

SOCIETY OF PETROLEUM ENGINEERS

Wyoming Petroleum Section
Marron Bingle-Davis, Secretary
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Section Website for Latest News:
<http://wyoming.spe.org/>

2022-2023 Wyoming Petroleum Section					
Section Chairman	Dave Chase	BLM	261-7685	dchase@blm.gov	
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Continuing Education	Vacant				
Membership Chair	Sabrina Hamner	WOGCC	234-7147	sabrina.hamner@wyo.gov	

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The Nicholas Family



UPCOMING AREA MEETINGS

WYOMING GEOLOGICAL ASSOCIATION & SPE –In-person meetings will vary on location, please see talk description for information. Lunch Buffet served from 11:15 to 12:00 unless otherwise noted. Contact the WGA office at 237-0027 or wygeology@gmail.com for more information or to RSVP. **Reservations are mandatory and are due Wednesdays by 12 PM for that week's talk.**

September 8, 2023: Mollie Pope – University of Wyoming – *Accessory mineral geochemistry studies at the University of Wyoming*

September 15, 2023 (SPE): KC Oren – GeoStar Energy Partners – *Frac, EOR and CCUS Tracer Applications During an Oil and Gas Asset's Lifecycle*

September 22, 2023 (SPE): Steven Schnell – The Science Zone – *Looking ahead with The Science Zone*

UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION

Sept 15, 2023 - KC Oren – GeoStar Energy Partners – Frac, EOR and CCUS Tracer Applications During an Oil and Gas Asset's Lifecycle

Sept 22, 2023 - Steven Schnell – The Science Zone – Looking ahead with The Science Zone

Oct 27, 2023 – TBA





Society of Petroleum Engineers



Wyoming Petroleum Section September 2023 Newsletter

<http://wyoming.spe.org/>



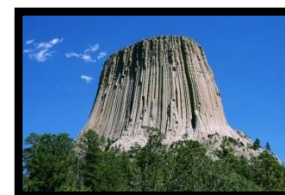
When: **September 15, 2023**

Where: Occasions by Cory

Time: 12:00 PM

RSVP at

wygeology@gmail.com



Event: **KC Oren – GeoStar Energy Partners – Frac, EOR and CCUS Tracer Applications During an Oil and Gas Asset's Lifecycle**

Abstract:

The presentation will review developments over the past 20 years that have changed our industry's approach to drilling and completions as innovations in liquid chemical tracer technology continues to deliver improved efficiencies and lower production costs. Many of these improvements have been enabled through a measured and detailed understanding of the resource being exploited, the chemistry and geology involved to adapt and adjust towards enhancing a reservoir's performance over the course of the asset's life. These same technologies can be used in enhanced oil recovery, CCUS (Carbon Capture, Utilization & Storage) and now, CCS (CO₂ Storage) applications, as well.

The use of EOR techniques in existing fields has proven to be an essential tool for extending the life of an asset and improving the economics of known reserves. From a project's initial concept, pilot study, and the use of fluids, gases, and chemistry in mature assets, EOR project evaluations are necessary to understand the flow paths and efficiencies of secondary and tertiary recovery efforts. Referencing case studies, KC Oren, Strategic Technologies Advisor at GeoStar Energy Partners, will provide examples on how chemical tracers can be utilized to quickly help answer the questions for remaining oil, CO₂ and other gases injection benefits, polymers applications and water flood projects. These examples have enabled operations teams to make informed changes and increase production for a quick ROI and an extended asset life for greater ultimate recovery.

Through selected case studies, Oren will explore multiple tracer options used to understand and then improve hydrocarbon recovery. These examples will show how tracers can be used for quantifying the distribution and flow paths of the EOR projects using the injection of water and/or gas assisting reservoir model refinements and guiding operational changes to provide immediate, very tangible return on water flood investments.

The presentation finishes up with discussions for the application of chemical tracers in CO₂ injection projects for CCS (Carbon Capture & Storage) and other disposal/storage applications in old fields and other suitable reservoirs.



Biography:

KC Oren has over 40 years of experience in the oil and gas industry with Bachelor degrees in Chemistry ('77) and Mathematics ('79) from Michigan State University, and MBA studies (certificate) from Mays Business School at Texas A&M (College Station). He has held many different positions during his career from developing innovative directional drilling software using Fortran programming language, to leading D&C software development teams globally before pivoting to the geosciences mid-career. While traveling globally and living abroad (Asia Pacific), KC has worked with many cultures to advance leading drilling, geological, petrophysical and geophysical services and applications for Halliburton (3X), Schlumberger (Smith Bits), Baker (Teleco), GeoGraphix, and Horizontal Solutions.

Most recently, KC has blended his early career and D&C background with the geosciences by providing interdisciplinary support to the industry. His industry-sponsored tours have featured his storytelling of the virtues of "Drilling the Perfect Horizontal Well" while assisting operating companies that are looking for new and edgy, emerging technologies for use in their own projects.

Oren's most recent foray is in helping the oil and gas industry leverage existing technologies and expertise now for CCUS/CCS applications, primarily for Class VI permitting, project monitoring (MRV) requirements and meeting the rigors of environmental compliance for qualifying IRA tax credits.



When: **September 22, 2023**

Where: Occasions by Cory

Time: 12:00 PM

RSVP at

wygeology@gmail.com



Event: Steven Schnell – The Science Zone – Looking ahead with The Science Zone

Abstract:

For over 20 years the Science Zone has been bringing informal STEAM Education to Central Wyoming and Beyond. Through interactive museum exhibits, classes, and immersive summer camp programs we've engaged many minds with the wonders of Science!

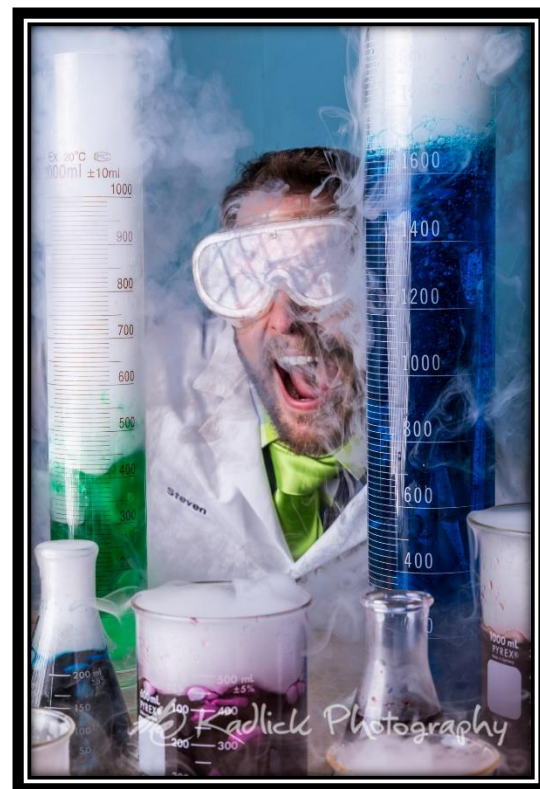
As the need for critical thinkers is ever growing, the Science Zone is looking toward the next iteration of its existence and harnessing place-based education opportunities from across our state to fuel the next generation of thinkers.

Biography:

Steven Schnell holds a Bachelor of Science in Business Administration and Information Systems from the University of Nevada, Reno.

His vision for the future of The Science Zone is to enable kids to develop a strong interest in and passion for the sciences and the natural world.

Steven is an avid mountain biker, climber, snowboarder, backpacker, kayaker and enjoys being outdoors as much as possible enjoying everything from trekking in Patagonia, Chile to cycling to Yellowstone. Steven earned his Eagle Scout in 2002, and has volunteered at the Montessori School of Casper, and the Fat Fish Mountain Biking Club.





CALENDAR OF EVENTS and NEWS WYOMING PETROLEUM SECTION



Due to our excellent participation in past continuing education events, we will continue to offer these as they become available. Our web address is <http://wyoming.spe.org>

The SPE Wyoming Petroleum Section has sent out letters requesting scholarship sponsors for the 2023 year. Please consider helping out these deserving students in their academic pursuits. Scholarships will be awarded in the Spring of 2023. If you need further information please contact Sabrina Hamner at: sabrina.hamner@wyo.gov



CONGRATULATIONS TO ALL 2023 SCHOLARSHIP AWARDEES!!

\$8,000 in Total Awarded!!

Nassima Bettir
Tatiana Lubashkina
Rami Alloush
Ryan Jardee
Saba Sadiq
Paden Knull
Mohammad Alfehaid
Zebulon Stephs
Geneva Loff
Brady Weber

GOOD LUCK IN ALL YOUR FUTURE ENDEAVORS!

UPCOMING OPPORTUNITIES



FANTOM of the MUSEUM

A Fundraiser for Fans of the Tate Geological Museum

Friday, October 6, 2023

Social hour — 6 p.m.
Dinner — 6:30 p.m.
Live auction — 7:30 p.m.

*Hilton Garden Inn
1150 N. Poplar St.
Casper, Wyoming*

Please RSVP before Tuesday, Oct. 3, 2023, by
calling 307-268-3026.

TICKETS: \$150 for two people or
\$800 for a table of eight
*Tables include wine samples
and mineral specimens.*



Casper College



American Petroleum Institute
Central Wyoming Chapter

**THANK YOU TO OUR EVENT
SPONSORS**



API Fall Meeting & Happy Hour

Enjoy drinks, appetizers, and renew
your API membership

**THURSDAY, SEPT 28TH
5:00 - 8:00 PM**

@ the upstairs of Rib & Chop House
Drink tickets provided with membership sign up

