Issue 367
November 2018

SJV SPE News
San Joaquin Valley Section
Society of Petroleum Engineers

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Visit the SJV.SPE website or Facebook page:
http://connect.spe.org/SJV/
Thanks to Reza, past Chair for his service over the years to the local SJV SPE Section! Sorry to see him go but wish him the best in his new job. As I step into this position as Chair of SJV SPE (while continuing to serve as GSM Chair), I went down memory lane. I want to give special thanks for the past chairs of SJV SPE. See pictures below of the past chairs of SJV SPE Board. It has been great to see their leadership styles and wonderful contributions over the years.

Also, I want to give a shout out to two SJV SPE members, Behrooz Fattahi, Aera (retired) and Joyce Holtzclaw, E&B, who received the Honorary Member Awards this year at the 2018 Annual Technical Conference & Exhibition (ATCE). Honorary doesn’t mean “finished.” Joyce is still serving SPE (on two committees and on two others and advising WRM). Years ago, Behrooz encouraged me to serve in SPE. I appreciate that!

On another point - it is great to see local members on local fields get published in JPT – check out the article in October JPT, p. 48 on work done in Lost Hills highlighting work by T.H. Kim, D.J. Crane, and E.F. Grijalva, Chevron. This is one of the great benefits of membership in SPE – exchange of technical information!

Look forward to this month’s GSM meeting on Thursday, November 8th, Cenk Temizel, Aera Energy, on “Optimization of Well Placement in Waterfloods under Geologic Uncertainty.”

As we approach Thanksgiving holiday, I would like to say that we live in a blessed country! We work in a wonderful O&G industry (albeit misunderstood) that extracts a crude product (hydrocarbons) to be converted to essential products that helps many people live longer, comfortably, more productive, better than kings and queens did hundreds of years ago! This is breathtaking. Years ago, I did a wilderness survival trip. That was an absolutely miserable experience for me. After going through that, I really prefer and appreciate having crude oil products – clothes, food, warm shelter, cars, and running water. I’m most thankful for my faith, family, and friends. Have a great Thanksgiving!!!
San Joaquin Valley SPE Section General Section Mtg

Optimization of Well Placement in Waterfloods under Geological Uncertainty

(SPE 191660 - SPE ATCE 2018 – Dallas, TX - Sep 25, 2018)

Thursday, November 8, 2018 @ 11:30 AM

Petroleum Club 12th Floor – 5060 California Avenue, Bakersfield

Link to Download to Your Calendar

Speaker: Cenk Temizel, Reservoir Engineer, Aera Energy

Reservations: RSVP by November 6th to avoid walk-in payments

Pay Online: Online Payment Link

Or Email Tom Hampton at thampton@sentinelpeakresources.com

Abstract

Optimum well placement in intelligent fields, using previously developed optimal control methods to maximize net present value (NPV), is becoming practical with recent advances in technologies as well as their applications in the petroleum industry. To efficiently use these methods in an intelligent field, an assessment of its economic aspects and its performance, especially in reservoirs with high degree of heterogeneity or uncertainty, is crucial. By using such methods, fields can be developed better. The process could be used as a reliable tool for improving the decision-making process.

There are multiple optimization techniques used in the industry for optimizing well placement (e.g. direct and gradient optimization). With the use of a reservoir simulation model, this study aims to provide a comparative performance analysis of certain optimization techniques. To make the evaluation stronger and more applicable to a realistic case, the model selected for this study has a high degree of geological uncertainty and constraints for computation time, infrastructure and complexity to decide on optimal well placements. This will lead to more robust decisions in reservoir management. Identification of the right strategy helps in optimizing larger scale, million-cell model simulations enabling practical implementation of reservoir simulation coupled with optimization.

Optimum well placement in complex reservoirs requires a complete grasp of optimization methods, key factors and constraints but most importantly the understanding of the effect of geological uncertainty. This study illustrates the optimization practices by outlining the significant components in the process illustrated on a benchmark model.

Biography

Cenk Temizel is a reservoir engineer at Aera Energy LLC in Bakersfield, California, USA since 2013. He has 12 years of experience in the industry working on reservoir simulation, smart fields, heavy oil, optimization, geomechanics, field development, EOR with Schlumberger and Halliburton in the Middle East, the US and the UK. He holds a BS degree (Honors) from Middle East Technical University – Ankara (2003) and an MS degree (2005) from University of Southern California (USC), Los Angeles, CA both in petroleum engineering. He was a teaching/research assistant at USC and Stanford University (Heavy Oil Group) before joining the industry. He received Halliburton Innovation Award in 2012 along with US patents and publications in the area of reservoir management, EOR and smart field workflows and 2nd place at SPE Global R&D Competition at SPE ATCE 2014 in Amsterdam. He serves as a technical reviewer for journals. His interests include reaction kinetics/dynamics of fluid flow in porous media and enhanced oil recovery processes.

E-mail: ctemizel@aeraenergy.com
Announcing the SPE SJV Section Monthly Networking Bash

Sponsored by:

HALLIBURTON

Thursday, December 6th
5:00pm to 7:00 pm
at
Lengthwise Brewery @ The Marketplace
9000 Ming Ave

Please bring a stuffed animal or book for the Holiday Toy Drive, extra raffle ticket for each item!

SPE Networking bashes are held monthly as a service to our members. This is a great opportunity to come out and meet people from all areas of our industry in a social setting.

Our sponsor generously provides appetizers for your enjoyment while you are meeting new people or visiting with a longtime colleague.

Non-members guests are always welcome to attend.

RSVP to Amanda Callahan @ Amanda.Callahan@crc.com
or (661) 334-0305
Call for Papers
SPE Western North America Regional Meeting – 2019
“Thriving Through Change; Innovation, Analytics, and Sustainability”
April 22 to April 25, 2019
Venue: DoubleTree Hotel, Silicon Valley, San Jose California

The Golden Gate Section of the Society of Petroleum Engineers invites the submission of proposals for papers to be presented at the 2019 SPE Western North America Regional Meeting. The meeting will provide an opportunity for operators, suppliers, contractors, and technology and service company personnel to network and share ideas, innovative solutions and information about optimizing operations and economics. Proposals are sought for papers sharing fundamental/applied research, technical innovations, practical applications, case histories and lessons learned. Topics of interest include but are not limited to:

Data Analytics
- Machine Learning in the Oil Field
- The Digital Oilfield and Utilization of Big Data

Drilling
- Well Interventions
- Coiled Tubing Drilling

Completions
- Formation Damage Evaluation and Mediation
- ICDs and other Advanced Completion Technologies

Production and Operations
- Heavy Oil & Thermal Recovery
- Facility Integrity and Operating Life Extension
- Enhanced Oil Recovery Techniques & Technology

Health, Safety, Security, Environment, and Social Responsibility
- Regulatory Compliance in a Changing World
- Fracture Gradient Compliance in California
- Digital Security – Concerns and Solutions

Management and Information
- Risk Assessment and Mitigation
- The Digital Oilfield and Utilization of Big Data

Projects, Facilities and Construction
- Water Treatment, Beneficial Use, Recycle, Disposal Options
- Mature Field Optimization & Operations
- Pipeline Operations and Maintenance
- Steam Generation and Injection

Reservoir Description and Dynamics
- Reservoir characterization using static and dynamic data
- Modelling Excellence: Reservoir performance and monitoring
- Low Salinity Water Flooding

General Topics
- Unconventional Resources
- Geothermal Resources and Operations
- Case Histories / Lessons Learned
- Technology: Innovations, Trials, and Implementations


Complete technical papers will be included in the SPEI Online library OnePetro, a multisociety library that covers a broad range of E&P literature. Attendees will have full-ever access to papers presented at this conference. For information and advice on authoring an SPE paper, see http://www.spe.org/authors/papers.php and http://www.spe.org/authors/resources/. For the paper policy of the conference, see http://www.spe.org/events/papers/policies.php
How to Apply:
Applications will be screened and only the most qualified applicants will be selected to move forward in the selection process. Individuals who are currently in the classification, eligible for lateral transfer, eligible for reinstatement, have list eligibility, are in the process of obtaining list eligibility, or have SROA and/or Surplus eligibility (please attach your letter, if available) may apply. SROA and Surplus candidates are given priority; therefore, individuals with other eligibility may be considered in the event no SROA or Surplus candidates apply.

Who May Apply:
If interested, please submit your completed Standard State Application (STD. 678). On your application, PLEASE INDICATE “HRO #184, SENIOR OIL AND GAS ENGINEER (SPECIALIST), PSN # 538-202-3727-XXX”. Applications must be postmarked by the final filing date to be considered.

Special Requirements:
- Only candidates with 3 or more years of drilling experience will be considered
- This position requires a valid driver’s license.
- This position is subject to the Department’s Conflict of Interest Code.

Application Instructions:
Completed applications and all required documents must be received or postmarked by 11/30/2018 in order to be considered.
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Environmental Health & Safety Manager (Bakersfield):

- Candidate should have 5 years of experience in industrial EH&S or in CA Oil & Gas related job preferred.
- Associates degree/technical certification preferred or equivalent combination of technical training and/or related experience.

HOW TO APPLY:

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Technical Consulting for the Oil & Gas Industry

I am Charlie Webb, owner of Golden Trout Engineering in Bakersfield, California. I have 36 years of unique technical experience with heavy and light oil fields in the San Joaquin Valley, including expertise in new technology development, project management, and design & construction of facilities. I worked 33 years with Chevron, including the six years as Technology Advisor for the San Joaquin Valley Business Unit.

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A Note from Guillaume Moog, SJV-SPE Membership Chair

The Society of Petroleum Engineers is not just for engineers! Below is a quick list of some of the benefits a membership offers:

**Member Benefits**

- Conference and Workshop Discounts – for technical knowledge and interaction
- Technical Papers and Libraries – access to OnePetro, largest online technical library
- Career Advancement – Leadership and volunteer opportunities, Career Center for tools
- Purchases – discounts on insurance, car rental, Lands’ end Business Outfitters
- Use Membership Icon in emails
- ...

Membership includes one SPE Local Section: San Joaquin Valley (SJV) Section of SPE, sjv.spe.org

It’s time to renew: by keeping your membership, you will still be on our distribution list for networking, newsletters, seminars, training, and have access to helpful information and resources to help you thrive.

But please share the goodness and pass to coworkers who aren’t members yet.

Join/Renew online: [www.spe.org/join](http://www.spe.org/join)

Dues for United States are $110/year membership + $20 Entrance fee (Student and recent graduates discounts available)


SPE still offers resources for people in transition:


Unemployed people can still renew their SPE membership through the Dues Waiver program. To qualify for a dues waiver, visit [http://www.spe.org/join/options.php](http://www.spe.org/join/options.php):

Keeping your membership will help you get information from the SJV SPE section on future networking opportunities
How to set your email preferences with SPE:

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Connect.spe.org

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3. Set your email preferences.

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