and completion design. The size of the fractures created directly impacts the spacing between wells and the number of wells required to economically produce the resource in place. Completion costs commonly account for more than 50% of the total well cost in horizontal, unconventional wells. In developments with tens to hundreds of wells planned, small improvements in completions design can yield massive value additions to a program. The earlier the performance drivers are identified and the uncertainty in the range of outcomes is minimized, the sooner optimal field development can take place. This presentation will outline the process of defining the question, assigning value to the answer and review available diagnostics. The presentation will cover a case study focused on evaluating fracture height using fiber optic strain monitoring, and two forms of offset pressure monitoring to reduce the uncertainty in the well count in a stacked pay development.

One take away: before we select the diagnostic tool(s) we plan to employ; we must first define the question we are trying to answer to ensure the value of the answer exceeds the cost of the diagnostic.

#### Biography:

Kyle Haustveit professional engineer registered in the state of Oklahoma. He is a completions engineer in a centralized subsurface group at Devon Energy. Kyle is focused on completions design, fracture modeling and diagnostic program design and interpretation. Kyle is a graduate from Montana Tech with a bachelor’s degree in Petroleum Engineering. He has authored multiple technical papers and file multiple patents related to offset pressure monitoring during hydraulic stimulation.



Interested in a professional PE license exam preparation course? Gary Bing Wines is coming to Denver in September 20-24, 2021. To learn more and register please tap the WinRock Logo.

In this Issue...

- [PE License Course](#)
- [PE License Course](#)
- [DL - General Meeting](#)
- [Completion Study Group](#)
- [SPE Fundraiser](#)
- [SPE Memberships](#)
- [Volunteering Opportunity](#)
- [Community Outreach](#)
- [Denver Chapter Election](#)

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Kyle is currently serving on the SPE Completions Advisory Committee, the Hydraulic Fracturing Technical Conference committee, Intelligent Wells committee and the Well Completions for Unconventional Resource Development committee.

## COMPLETIONS STUDY GROUP

### A New Approach to Sealing Unwanted Casing/Liner Perfs, Breaches and Leaks

*Dale Larsen, Business Development Manager, New Well Tech, LLC.*

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

📅 Tuesday, May 25, 2021 | 11:50 AM – 1:00 PM

[Register Now](#)

**Abstract:** Shale wells often drop to sub-economic levels in a relatively short period of time due to rapid production decline, water production, or wellbore interference issues. To salvage these wellbores, it requires a reliable method to fix their leaks and breaches or to block the unwanted fractures and perforations that already exist from the original completion.

A sealant material has been developed which is liquid on surface, then cures to form a pliable solid that can seal unwanted perforations or fracture openings.

Field tests were performed on a vertical well that had been fractured in two stages. The sealant material was bullheaded into both perf clusters simultaneously. It was then squeezed into the formation while slightly under displacing. After the material cured to a solid, the excess remaining in the wellbore was drilled out. Pressure tests were done on both intervals to see how much differential pressure the sealant could hold.



**Biography:** Dale graduated with a B.S. degree in Geological Engineering from the South Dakota School of Mines. He has worked in the oil and gas industry for 39 years spending several years with The Western Company of North America, BJ Services and Calfrac Well Services. He served as a Production Engineer for EP Production and Westport Resources and as a Production Superintendent for Questar E&P. He has worked extensively in Colorado, Utah and South Texas. Dale has written three Society of Petroleum Engineers (SPE) papers

while serving in many leadership roles for SPE. He has served on the Board of Directors for the Denver Petroleum Club and Ministry Architecture, a charitable architectural ministry working in SE Asia, Africa and South America. Dale spent several years serving on the Board of Advisors with Western Energy Alliance (WEA) and the Legislative, Legal and Regulatory Committee for Colorado Oil and Gas Association (COGA). Dale is the 2017 recipient of the WEA Roustabout Award which recognizes Distinguished Career Achievement in the Service Sector of Oil and Gas.

Dale worked from 2016 – 2019 as the Industry Advocate for Calfrac defending our industry in the public arena. He has spoken in many venues informing and advocating groups about Hydraulic Fracturing including Colorado Oil and Gas Association (COGA); Department of Energy (DOE) Analytical Services Program; Energy Fellows Institute; 2018 ICoTA Conference (San Antonio); 2019 Refracturing Conference (Houston) among others.

Dale is currently employed by New Well Tech, a Houston-based company, that promotes a new refracturing science.

## SPE—Fundraiser!



For more information on how to become a sponsor and register early please email us at [denverspegolf@gmail.com](mailto:denverspegolf@gmail.com). Registration will open after June 3 for everyone [HERE](#).

## SPE—MEMBERSHIPS!

FRIENDLY REMINDER

RENEW YOUR MEMBERSHIP

Did you renew your membership before the end of 2020?  
Sign in at [spe.org](http://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](mailto:service@spe.org)



Did you renew your membership before the end of 2020? Sign in at [spe.org](http://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](mailto: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.

### 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:** June 15<sup>th</sup>, 2021

**Time:** 6:15 am – 8:30am

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

Limit: 8 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](mailto:kbaer@calfrac.com)**

**Register Now**

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

**Society of Petroleum Engineers - Denver Section**

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

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