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# SPE Denver Section

9 February 2024

**GENERAL MEETING - PLEASE NOTE NEW LOCATION!**

## Making More Informed Business Decisions Through Rate Transient Analysis in Unconventionals

**Location - NEW VENUE**

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

**Date**

- Wednesday, October 25th, 2023
  - 11:30 AM – 1:00 PM

**Speaker**

- John Thompson
  - President and Co-founder, SAGA Wisdom

**EARLY BIRD REGISTRATION  
CLOSES OCTOBER 23RD AT 12:00 PM  
EVENT IS EXPECTED TO SELL OUT  
REGISTER NOW**

**Session Overview**

The benefits of Rate Transient Analysis (RTA) for production forecasting and reservoir characterization are generally well understood. However, the utility for RTA beyond these common practices goes frequently unrecognized. By itself, RTA can be used to identify costly pitfalls with drilling decisions, rigorously normalize well and reservoir production attributes, and diagnose wells with uplift potential. As the cornerstone of an integrated reservoir study, RTA can further be applied to reduce reservoir description uncertainty, optimize well landing zone, and validate petrophysical properties derived from log analysis. In an era that has asset teams migrating from physics-based to data-driven development planning workflows, it is important to remember the value that well performance analysis and modeling techniques serve. This presentation will feature RTA solving several different objective functions. Illustrated through cases studies. Attendees to this talk will exit with a better understanding of how RTA can be used as a practical tool for well and reservoir evaluations, providing auditable insights with high return-on-investment.

**Sponsor:**



**Meet our Speaker**

**John Thompson** is the President and Co-Founder of SAGA Wisdom: a tech start-up focused on digitally transforming education for energy industry professionals. He has a bachelors degree in mining engineering from Queen's University and a masters degree in chemical engineering from the University of Calgary. Over the past 15 years, he is better known as a reservoir engineer and instructor of Rate Transient Analysis (RTA) specializing in unconventional reservoirs. He has analyzed production data from thousands of wells, spanning most major tight and ultra-tight plays in the U.S., Canada, and Argentina. He has authored or co-authored 20 SPE papers, primarily focused on production forecasting, stimulation effectiveness evaluation, well spacing and completions optimization and diagnosing untapped well performance potential. From 2017 to 2019 he was Chair of the SPE Reservoir Evaluation and Production Optimization Special Interest Group in Calgary and in 2019 he received the SPE Calgary Section Service Award and the Canadian Regional Service Award for his contributions to the society

Visit us at  
[denverspe.org](http://denverspe.org)



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- [Production Study Group - Technical Happy Hour](#)
- [Young Professionals Halloween Party](#)
- [Community Outreach - Energy4Me](#)
- [Community Outreach - SPE Cares](#)
- [Special Announcements](#)
- [Industry Event: Zoo Lights](#)



## PRODUCTION STUDY GROUP - TECHNICAL HAPPY HOUR

### Multi-Basin Case Study: Remediating Damage from Fracture Driven Interactions Utilizing a Rigless Chemical Process and a Bit More

#### Location

- In-person Meeting:
  - Ovintiv 40th Floor
    - 370 17th Street, Denver, CO 80202

#### Date

- Thursday, October 12th, 2023
  - 4:00 PM - 6:00 PM

#### Speaker

- Michael Lantz
  - Co-founder and CEO, Kairos Energy Services

REGISTRATION AVAILABLE UNTIL DAY OF EVENT

**REGISTER NOW**

#### Meet our Speaker

**Michael Lantz** is the co-founder and CEO of Kairos Energy Services. Lantz has over 15 years of experience in maximizing hydrocarbon recovery from conventional and unconventional reservoirs. This includes the design and application of EOR technologies, stimulation fluids, oilfield chemistry, and remedial processes. He holds a BSc in Chemical Engineering from the Colorado School of Mines and a MSc in Energy Management from the University of Colorado.

#### Study Group Overview

The development of US unconventional wells has reached the point where most new completions risk interactions with existing parent wells. FDI's between child and parent wells result in a wide variation of production impacts but in many cases, production can be negatively affected and cannot be solely attributed to stolen reserves from the child well. Numerous damage mechanisms are identified with the two most dominant mechanisms being capillary phase trapping and fracture conductivity damage from FR-iron gels.

Multiple surfactant-nanoparticles chemistry was studied to reduce capillary pressure across multiple unconventional basins. A new chemistry was developed that significantly reduced the required amount of citric acid to remediate FR-iron gel damage. The chemistry was integrated into a novel rigless process that utilizes a diversion process combined with a specific volumetric design methodology to improve fluid distribution along lateral and into the propped fracture network and fracture-matrix interface. Case studies across two different basins are described, yielding 2-10x increases in hydrocarbon production and paybacks in less than 4 months.

This process is being applied to wells that are underperforming as a restimulation technique and a case study from the DJ Basin and Anadarko Basin will be reviewed.



**YOUNG PROFESSIONALS HALLOWEEN PARTY**



**SPE YP & YPE HALLOWEEN PARTY**  
 October 26, 2023 | Holey Moley Golf Club Denver | 6 PM - 8 PM  
 Entry Fee: \$35  
 Price includes a game of mini golf, networking, drinks, food, and hours of fun!  
 Costumes strongly encouraged!




**Location**

- Holey Moley Golf Club Denver
  - 1201 18th Street, Denver, CO 80202

**Date**

- Thursday, October 26th, 2023
  - 6:00 PM - 8:00 PM

**Description**

For \$35/person, this frightfully fantastic takeover includes a game of mini golf, networking, delicious appetizers, drinks, and hours of fun! Costumes are strongly encouraged! If registering as an operator or student, you must register with your company or school email to verify registration. Please feel free to bring your friends or spouse, but all attendees must have a ticket.

**\*SPONSORSHIP OPPORTUNITIES ARE AVAILABLE\***

- Headline Sponsor \$2500
- Jack-o'-lantern Sponsor - \$500

We look forward to seeing you there for a casual and exciting SPE Halloween event!

- **Please get in touch with YP Chair [James DeBartolomeis](#) for more details!**





A graphic with a grey and blue background. On the left, it says "VOLUNTEERS NEEDED" in large blue letters, followed by "2023/2024 ENERGY4ME INITIATIVES" in smaller blue letters. Below this is a QR code. To the right of the QR code, the text "REGISTER HERE!" is written in yellow, with a yellow arrow pointing from the text to the QR code.

- Adventure Days
- Expose 4th/5th graders to different topics/disciplines through classroom presentations!
    - 10/23/23 8:30-10:45am, Newlon Elementary
    - 10/26/23 12:30-3:00pm, Munroe Elementary
    - 11/13/23 12:30-3:00pm, Newlon Elementary
- American Physical Society Division of Plasma Physics Student Expo
- Showcase interactive demos to students/teachers regarding physical science concepts related to oil and gas
    - 11/2/23 8:30am-3:00pm, Colorado Convention Center
- Contact [tannehilljulie@gmail.com](mailto:tannehilljulie@gmail.com) for more info!



**Bring Energy in to the Classroom!**

Energy4me promotes fact-based education to help demystify the industry. It is designed to promote an energy conscious and educated society, and create interest in science, technology, engineering and math (STEM) careers. Energy education is not a topic that is widely taught in school systems globally. By making this curriculum available to teachers for use in their classroom, energy4me can reach thousands of students every year.

- Please get in touch with community outreach chair **Julie Tannehill** for more details!

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





## 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, October 17th, 2023.
  - 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.





**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!**

	10 Yearly Sponsor \$2500	500 \$750	250 \$450
<b>General Meetings (GM) held Monthly</b>			
8 available GMs within the year cycle	*	*	*
<b>GM Sponsorship Opportunities*</b>			
Exclusive sponsor of the entire yearly program	*		
Exclusive sponsor for single general meeting		*	
Sponsor of a single general meeting (non-exclusive)			*
<b>Benefits</b>			
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!





### SPECIAL ANNOUNCEMENTS



## BOARD MEMBERS 2023-24



**PHILIP OUELLETTE**  
*Section Chair*



**DAVIS SCOTT**  
*Past Chairperson*



**BEN NATHAN**  
*Treasurer / Chair Elect*



**CLAUDIO RAMOS**  
*Treasurer Elect*



**ALEJANDRO LERZA**  
*Program Chair*



**KATRINA BAER**  
*Secretary/Publicity Chair*



**DAN ALLISON**  
*Membership Chair*



**JULIE TANNEHILL**  
*Outreach Chair*



**JOHN ARSENAULT**  
*Director*



**TUBA FIRINCIOGLU**  
*Director*



**JAMES DEBARTOLOMEIS**  
*VP Chair*



# Help us help you!

Click here to fill out our 2023/2024  
Membership Survey!





**SPECIAL ANNOUNCEMENTS**

**RENEW YOUR MEMBERSHIP**

*Membership renewal for 2024 will begin starting in September.*

**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/](http://www.spe.org/en/join/renew/)








INDUSTRY EVENTS

*RMPC & GPA Present*  
**Zoo Lights**  
*Exclusive Preview*  
**Title Sponsor:**  
  
**EXERO**  
**Partnering Organizations:**  
   
   
 Thursday November 9th, 2023  
 5:30 PM - 9:30 PM  
 Denver Zoo  
 2300 Steele Street  
 Denver, CO 80205

- Buy Tickets Here!**
- Member (1 Ticket) = \$45
  - Member (2 Tickets) = \$75
  - Member (4 Tickets) = \$150
  - 10 Pack Tickets = \$350
  - Non-member (1 Ticket) = \$60



Society of Petroleum Engineers - Denver Section

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