From the Chair

Scholarship Awards Luncheon

Scholarship Fundraiser

Continuing Education Classes

USC Online Workshop

SJV-SPE Board Members

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Dear members,

As we move into a new year for the board a few special acknowledgements are in order. First, I would like to begin by thanking our previous chair Pam Willis for her guidance and leadership. She guided the helm during a tumultuous time with grace. Stepping down from the board is Blythe Johnson. Blythe stepped up to the plate for the board and the valley in a number of ways. We are sincerely thankful for her taking the time to make us a part of her (and Andrew's) life. We wish you the best of luck in your future endeavors. Also stepping down from the board is Craig Pauley (Chevron) and Roman Omelchenko (CRC). Thank you for all you have done.

We recently held a vote for our open board positions and would like to welcome David Linn (Aera Energy), Guillaume Moog (Aera Energy), and Rod Guice (Independent Contractor). I look forward to working with each of you over the coming years.

The coming year has a lot in store for us. We will be hosting the Western Regional Meeting at the Marriott Convention Center downtown April 23rd – 27th. The theme for this year’s event is “Waves of Change, Oceans of Opportunity”. It is no secret we have had to deal with a lot as an industry. We will try and steer the conference to provide some additional insight into each major area of upheaval (Regulatory, Economic, and Political) while still providing a world class technical session and allowing opportunities to mix and mingle with the latest and greatest exhibitors have to offer.

Until next month.

Sincerely
Your SJV SPE 2016-2017 Chair,
Keith Kostelnik
The 2016 SJV SPE Scholarship Committee would like to congratulate our winners and thank all SPE members for their support of our scholarship program.
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!!!
Short course: Engineering Aspects of Geologic CO₂ 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 CO₂ storage (GCS). Emphasis will be 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 CO₂ 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 CO₂ injection based enhanced oil recovery (EOR) processes
- Selection of candidate oil fields
- Miscibility, gravity drainage, well configuration, cap and reservoir rock integrity issues
- Simultaneous CO₂ EOR and storage
- Dedicated geologic CO₂ storage (deep saline formations)
- Past and current GCS projects
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 CO₂ 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 CO₂ 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 CO₂ 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

10-Year Oil Price Chart
Oil Economics and the State of the Industry

Thursday, August 4th, 2016

EEB 132, 1:00 pm – 5:00 pm

This workshop will be webcast: https://bluejeans.com/89443358

The presentations will include examining topics such as the oil price movements, market fundamentals, supply/demand cycles, ‘paradigm shifts’ from technology, the importance of the Middle East, short-term versus long-term decision options, the role of OPEC, domestic and global politics, the relations between Saudi Arabia and the United States, regulating the price of oil or leaving it to ‘market forces’ and some other topics. The outlook for the oil market will then be briefly discussed.

A combination of speakers from diverse career backgrounds, from the industry to academia, and from policymaking to economics, this symposium aims at providing the audience with an up-to-date overview of the state of the oil and gas industry and the current market dynamics.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1:00 – 1:15</td>
<td>Opening remarks</td>
<td>Dr. Manouchehr Takin (Independent Consultant, UK)</td>
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<tr>
<td>1:15 – 2:00</td>
<td>Oil Pricing – Only Supply &amp; Demand?</td>
<td>Dr. Elmer Dougherty (USC Emeritus Professor)</td>
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<tr>
<td>2:00 – 2:30</td>
<td>OPEC &amp; Middle East Oil Economics</td>
<td>Dr. Jeff Nugent (USC Department of Economics)</td>
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<tr>
<td>2:30 – 3:00</td>
<td>Break</td>
<td>Dr. Donald Paul (USC Energy Institute)</td>
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<td>3:00 – 3:30</td>
<td>Sovereign Wealth Funds Reform in the Middle East Oil Exporting Countries</td>
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<tr>
<td>3:30 – 4:00</td>
<td>Booms &amp; Busts in the Oil and Gas Industry</td>
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<tr>
<td>4:00 – 5:00</td>
<td>Open discussion panel &amp; closing remarks</td>
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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

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

<table>
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<tr>
<th>October 2015</th>
<th>January 2016</th>
<th>February 2016</th>
<th>April 2016</th>
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</table>

Summit Location in California: Santa Clarita 661.568.2947
Electric Submersible Pump Systems

A single source for your artificial lift needs

geoilandgas.com

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.

We draw on innovative solutions across GE’s high-tech portfolio to bring more capabilities and performance to the field; we are helping shape the oil and gas industry by injecting technology and lessons learned from our other businesses directly into our artificial lift products. All of this is complemented by superior regional and local support services that allow us to meet our customers’ needs through collaboration and innovation.

One source. One team. Capable, responsive, reliable, innovative and ready to maximize your well so it performs at its optimal level — whatever its location or stage.

For more details please contact:
Braidon Waggoner
1 (661) 342 9836 | Braidon.Waggoner@ge.com

Peter Hege
1 (562) 371 5237 | Peter.Henge@ge.com
## SJV SPE Board of Directors

### 2016- 2017

<table>
<thead>
<tr>
<th>POSITION</th>
<th>NAME</th>
<th>COMPANY</th>
<th>PHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<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>
<td>Program</td>
<td>Jeff Kim</td>
<td>California Resources Corp.</td>
<td>(661) 412-5507</td>
<td><a href="mailto:Jeff.kim@crc.com">Jeff.kim@crc.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Tom Hampton</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5227</td>
<td><a href="mailto:TJHampton@aeraenergy.com">TJHampton@aeraenergy.com</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Rakesh Trehan</td>
<td>California Resources Corp.</td>
<td>(661) 529-4272</td>
<td><a href="mailto:Rakesh.Trehan@crc.com">Rakesh.Trehan@crc.com</a></td>
</tr>
<tr>
<td>Membership</td>
<td>Mojtaba (Reza) Ardali</td>
<td>California Resources Corp.</td>
<td>(661) 412-5221</td>
<td><a href="mailto:Mojtaba.Ardali@crc.com">Mojtaba.Ardali@crc.com</a></td>
</tr>
<tr>
<td>Surface Study Group</td>
<td>Rod Guise</td>
<td>Independent</td>
<td>(720) 217-5701</td>
<td><a href="mailto:stargazer10000@gmail.com">stargazer10000@gmail.com</a></td>
</tr>
<tr>
<td>Subsurface Study Group</td>
<td>Guillaume Moog</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5499</td>
<td><a href="mailto:gmoog@aeraenergy.com">gmoog@aeraenergy.com</a></td>
</tr>
<tr>
<td>Newsletter Editor</td>
<td>Jared Paddock</td>
<td>Chevron</td>
<td>(661) 654-7945</td>
<td><a href="mailto:Jared.Paddock@chevron.com">Jared.Paddock@chevron.com</a></td>
</tr>
<tr>
<td>Website Administration</td>
<td>Indar Singh</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5243</td>
<td><a href="mailto:ISingh@aeraenergy.com">ISingh@aeraenergy.com</a></td>
</tr>
<tr>
<td>Continuing Education</td>
<td>Patrick Niebuhr</td>
<td>Halliburton</td>
<td>(661) 391-1920</td>
<td><a href="mailto:Patrick.Niebuhr@halliburton.com">Patrick.Niebuhr@halliburton.com</a></td>
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<tr>
<td>Program</td>
<td>David Susko</td>
<td>Baker Hughes</td>
<td>(661) 336-3408</td>
<td><a href="mailto:David.Susko@bakerhughes.com">David.Susko@bakerhughes.com</a></td>
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<tr>
<td>Community Outreach</td>
<td>Allison Escovedo</td>
<td>E&amp;B Resources</td>
<td>(661) 699-3690</td>
<td><a href="mailto:aescovedo@ebresources.com">aescovedo@ebresources.com</a></td>
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<tr>
<td>Education</td>
<td>David Lin</td>
<td>Aera Energy LLC</td>
<td>(661) 665-4308</td>
<td><a href="mailto:DHLin@aeraenergy.com">DHLin@aeraenergy.com</a></td>
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<tr>
<td>Young Professionals</td>
<td>Pamela Willis</td>
<td>Aera Energy LLC</td>
<td>(661) 869-5790</td>
<td><a href="mailto:PTWillis@aeraenergy.com">PTWillis@aeraenergy.com</a></td>
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<tr>
<td>Liaison</td>
<td>Andrei Popa</td>
<td>Chevron</td>
<td>(661) 654-7187</td>
<td><a href="mailto:AndreiPopa@chevron.com">AndreiPopa@chevron.com</a></td>
</tr>
<tr>
<td>Award Nominations</td>
<td>Dayanand Saini</td>
<td>CSUB</td>
<td>(661) 654-2845</td>
<td><a href="mailto:dsaini@csub.edu">dsaini@csub.edu</a></td>
</tr>
<tr>
<td>Western NA Regional</td>
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<td></td>
<td><a href="mailto:csub.spe@outlook.com">csub.spe@outlook.com</a></td>
</tr>
<tr>
<td>Director</td>
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A Note from Tom Hampton, 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
Advertising Order Form for the monthly newsletter of the
San Joaquin Valley Section of Society of Petroleum Engineers
SJV Section of SPE, PO BOX 21135, Bakersfield, CA 93390
sjv.spe.org
Taxpayer ID# 75-2001539

Company Information:

Company: 
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City, State, Zip: 
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Contact Name: 
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Monthly Advertising Rates: (circle one)

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Advertising Order Form:

Ad Size Start Date: 
One Month CostPaid in Full
# Months Run
TOTAL Due:
Payment Due

If possible, please provide payment at time of placing advertisement.

Please make checks payable to "San Joaquin Valley Section of SPE"

Special Instructions:

Art Work: (circle one)
Camera Ready Art Black & White Copy
Business Card Diskette

Please send camera ready art work or business card for ad and this form to:

Jared Paddock, Newsletter Editor Jared.paddock@chevron.com

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