From the Chair
Volunteer Opportunity!
USC Student Chapter Field Trip
2017 SPE President Visits SJV
Scholarship Fundraiser
August General Section Meeting
Continuing Education Classes
SJV SPE Networking Bash
SJV-SPE Board Members
Join SPE
Dear members,

For this month we have a couple of great events planned. The 2017 SPE President Janeen Judah will be paying us a visit on Tuesday August 9th, and our general section meeting will be highlighting South Belridge water recycling on August 18th.

Events outside our region include the Eastern Region Meeting taking place September 13th in Ohio, a Thermal Caprock Integrity Workshop in Calgary September 20th, and ATCE in Dubai this year from September 26th to the 28th. If you would like to check out these events as well as many more follow the link [here](#).

As a safety moment, you all know the heat has been relentless and doesn’t look to be letting up any time soon. While you are out and about please be sure to stay hydrated, make the most of shady areas, and check your vehicles coolant levels before long road trips. This heat can be deadly and every precaution should be taken before any last minute summer vacations.

Lastly, as a teaser for the upcoming Western Region Meeting, April 23rd to the 27th, we will be having three different panel sessions relating to some of the most pressing issues facing us all… regulatory issues, the micro and macro economic environment, and valley executives will be providing us with their own insights on the state of the oil and gas industry. More details will come in the near future with specifics on registration and where you will be able to submit a paper for the technical session!

Until next month.

Sincerely

Your SJV SPE 2016-2017 Chair,
Keith Kostelnik
#AreYouInterested?

Kern County Science Foundation needs SPE’s expertise!

We are looking for mentors for elementary science fair who have about 1-2 hours per month to meet with elementary students and engage with them on their science fair projects. We are looking for people who want to encourage students to continue on with their interest in STEM.

LOOKout

If you are interested please contact SPE’s community outreach coordinator, Allison Escovedo, aescovedo@ebresources.com.
The University of Southern California-Society of Petroleum Engineers Student Chapter (USC SPE) organised a field trip to an open house organised by Summit ESP, on June 30, 2016 at their ESP manufacturing facility in Santa Clarita.

Summit ESP is an independent company providing integrated Electric Submersible and Surface Pumping systems to enhance daily well production and total reservoir recovery. With its headquarters in Tulsa, Oklahoma, Summit ESP inaugurated its first manufacturing facility here in California. In a very short span, Summit ESP has grown to be the second largest provider of ESPs in North America.

A group of 25 students from USC got the opportunity to attend the open house. The event was marked by the presence of eminent professionals associated with the company. The students were received by Ms. Michelle Pina (Business Development Manager, Summit ESP) and Mr. Gabe Ramseier (Account Manager) who gave them an overview of the company and its history. This was then followed by a brief talk by Mr. Mark Neinast (Vice President, Summit ESP) who explained to the students the working concepts of an electric submersible pump.

Following this, the students were taken to the workshop where they saw an actual ESP and the sensors used to collect subsurface borehole data while an ESP is in use. The highlight of this part of the tour was that the students got to appreciate how different an ESP looked from how they had visualised it on the basis of their course books, especially in terms of size. This part of the tour was handled by Mr. Gabe Ramseier and Mr. Mark Neinast, who gave the students an in-depth insight into the working of ESPs.

The next part of the tour was given by Mr. Brandon Davidson (Account Manager, Horizontal Pumping Systems, Summit ESP) who explained to the students how a horizontal pump functions, with the help of an actual model. Later, students engaged in conversations with professionals present at the venue, over lunch.

The end of the trip was marked by the distribution of goodies and a group photograph. This trip was a great learning experience for the students of USC, as they not only got clarity on their concepts, but also had the opportunity to interact with professionals and be inspired by the continual growth of the company.
It is our pleasure to announce that the 2017 SPE President, Janeen Judah, will be paying us a visit. She will be visiting August 9th and delivering a presentation at the Petroleum Club on Risk and Reward.

Abstract
Engineers are paid to predict: oil production, equipment performance, ultimate reserves, safety metrics, project costs and schedule. Data shows that 80% of all projects miss significantly on key metrics. Where have we gone wrong? How can we, as engineers, predict outcomes for accurately? Join Janeen for a frank discussion of prediction and performance and come away inspired to think differently.

Speaker Bio
Janeen Judah is the 2017 President of the Society of Petroleum Engineers, seconded from Chevron.

Her past Chevron leadership positions include General Manager for Chevron’s Southern Africa Business Unit, based in Houston, Texas, President of Chevron Environmental Management Company and General Manager of Reservoir and Production Engineering for Chevron Energy Technology Company. Before joining Chevron, she worked for Texaco and ARCO in various upstream petroleum engineering positions, starting in Midland in 1981.

Judah has held many SPE leadership positions, including SPE International Vice President Finance, on the Board as Director for the Gulf Coast North America Region and chairing both the Gulf Coast and Permian Basin sections. She was named a Distinguished Member of SPE in 2003 and received the Distinguished Service award in 2010. She started her SPE leadership as a student section officer at Texas A&M University.

Judah holds BS and MS degrees in petroleum engineering from Texas A&M University, an MBA from The University of Texas of the Permian Basin and a JD from the University of Houston Law Center.

If you would like to attend please RSVP by Friday, August 5th via one of three options detailed below.

Email keith.kostelnik@crc.com
Call 661-529-4330

Or via PayPal using one of the following links:

PayPal Link for SPE Members—$25
Paypal Link for Non-SPE Members—$30

This event will be held at the Petroleum Club, August 9th, 2016, with lunch at 11:30 AM.
RAFFLE TO SUPPORT SPE SCHOLARSHIPS

Enter for a chance to win a $750 gift certificate to Sea Venture Beach Hotel & Restaurant in Pismo.

1 ticket for $20 or 6 tickets for $100

Tickets can be purchased at SPE SJV events or by directly contacting:

Dave Susko at david.susko@bakerhughes.com or 661-336-3408

or

Scott Myers at SMyers@flotekind.com

All proceeds go to this year’s SPE Scholarship recipients!!!
A Practical Approach to History-Matching Premature Water Breakthrough in Waterflood Reservoir Simulation – Method and Case Studies in South Belridge Diatomite Waterflood

**Speaker:** Zhengming Yang PhD, PE, Senior Staff Reservoir Engineer at Aera Energy LLC

**Date:** Thursday, **August 18th, 2016** @ 11:30 AM

**Location:** The Petroleum Club, 12th Floor, 5060 California Avenue, Bakersfield

**Cost:** With online payment or RSVP: $25 members, $30 non-members
Walk-ins: $30 members, $35 non-members

**Reservations:** RSVP by **Tuesday morning August 18th**, using one of the following options:

**PayPal Links**

- **PayPal Link for SPE Members**—$25
- **PayPal Link for Non-SPE Members**—$30

Or

Email Jeff Kim at **Jeff.Kim@CRC.com**

Call (661) 412-5507

Walk-ins and attendees with email/phone RSVP must pay at the door. Credit cards and cash accepted at the door. RSVP no shows may be billed.
ABSTRACT:
Premature water breakthrough negatively affects waterfloods in low permeability, naturally fractured reservoirs such as the South Belridge Diatomite. Premature water breakthrough reduces the effectiveness of waterflooding by partially or entirely bypassing the reservoir matrix where most of the reservoir fluids are stored. Reservoir simulation is handicapped by the inability to accurately characterize the architecture of the natural and induced fractures that yield high conductivity flow paths between injectors and producers. Generally, reservoir simulation can only represent the effective fluid flow by ignoring the ineffective water production that bypasses the matrix. Detailed production performance analysis yields a practical approach to assist reservoir simulation in history-matching the waterflood process under premature water breakthrough conditions. Basic reservoir and rock-fluid characterization parameters must be tuned by history-match of primary production(464,510),(731,546) or before water injection related effects dominate fluid flow under waterflooding. The Y-function waterflood analytical method is used to diagnose premature water breakthrough on a well-to-well basis for the timing and duration. Effective water injection and production volumes are recalculated in reservoir simulation and used to achieve a history-match that honors oil production, reservoir pressure level and injection/production volume balance. A field-scale case study is presented to demonstrate the application and procedure of the proposed approach. The long-term waterflood prediction with the history-match model has been validated by comparing with analytical method forecast as well as the up-to-date continuous waterflood field data (4.5 years after history match date in the last reservoir simulation project). The proposed practical approach makes reservoir simulation a meaningful predictive tool in waterflood reservoirs when premature water breakthrough is a significant issue.

SPEAKER:
Zhengming Yang, PhD, PE, is a senior staff reservoir engineer with Aera Energy LLC (a Shell and ExxonMobil joint Venture) in Bakersfield, California; works on integrated reservoir study and simulation projects as well as production performance diagnoses and forecasts based on field production data; has worked on integrated reservoir projects for heavy and conventional oils in US, Venezuela and China. He graduated with PhD degree in petroleum engineering from the University of Southern California, an MSc degree in petroleum engineering from RIPED Graduate School in Beijing and a diploma in chemical engineering from Tianjin University in China. Zhengming has published/presented more than 20 journal/conference papers. He is an active technical reviewer in his expertise area to the SPE journals. He served as a co-chair of the mature waterflood management session in 2010 SPE Western Regional conference in Anaheim CA. He is the recipient of 2016 Western North America regional award for reservoir description and dynamics.
Short course: Engineering Aspects of Geologic CO\textsubscript{2} Storage

Dr. Dayanand Saini, California State University at Bakersfield

Date: September 15, 2016 (8:00 am to 4:00 pm)

Location: California State University at Bakersfield campus (CSUB).

Payment & Cost:

Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail) or register & pay with a credit card via PayPal (below). The price of this course is $350 per person for employed professionals, $200 for unemployed professionals (should be SPE members) and $75 per person for students. Morning snacks, cold and hot drinks are included.

PayPal Links:

**Employed Professionals:**
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=Y8UNX5E8PATXC

**Unemployed Professionals:**
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=HDVPHPE8XFSX8

**Students:**
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=5QKK6QYRFQESG

Course Description:

This 1-day course is designed to introduce the practicing oil industry professionals to key engineering aspects of geologic CO\textsubscript{2} storage (GCS). Emphasis will on the potential use of petroleum industry’s experience and expertise to develop prudent greenhouse gas emissions (GHG) mitigation solutions that involves storage of supercritical CO\textsubscript{2} in depleted oil fields and deep saline formations while creating economic value for the industry. Industry professionals (reservoir engineers, geologists, regulatory and project management professionals, and managers) interested in understanding the various engineering aspects of GCS, its relevance to petroleum industry and the role industry can play, will benefit from this introductory course.

Course Outline:

Using the material from notable published papers and technical reports, following topics will be discussed.

- The oil industry and climate change
- Basic concepts of CO\textsubscript{2} injection based enhanced oil recovery (EOR) processes
- Selection of candidate oil fields
- Miscibility, gravity drainage, well configuration, cap and reservoir rock integrity issues
- Simultaneous CO\textsubscript{2} EOR and storage
- Dedicated geologic CO\textsubscript{2} storage (deep saline formations)
- Past and current GCS projects
- Relevance of GCS for petroleum industry
Instructor Biography:

Dr. Dayanand Saini is an assistant professor of petroleum engineering at California State University, Bakersfield (CSUB), where, apart from teaching various core engineering and petroleum engineering electives and developing petroleum engineering program, he is leading a five year-long Notational Science Foundation (NSF) funded multimillion dollar research project for investigating the feasibility of using CO$_2$ injection as drive mechanism to produce formation water for beneficial reuses. He also serves as faculty advisor for the Society of Petroleum Engineers (SPE) Student Chapter at the CSUB.

Prior to joining CSUB, he worked as Research Manager-Reservoir Engineering at the Energy and Environmental Research Center (EERC) of the University of North Dakota, Grand Forks, ND, where he managed compositional reservoir simulation, special core analysis (SCAL), and other reservoir engineering related activities for two multimillion dollars simultaneous CO$_2$ enhanced oil recovery (EOR) and storage demonstration projects funded by the U.S. Department of Energy (DOE)-National Energy Technology Laboratory (NETL). He also evaluated CO$_2$ EOR potential for depleted oil fields as per client’s needs. He also worked as Reservoir Engineer with Oil and Natural Gas Corporation Limited, India, from 2001 to 2006.

He has authored and co-authored several journal articles in the area of GCS and have assisted industry clients in making business decision of acquiring depleted oil fields. Based on his such recommendations, an industry client in 2012, purchased the evaluated field in a multi-billion dollars deal with the majority interest.
Summit ESP: Committed to the California Market During Challenging Market Conditions

Market uncertainty following the recent downturn in oil prices provides challenges for operators and field service suppliers, especially the traditional, top-heavy service companies who often become too internally focused to adequately respond to customer needs.

Despite challenging market conditions, in 2015 Summit ESP decided to move into the California market, fully committing to providing the critical resources needed to help our clients maximize production and minimize total cost of ESP operations.

Focusing on our most important asset – people – Summit hired the very best technical experts as well as experienced shop and field service personnel who work together to provide exceptional customer service. This all-consuming focus on our customers has also driven us to innovative solutions in new equipment design and delivery options, designing and building a state of the art “factory of the future” ready to rapidly respond when the market turns around.

October 2015  
Hired 1st employee

January 2016  
Secured lease on 32,000 sf shop in Santa Clarita, CA

February 2016  
Hired initial sales staff, all personnel begin extensive training in other regions

April 2016  
Installed 1st ESP system in California

May 2016  
Installed 2nd ESP system in California

June 2016  
Hired two (2) tech. account managers

June 2016  
Grand opening full service shop staffed with personnel with 140+ years’ experience

January/February 2016  
Hired field service and shop personnel; began ordering testing & assembly equipment

April 2016  
Secured first MSA with major California oil producer

Oil @ $50 $33 $26 $30 $41 $50

Summit Location in California: Santa Clarita 661.568.2947

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6/24/2016
Electric Submersible Pump Systems

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GE Oil & Gas is dedicated to lowering your lifting costs, increasing production, extending runtimes, and optimizing operations through the application of our industry leading Electric Submersible Pump products.

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For more details please contact:
Braidon Waggoner
1 (661) 342 9836 | Braidon.Waggoner@ge.com
Peter Hege
1 (562) 371 5237 | Peter.Hege@ge.com
Announcing the SPE SJV Section Monthly Networking Bash

Sponsored by:

GlassPoint

Thursday, August 25, 2016
5:30 to 7:30 pm
at
Lengthwise Brewery “The Pub” Northwest
2900 Calloway

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-member guests are always welcome to attend.

RSVP to Dave Susko @ david.susko@bakerhughes.com or 661-342-0691
# SJV SPE Board of Directors

## 2016-2017

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<thead>
<tr>
<th>POSITION</th>
<th>NAME</th>
<th>COMPANY</th>
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<td>Section Chair</td>
<td>Keith Kostelnik</td>
<td>California Resources Corp.</td>
<td>(661) 412-5427</td>
<td><a href="mailto:Keith.Kostelnik@crc.com">Keith.Kostelnik@crc.com</a></td>
</tr>
<tr>
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<td>Community Outreach</td>
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<td>Award Nominations</td>
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<td>Director</td>
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<tr>
<td>Student Chapter</td>
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<td>Faculty Advisor</td>
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<td>Student Chapter</td>
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<td>CSUB Student Chapter</td>
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<td><a href="mailto:csub.spe@outlook.com">csub.spe@outlook.com</a></td>
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<tr>
<td>President</td>
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A Note from Reza Ardali, SJV-SPE Membership Chair

To state the obvious, this is a tough time in the oil business. Please note, SPE has some good benefits to help us weather through this downturn. For those of you that know of others that have been laid off, please forward this information below to them. I think this will be helpful to them.

May I suggest you take a look at the following links:

Members in Transition Toolkit: http://www.spe.org/members/transition/

2016 President Nathan Meehan, “Should I Stay or Should I Go?”

Please note, in spite of unemployment, you can renew your SPE membership. You can apply for a Dues Waiver. To qualify for a dues waiver, you must ( http://www.spe.org/join/options.php ):

- Provide a written request for unemployment or disability.
- Submit a dues waiver request annually.
- Email service@spe.org, or write to:
  SPE
  Attn: Membership Processing
  P.O. Box 833836
  Richardson, TX 75083-3836 USA.

By keeping your membership, you will still be on our distribution list for networking, newsletters, and have access to helpful information to help you thrive in a downturn. Keeping your membership will help you get information from the SJV SPE section on future networking opportunities.

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

Other Resources to Join SPE
Join online: www.spe.org/join

YouTube Video: https://www.youtube.com/How to Join SPE (Professional Membership)

Professional Membership Qualifications:
Employed in work related to petroleum industry AND have one of the following:
1. University degree equivalent to 4-year Bachelor’s degree in engineering or basic or applied sciences
2. 2-year science or engineering degree or a 4-year degree in a field other than science or engineering
3. 6 years of active practice in support of petroleum engineering or in the application of science to the petroleum industry

Dues for United States are $90/year membership + $20 Entrance Fee
Former Member? Look at: http://www.spe.org/join/reinstate.php

Student? Look at: https://www.youtube.com/Student Membership
SUPPORT THE SJV SPE NEWSLETTER BY PURCHASING ADVERTISING SPACE

MONTHLY NEWSLETTER DISTRIBUTED TO THE SAN JOAQUIN VALLEY SECTION
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E-mail the SJV SPE Newsletter Editors for more info at jared.paddock@chevron.com

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Note: We offer a 10% discount off the above prices, for 6 months, and a 20% discount for 12 months.

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