

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/>

2018-2019 Wyoming Petroleum Section				
Section Chairman	Dave Chase	BLM	261-7685	dchase@blm.gov
Treasurer	Julie Cruse	Scientific Drilling	472-6621	julie.cruse@scientificdrilling.com
Scholarship Chair	Luke Opitz	Moser Energy Systems	234-7833	luke@moseres.com
Program Chairman	Paul Bonifas	Goolsby, Finley, & Assoc.	266-3199	paul@goolsbyfinley.com
Secretary	Marron Bingle-Davis	Sunshine Valley Petroleum	233-8737	marron@sunshinevalleypetroleum.com
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Membership Chair	Sabrina Hamner	WOGCC	234-7147	sabrina.hamner@wyo.gov

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UPCOMING AREA MEETINGS

WYOMING GEOLOGICAL ASSOCIATION – All meetings at the True Rivercross Commons (see Calendar Page). Lunch Buffet served from 11:15 to 12:00 at a cost of \$20.00. Contact the WGA office at 237-0027 for more information or to make reservations.

September 6, 2019: Dr. Ali Jaffri – Applied Stratigraphix – *Virtual Field Trip to the Persian Gulf: Importing Lessons for the Minnelusa and Bakken*

September 13, 2019: Eric Salveggio – Casper College – *The Fourth Industrial Revolution: New and Not So New Security Concerns*

September 20, 2019: No Meeting – AAPG RMS 2019 Annual Meeting in Cheyenne

September 23 (Monday), 2019: SPE – Morteza Sayarpour – Chevron - Field Applications of Capacitance-Resistance Models in Waterfloods: A Decade Review

UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION

September SPE Meeting: Morteza Sayarpour – Chevron - Field Applications of Capacitance-Resistance Models in Waterfloods: A Decade Review

October SPE Meeting: Dante Caravaggio - PJ SOLOMON - TBA





Society of Petroleum Engineers

Wyoming Petroleum Section September 2019 Newsletter

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



When: September 23, 2019
Where: True Rivercross Commons
Time: 11:15 AM (\$20.00 for buffet lunch)

RSVPs are now mandatory for attendance and to streamline this process, please notify Brianna at the WGA office at 237-0027 or vygeology@gmail.com by Friday, September 20, 2019 if you plan to attend.



Event: **Morteza Sayarpour – Chevron - Field Applications of Capacitance-Resistance Models in Waterfloods: A Decade Review**

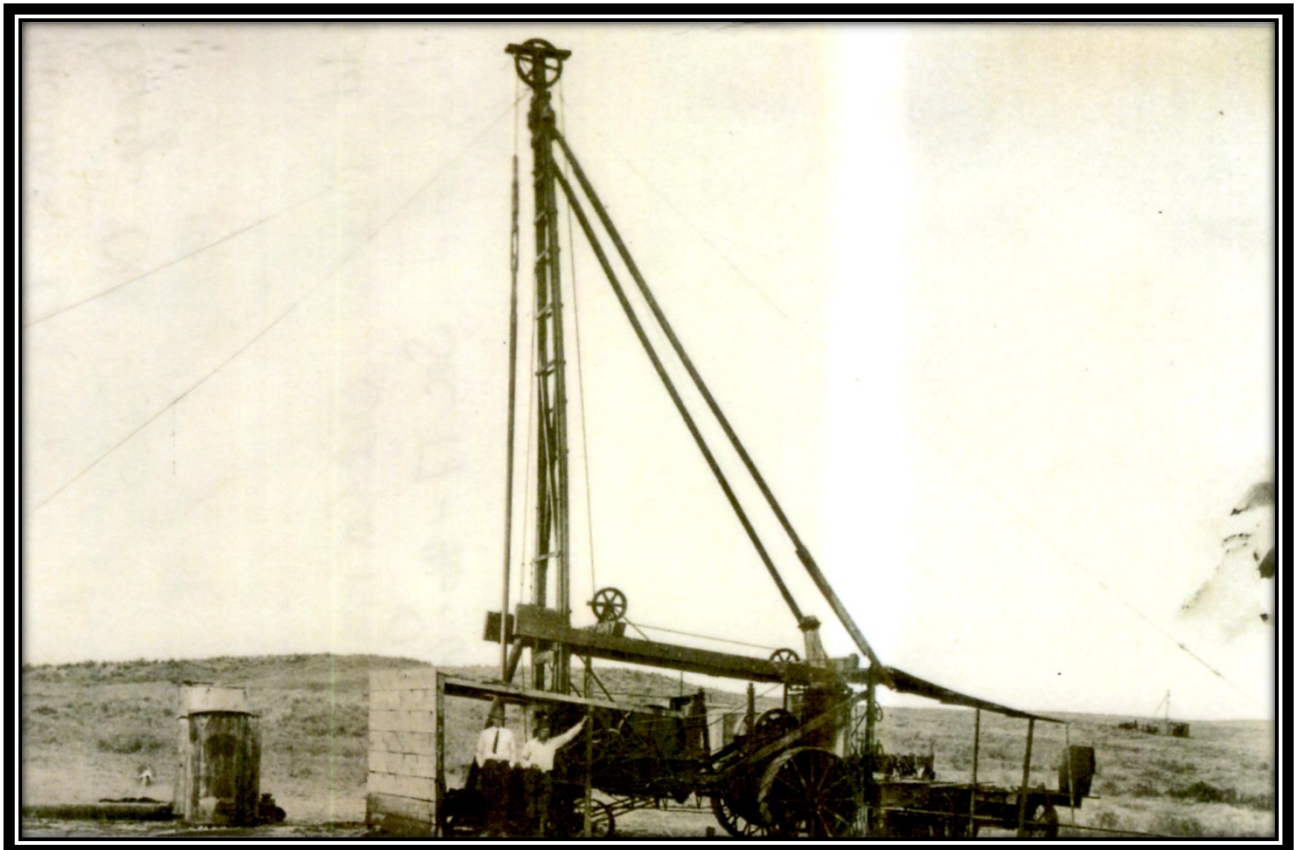
Abstract:

Application of fast, simple and yet powerful analytic tools, capacitance-resistance models (CRMs), are demonstrated with multiple field examples over last decade. Most waterfloods lend themselves to this treatment. This method which is developed but not limited to waterfloods is ideally suited for engineers who manage daily flood performance. Field cases are selected to demonstrate CRMs capabilities in different settings: a tank representation of a field, its ability to determine connectivity between the producers and injectors, and understanding flood efficiencies and optimization for the entire or a portion of a field. Significant insights about the flood performance over a short period is gained analytically by quantifying value of injection and impact on oil production by estimating fractions of injected fluid being directed from any injector to various producers and the time taken for an injection signal to reach a producer. Injector-to-producer connectivities are inferred directly during the course of error minimization and optimization is followed to maximize recovery. Because the method circumvents geologic modeling and saturation matching, it lends itself to frequent usage without intervention of expert modelers, fields with hundreds wells can quickly be modeled and optimized with upside potential of 5-15% incremental recovery.



Biography:

Morteza Sayarpour works for Chevron as waterflood advisor in Angola. He holds PhD in reservoir engineering from University of Texas at Austin in the USA, M.S and B.S in mining engineering-exploration from University of Tehran in Iran. He has worked over 18 years in petroleum engineering and engineering geology fields combined supporting waterflood and water/gas injection optimization of over 40 assets in USA, Kazakhstan, Australia, Angola, Nigeria, North Sea and Indonesia. His technical skills are in reservoir and production engineering, waterflood surveillance, performance evaluation and optimization, improved oil recovery, conformance control with background work in mining engineering, engineering geology and geotechnique. He has routinely developed and conducted reservoir engineering and cross-functional trainings over last decade, he has industrialized multiple applications focusing on waterflood and sweep optimization – several papers and patents are published under his name.





CALENDAR OF EVENTS and NEWS WYOMING PETROLEUM SECTION

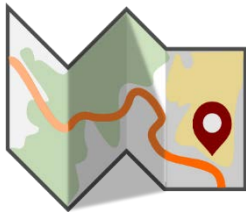


Due to our excellent participation in past continuing education events, we will continue to offer these as they become available. Our web address is <http://wyoming.spe.org>

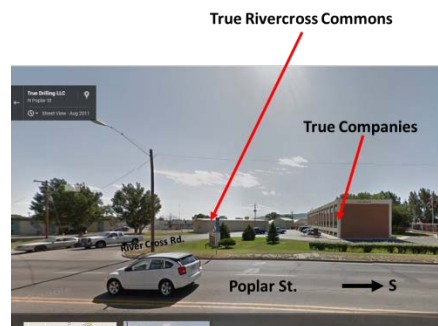
The SPE Wyoming Petroleum Section has sent out letters requesting scholarship sponsors for the 2019 year. Please consider helping out these deserving students in their academic pursuits. Scholarships will be awarded in the Spring of 2019. If you need further information please contact Sabrina Hamner at: sabrina.hamner@wyo.gov



We appreciate your patience as we move meeting locations, which will now be held at the True River Cross Commons



TRUE RIVER CROSS COMMONS
465 N POPLAR ST
CASPER, WY 82601



UPCOMING OPPORTUNITIES



**AAPG ROCKY MOUNTAIN SECTION
ANNUAL MEETING**

**LITTLE AMERICA CONVENTION CENTER
CHEYENNE, WYOMING
SEPTEMBER 15-18, 2019**

Hosted by the Wyoming Geological Association

Website: <https://rmsaapg2019.com/>



****Members - Please Phone in Reservations for Meetings ****
Brianna MaFarland with WGA is taking phone reservations for meetings at 307-237-0027 or wygeology@gmail.com. RSVP is now mandatory for attendance so please take a little extra time and call or email so that an accurate headcount can be given to the venue for their meal preparation. This also helps us to get scheduled into a meeting room that is adequately sized for our meetings. Your help in this matter is greatly appreciated.