

## SOCIETY OF PETROLEUM ENGINEERS

Wyoming Petroleum Section  
Marron Bingle-Davis, Secretary  
P.O. Box 2154  
Casper, WY 82602-2154



Section Website for Latest News:  
<http://wyoming.spe.org/>

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# UPCOMING AREA MEETINGS

**WYOMING GEOLOGICAL ASSOCIATION & SPE** – In-person meetings will now be held at **Various Locations (please pay attention to each individual meeting)**. Lunch Buffet served from 11:15 to 12:00 unless otherwise noted. Contact the WGA office at 237-0027 or [wygeology@gmail.com](mailto:wygeology@gmail.com) for more information or to RSVP. **Reservations are mandatory and are due Tuesdays by 12 PM for that week.**

**May 9, 2025 (19<sup>th</sup> Hole):** Mark Milliken – Triangle G, LLC – *Salt Creek Revisited*

**May 30, 2025 (19<sup>th</sup> Hole) (SPE):** Tim Fischer – UW School of Energy Resources – *The full value chain sweet spot in the Mowry Shale: A cross-disciplinary research initiative at the University of Wyoming*



June 13, 2025 – 14<sup>th</sup> Annual Gene R. George  
Memorial Golf Tournament!!



## **UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION**

**May 30, 2025– @ 19<sup>th</sup> Hole – Tim Fischer – UW School of Energy Resources – The full value chain sweet spot in the Mowry Shale: A cross-disciplinary research initiative at the University of Wyoming**





Society of Petroleum Engineers



## Wyoming Petroleum Section May 2025 Newsletter <http://wyoming.spe.org/>



When: **May 30, 2025**

Where: **19<sup>th</sup> Hole**

Time: Luncheon 11:15 AM; Talk 12:00 PM

RSVP at

[wygeology@gmail.com](mailto:wygeology@gmail.com)

**\*Cost now \$25\***

### Event:

**Tim Fischer – Oil and Gas Program Manager, Center for Economic Geology Research in the School of Energy Resources, University of Wyoming – The full value chain sweet spot in the Mowry Shale: A cross-disciplinary research initiative at the University of Wyoming**



### Abstract:

The School of Energy Resources (SER) at the University of Wyoming (UW) is focused on the advancement of energy-driven economic development for the state of Wyoming. As part of that mission, SER leads UW talent and resources for interdisciplinary research and outreach in many facets of the energy industry. Through its Centers of Excellence, SER seeks to bridge the gap between industry and academia and ensure deployment of technology and policy solutions across the energy spectrum. An example of this research is an SER-led initiative on the Mowry Shale Petroleum System in the Powder River Basin, the vast potential of which remains relatively unexploited. This is due to several challenges that include, among other things, the depth of the formation, geomechanical complexity affecting drilling and stimulation, and the lack of Mowry-specific economic models for forecasting. To assist industry partners in Wyoming in unlocking the value of this resource SER initiated this research in 2023, through a state-funded program that consists of thirteen research projects with more than 35 faculty, research scientists, and graduate students who are building broad expertise by working across six departments.



This presentation will summarize the research results to date in four key areas that encompass a large part of the value chain for oil and gas production and economic development: Reservoir Characterization and Definition (RCD), Drilling and Completions (D&C), Production and Fluid Flow (PFF), and Economics and Forecasting (E&F).

The RCD group has developed laboratory and petrophysical tools to better characterize the formation and increase the sparse dataset using machine learning and artificial intelligence (ML-AI) tools. In D&C, we are testing drilling fluid compatibility with Mowry bentonites, while modeling and testing the interfaces between bentonites and the shale



reservoir rock. The PFF group focuses on measuring permeability changes during drawdown and uses nuclear magnetic resonance (NMR) to test models of pore and fracture networks to optimize fluid flow. The E&F team has developed novel forecasting economic models and decline curve analyses specific to Mowry production potential. We aspire to build a “sweet spot” definition of the Mowry shale that contains not just geological opportunity, but identifies where that combines with drilling, completions, production, and economics to ensure success for the Wyoming oil and gas industry. The next crucial step in the program is to begin closer engagements with industry partners to confirm we are working on appropriately applied problems that can deliver both short- and long-term benefits to Wyoming’s energy industry.

### **Biography:**

Dr. Fischer recently joined the Center for Economic Development in the School of Energy Resources as the Oil & Gas Program Manager after a 12-year career at Chevron in Houston, TX. As a member of the Chevron Technology Center, he worked as a senior research scientist and petrophysicist with a focus on core-to-log integration and the petrophysics of unconventional reservoirs. He has studied and analyzed rocks and logs from unconventional plays worldwide and led major research projects on pore structure characterization and how variability in rock properties alters wireline log responses.

Prior to joining Chevron, he worked at Miami University on electron microscopy of clay-bacteria interactions, a continuation of his graduate work at Penn State on the crystallographic evolution of oxide minerals in near-surface environments. He also conducted undergraduate research at the University of Arizona on the carbon isotope disequilibrium in cave air and soils.





## 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 for sponsors for 2025 scholarships soon. Please consider donating to help support students. If you need further information please contact Johnathon True at: [johnathon.true@exxonmobil.com](mailto:johnathon.true@exxonmobil.com)



## **We have moved venues!!**

Meetings will be held at various locations. Please keep an eye out for changing venues. Let SPE know if you need any help or have any questions regarding meetings.

Luncheon Cost is \$25



## UPCOMING OPPORTUNITIES



### 14<sup>th</sup> Annual Gene R. George Memorial Golf Tournament

Friday, June 13, 2025

8:00 a.m. Shotgun Start

Three Crowns Golf Club

Casper, Wyoming



#### Sponsorship Types

- \_\_\_\_\_ Hole Sponsor - \$350
  - *Sign at hole (max 2 sponsors/hole)*
- \_\_\_\_\_ Pin Prize - \$300
  - *Sign at pin (max 1 sponsor/hole, covers prizes for longest drive, etc.)*
- \_\_\_\_\_ Driving Range - \$250 (*sign at driving range*)
- \_\_\_\_\_ Breakfast Sponsor - \$750 (*signs at hole x 2, & driving range x 1 - \$950 value*)
- \_\_\_\_\_ Lunch Sponsor - \$1500 (*signs at hole x 4 & driving range x 1 - \$1650 value*)
- \_\_\_\_\_ General Support - \$ \_\_\_\_\_ (*covers drink tickets, door prizes, etc.*)
- \_\_\_\_\_ Additional Donation to Scholarships \$ \_\_\_\_\_
  - *(a direct donation to scholarships in addition to your sponsorship)*
- \_\_\_\_\_ Gear with your logo to be distributed to golfers (~60-80 golfers)
  - *(items such as sleeves of golf balls, hats, visors, etc.)*

All sponsors will be recognized through signage and announcements during the tournament.

All proceeds go directly to SME, SPE, and WGA scholarships to support our future scientists!

Company Name \_\_\_\_\_

(please send high resolution logo to [genegeorge.golf@gmail.com](mailto:genegeorge.golf@gmail.com))

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Sponsor online here: <https://wyogeo.org/golf>

Use this form to mail checks (payable to WGA)

Contact the WGA office at 307.237.0027 with any questions.

Dayton Lewis can be reached at 307.267.6828

Sponsorships



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Please email completed forms to [genegeorge.golf@gmail.com](mailto:genegeorge.golf@gmail.com) or  
snail mail completed forms to the WGA, P.O. Box 545, Casper, WY 82602







# 14<sup>th</sup> Annual Gene R. George Memorial Golf Tournament

Friday, June 13, 2025  
8:00 a.m. Shotgun Start  
Three Crowns Golf Club  
Casper, Wyoming



## Tournament Format

- Check-in begins at 6:00 a.m., shotgun start at 8:00 a.m.
- 4-man team scramble, individual registrations welcome\*
- Scores will be adjusted for handicap
- "To go" breakfast served during check-in
- Buffet lunch, award ceremony and live auction after golf

*\*In an effort to accommodate those without a team, we will gladly accept individual registrations and place you on a team.*

Registrations & Sponsorships



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Discounted Hotel Accommodations



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## Tournament Costs/Extras

Early Bird Entry Fee (before 06/02/2025)	Full Price Entry Fee (after 06/02/2025)
\$112 per person	\$125 per person

- Team mulligans and "throws" (throw the ball) available for purchase at registration or when registering a team online.
  - \$10/mulligan, \$10/throw. Max 4 mulligans/team & 2 throws/team.
- Hole prizes (longest drive, longest putt, etc.), raffle prizes and live auction
- The infamous Rock Hammer putter – all players must use this on #18.
- Register online here: <https://wyogeo.org/golf>
- Use this form to mail checks (payable to WGA)
- Contact the WGA office at 307.237.0027 with any questions.
- Dayton Lewis can be reached at 307.267.6828
- All proceeds go directly to SME, SPE and WGA scholarships to support our future geoscientists!

Team Name\*\*:

\*\*If you are signing up as an individual, please write "Individual" as Team Name.

Player 1: \_\_\_\_\_ Handicap: \_\_\_\_\_  
 Player 2: \_\_\_\_\_ Handicap: \_\_\_\_\_  
 Player 3: \_\_\_\_\_ Handicap: \_\_\_\_\_  
 Player 4: \_\_\_\_\_ Handicap: \_\_\_\_\_

All entries due by 5:00 p.m., June 12, 2025.

Please email completed forms to [genegeorge.golf@gmail.com](mailto:genegeorge.golf@gmail.com) or  
 snail mail completed forms to the WGA, P.O. Box 545, Casper, WY 82602.

