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**Dear SPE Denver Section Community,**

The summer is coming to an end; thus, we have a few announcements to kick start our Fall activities. First of all, we are happy to announce that during the summer we were awarded the SPE Section Excellent Award for 2020. A prestigious recognition awarded to only 20% of all eligible sections for accomplished an admirable level of success.



Congratulations to all members and a special acknowledgment to all volunteers who make this possible!

Sincerely,

Jessica Iriarte  
**SPE Denver Section Chairperson**

During these unprecedented times, SPE is here supporting our members! We are currently offering a **50% discount\*** on your membership renewal for 2020 (applied at checkout) and recent graduates are eligible for **Free** membership. Additionally, starting on August 1<sup>st</sup>, new individuals joining SPE will pay full price, but membership extends through the end of 2021.

Membership is essential to keeping you connected to a global network, with online resources enabling you to stay current and enhance your technical knowledge.

*\*The 50% discount is not applicable for Country Group 2 electronic membership. To receive this special offer, you must use the renewal link below or contact [service@spe.org](mailto:service@spe.org).*

**[RENEW NOW!](#)**

### Stay connected and involved right now!

- Access to the latest E&P technologies and trends in [SPE publications](#) (Now through July 31st, with every purchase of a printed book, receive it in eBook format, too!)
- Subscription to the [Journal of Petroleum Technology](#)<sup>®</sup> magazine, and articles online
- Access to 180,000+ technical documents in [OnePetro](#)<sup>®</sup>, the multi-society, online library. (SPE has reduced the member price of all SPE papers in OnePetro to just USD 5 per paper through 31 December 2020)
- Knowledge transfer, industry insights, and development of technical and soft skills through [online offerings](#) like:
  - [Distinguished Lecturer webinars](#)
  - [Online educational webinars and virtual events](#)
- Global knowledge sharing and networking in [member communities](#).
- Knowledge sharing and networking through our sections.

### ***Assisting Members in Transition:***

- Dues waivers for members who have been furloughed or unemployed due to COVID-19, contact [service@spe.org](mailto:service@spe.org).
- Enhanced the resources available on our [Members in Transition](#) pages.
- Launched a new virtual support community for members to [connect](#) during these challenging times.
- Created a [job board](#) where members can post their resume and search available job postings at no cost. Companies can also post available positions and search through resumes.

September 1, 2020

## DISTINGUISHED LECTURER

### Mitigating Production Degradation Due to Frac Hits in Unconventional Reservoirs

*Junjing "ZJ" Zhang.*

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

📅 Wednesday, September 16<sup>th</sup>, 2020, 12:00 PM – 2:00 PM

**Register Now**

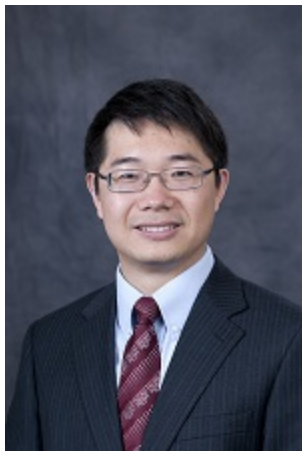
### Abstract:

In unconventional reservoirs, a "frac hit" is the infill-to-parent well communication during hydraulic fracturing. In most shale plays, production from the parent-infill well system drops below original forecasts due to production degradation after fracture hits from offset wells. This study reviews current methods to mitigate the production degradation and evaluates the effectiveness of these methods. Major challenges and opportunities are also presented. The mitigation methods discussed in this lecture include (1) applying far-field diverter during fracturing in the infill wells, (2) reinjecting water into the parent wells, and (3) refracturing parent wells. Key design considerations for each method are presented in detail. A total of 565 fracture "hit events" at 41 impacted parent wells are statistically analyzed. Long-term well performance of several hundred impacted wells are also evaluated.

Based on the comprehensive analysis, the abovementioned three mitigation methods are field-proven and effective in protecting parent wells and improving infill well stimulation efficiency. With low operational costs, pumping far-field diverters results in a P50 EUR increment by 6%, with a 20% failure rate in the parent well protection. Water reinjection in the parent wells shows successful parent well protection, but the impact on the long-term well performance is negligible. Re-stimulation of properly selected parent wells with near-wellbore diverters indicates a P50 EUR increment by 40%. The selection of parent well protection methods needs to be fit-for-purpose and is fundamentally dictated by well conditions, operational experience, and economic models applicable to the area.

Take-away: "Frac hit" mitigation methods need to be fit-for-purpose and are fundamentally dictated by well conditions, operational experience, and specific economic models.

### Biography:



Junjing Zhang is a senior engineer in the Global Wells organization at ConocoPhillips. He supports completion and fracturing across ConocoPhillips assets in Lower 48 Eagle Ford, Bakken, Alaska, China, Canada, and Australia. He has 12 years of research and industry experience. Zhang has developed expertise in well stimulation, wellbore related geomechanics, and applied data analytics. Zhang holds a Ph.D. degree from Texas A&M University. He has received 5 SPE awards, including the 1st place award for the SPE International Student Paper Contest (Ph.D. group). Zhang also received the ConocoPhillips Outstanding Early Career Technologist Award. He has authored 9 journal publications and has made over 30 presentations at various SPE occasions. He currently serves as a program committee member and session chair for the SPE Hydraulic Fracturing

Contest (Ph.D. group). Zhang also received the ConocoPhillips Outstanding Early Career Technologist Award. He has authored 9 journal publications and has made over 30 presentations at various SPE occasions. He currently serves as a program committee member and session chair for the SPE Hydraulic Fracturing



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Technology Conference and Exhibition. Zhang is also a licensed Professional Engineer in the State of Texas, U.S.A.

## COMPLETION STUDY GROUP

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### Dual Fracturing Operations - Logistics and Best Practices

*Chris Caplis, Completion Manager at Sundance Energy.*

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

📅 Thursday, September 24<sup>th</sup>, 2020, 12:00 PM – 1:00 PM

[Register Now](#)

#### Abstract:

Dual frac is a novel idea to obtain significant pumping efficiency by pumping into two wells simultaneously with one frac crew. This method requires a significant amount of planning to align all the field services precisely and be prepared for any sub-surface pressure reactions that may require real-time job design changes. The stimulation job design, perforation schemes, on-site service providers, pumping equipment, and monitoring were planned and optimized to ensure safe and effective stimulation treatment. In this presentation, the step by step demonstration of the planned activities such as health and safety factors, the method of execution, reasons for Non-productive time, and the operational gains made when comparing a zipper frac vs dual frac operation are explained.

#### Biography:



Chris Caplis is the Completions Manager for Sundance Energy. He has more than 20 years of drilling & completion experience in the energy industry. He started off as a Drilling engineer and has held several senior-level positions. He was the Drilling Manager for Crowheart Energy before moving to Sundance Energy to manage their completions program. He has served in this role for over a year. He has a keen interest in advancing well stimulation and completion practices in the Eagleford shale with a science-based approach to understanding the subsurface in conjunction with data analytics. Most recently, he was the first to successfully implement the dual frac approach in the Eagleford shale. Chris has a degree in Petroleum Engineering from Louisiana Tech.

## SUMMER SOCIAL

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📍 Virtual Zoom Meeting

September 9, 2020 | 4:30 - 6:00 PM

**Register Now**

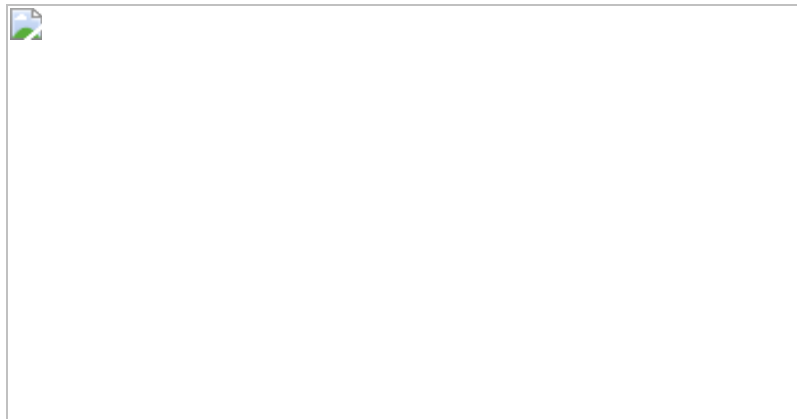
*Grab your favorite summer beverage, and let's kick off the new SPE term by gathering virtually! During the Virtual Summer Social! Celebrate this year's regional award winners, honor 25+ year members, and reconnect with your SPE colleagues. This event will include networking opportunities through breakout rooms. Please consider purchasing a ticket to help us raise money for scholarships.*



## 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 Coliseum**

**Date:** September 22<sup>nd</sup>, 2020

**Time:** 6:30 am – 8:30am

**Location:** Denver Coliseum | 4600 Humboldt Street, Denver, CO

80216

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

**Register Now**

***SPE Supports our Next Generation*****Date:** Fall Academic Semester 2020**Time:** Flexible**Location:** Remote, or in-person at your place of work

Limit: unlimited volunteers

Free

**Description:**

Legacy High School in Broomfield offers enrolled select Junior and Senior Students a unique opportunity: To participate in a job-shadowing / career practicum experience. Participating high school students must devote between 20 and 40 hours of their own time to shadowing and learning from a volunteer professional.

Volunteers are needed to share their experiences with individual high school students, teach them about their company or field of work, show them what daily life is like at their job, and give them practical tasks or a small project. Upon completing the practicum, students will report on and present their findings to their teachers & classmates. Potential volunteer work environments include remote either telework or physically, in-person, at the workplace (at you and your employer's discretion).

**Please Contact Community Outreach Team-member, Hilary Moore, for more details! [hilary.moore@nblenergy.com](mailto:hilary.moore@nblenergy.com)**

**Register Now**

***SPE Supports Special Olympics at the Harvest Festival*****Date:** October 30<sup>th</sup>, 2020**Time:** 5:00 PM – 8:00 PM**Location:** Socially Distant Space TBA | TBA, Denver, CO

Limit: 10 volunteers

Free

**Description:**

Special Olympics of Colorado will be hosting a socially distanced Harvest Festival for their athletes this year on October 30th. The

fundraiser is to benefit intellectually disabled residents of Colorado. Come volunteer for Special Olympics with your SPE peers and bond with the community.

Volunteers will have the opportunity to register to decorate their cars and pass out candy to athletes during the car parade. We are also in need of assistance with setup and running games that athletes can participate in from their cars. Volunteers will know they invested their time to make a valued contribution to the community. An added benefit is that this will help SPE build bridges between our industry and our Colorado communities. Register with SPE using the email below. We will then register SPE volunteers with Special Olympics as a group.

**Please Contact Community Outreach Team-member, Katrina Baer, for more details! [kbaer@calfrac.com](mailto:kbaer@calfrac.com)**

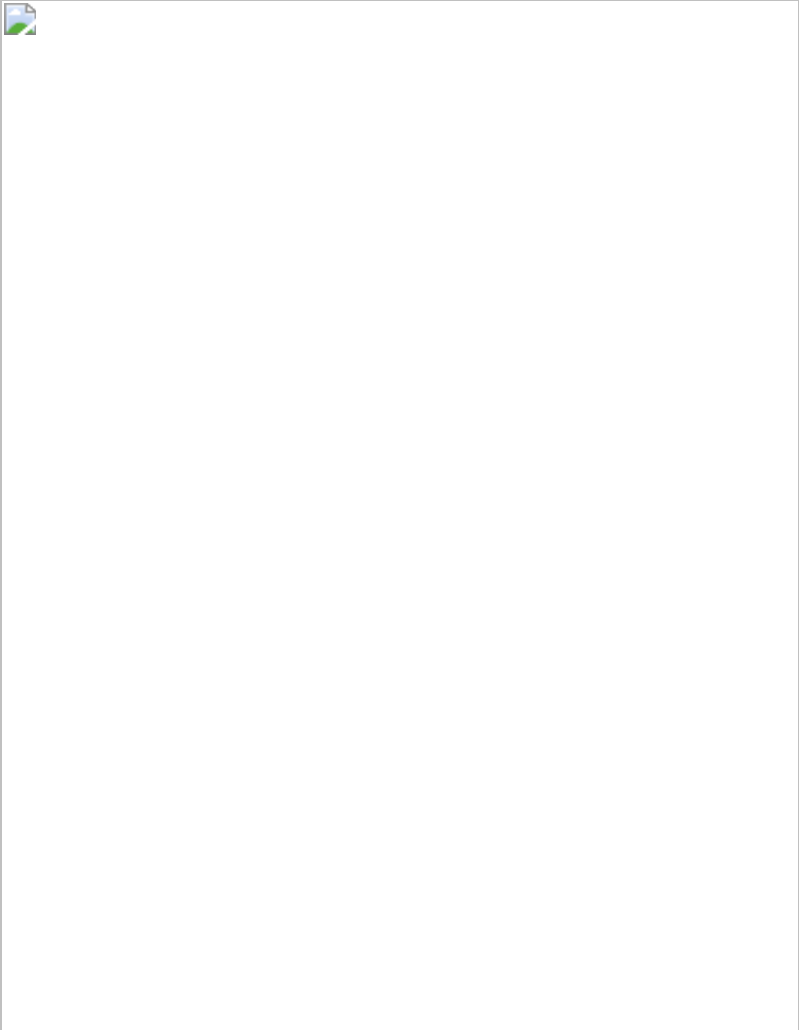
**Register Now**

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## JOINT EFFORT— SPE Denver Section and Rocky Mountain MiT

*Rocky Mountain Members in Transition (MiT) is a joint effort of members of SPE, AAPG, COGA, DLWS, RMAG, and WOGA in the Rocky Mountain region to help association members in the midst of a career transition.*

### **Upcoming Events:**



***Members in Transition Webinar Series with Francisco Blanch, Joshua Tracy, and Stephen Zaiss***

**Date:** September 3<sup>rd</sup>, 2020

**Time:** 12:00 pm – 1:00 pm

**Location:** Zoom Webinar

Free

**Description:**

MiT proudly announces an upcoming workshop, with Francisco Blanch (Managing Director and Research Group Head of Global Commodities at Bank of America), Joshua Tracey (Financial Adviser at Merrill Lynch), and Stephen Zaiss (Portfolio Manager at Merrill Lynch) titled: "Tectonic Shifts: Navigating Changes in the Energy Sector." Register free online, here:

[\*\*Register Now\*\*](#)





***Members in Transition Webinar Series with Edith Wilson, Ph.D.***

**Date:** September 10<sup>th</sup>, 2020

**Time:** 12:00 pm – 1:00 pm

**Location:** Zoom Webinar

Free

**Description:**

MiT proudly announces an upcoming workshop, with Edith Wilson, Ph.D. titled: “It All Comes from the Ground: Opportunities in the Energy Transition.” Register free online, here:

[\*\*Register Now\*\*](#)

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***Members in Transition Webinar Series with a Panel of Earth Science Educators.***

**Date:** September 17<sup>th</sup>, 2020

**Time:** 4:00 pm – 5:30 pm

**Location:** Zoom Webinar

Free

**Description:**

MiT proudly announces an upcoming workshop, with a Panel of

Earth Science Educators titled: "What's Next? Transitioning to Teaching." Register free online and watch for more information coming soon, here:

[Register Now](#)

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**Society of Petroleum Engineers - Denver Section**

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

