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Photograph © Ann Littlefield 2016

Newsletter Editor:
Craig Pauley
CraigPauley@Chevron.com
Registration is open for the 2016 Western Regional Meeting. Lodging for the meeting will be at the Sheraton Anchorage Hotel and Spa. Group rates are available until April 21st. To stay up to date for the Western Regional Meeting, go to http://www.spewrm.org/, and subscribe for updates. The Alaska Section has decided to limit e-mail blasts for the WRM. The majority of the updates will appear in this newsletter.

Due to the low price of oil, the Golf Tournament Committee has decided to cancel the tournament this year. The purpose of the golf tournament is to raise funds for the SJV Section scholarships. The Committee decided that they will have a raffle this year instead, to raise money for scholarships. The raffle prize is a $750.00 gift card for Sea Venture Beach Hotel, in Pismo Beach. Raffle tickets will be available for purchase at the Networking Bash, General Section Meeting, Surface and Subsurface Meetings.

Finally, we have two openings on the Board for the 2016 – 2017 session. If you are interested in volunteering, or know of someone who would be interested in volunteering, we now accepting nominations. A nomination form is on Page 14 of this newsletter. Please return all nominations to me at ptwillis@aeraenergy.com by Friday, April 22nd.

Remember to work safely,

Pam Willis
General Section Meeting  
April 21st

Lessons Learned from Data Mining in Unconventional Reservoirs

Speaker: Randy LaFollette, Baker Hughes

Date: Thursday, April 21st, 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 April 19th, using one of the three options:

- Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:
  - PayPal Link for SPE Members - $25  
  - PayPal Link for Non-SPE Members - $30
- OR if the above links don’t work copy these links in your browser’s address box
  - Members: https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=7A2JFHFWPSz2
  - Non-Members: https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=63VWGRZM3PY8A

- OR Contact Keith Kostelnik at Keith.Kostelnik@crc.com, or (661) 412-5427.

After Tuesday, April 19th PayPal will be disabled and RSVP’s will be required to pay the Walk-in fee at the event. 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:

The task of identifying key production drivers in unconventional reservoirs remains challenging, even after decades of exploration and production in North America, during which tens of thousands of horizontal unconventional wells have been drilled and completed. Tens to hundreds of variables, categorized as reservoir quality, well architecture, completion, stimulation, and production metrics, are involved. The author’s team has combined geospatial data mining in unconventional reservoirs to raise an awareness of cutting-edge statistical tools and methods being used in the industry. The presentation will provide examples of data mining projects in three shale plays.

SPEAKER:

Randy LaFollette is the director of applied reservoir technology at Baker Hughes’ pressure pumping services. With 37 years of experience in the industry, he is a subject matter expert in geoscience and petroleum engineering. He leads a team of experts responsible for conducting geospatial and data mining studies of stimulation effectiveness, comparing reservoir quality, well architecture, well completion, and treatments performed with production results. LaFollette holds a BS in geological science from Lehigh University.
March General Section Meeting  Speaker: Apu Sharma

Topic: Produced Water Reclamation—Opportunities and Challenges—A CRC Perspective

Ten-Year Midway-Sunset Oil Price Chart
Sub-Surface Study Group

SPEAKER: BILL BARTLING

Bill Bartling is the Inland District Deputy for the Department of Conservation, Division of Oil, Gas and Geothermal Resources in Bakersfield California. The Inland District includes all or portions of Kern, Kings, Tulare, Inyo, Fresno and Madera Counties, which accounts for over 80% of oil and gas production in California.

Prior to joining DOGGR in October, 2015, Bill was General Manager of Borehole Imaging for OptaSense Ltd, President and CEO of SR2020, Sr. Director of Market Strategy at Silicon Graphics, Manager of Technical Computing at Occidental Oil and Gas, Sr. VP of Software Engineering at CogniSeis Development and Earth Scientist/Manager in exploration, production and research at Chevron. Bill has a BS in Biological Sciences from UC Santa Barbara and a MS in Geology from San Diego State University, is Vice President of SBC Pacific Section and sits on the Advisory Board of the San Diego State University Center for Computational Sciences. He is a member of SPE, AAPG, SBC and BAGIR.

Renewal Plan for Oil and Gas Regulation

In October of 2015, the Department of Conservation and Division of Oil, Gas and Geothermal Resources published a document defining a sweeping set of modernizations at DOGGR titled “Renewal Plan for Oil and Gas Regulation”. This plan was authored to address recognized opportunities to improve the performance of the Division through four distinct objectives:

1. Regulatory Overhaul
2. New Regulations for New Realities
3. Modernizing Data Management
4. Ensure High Quality Workforce

Adopting and implementing this plan, along with complying with new commitments to the US EPA and new state and local legislative measures has resulted in major programmatic and organizational changes in the Division that affect DOGGR priorities and operations and how oil and gas fields are operated in California.

This talk will address:

- the objectives and progress of the DOGGR Renewal Plan
- an overview of the commitments to the EPA
- a summary of new state and local legislation passed and pending
- how these are impacting or potentially will impact oil and gas operations in the Inland District and Statewide.

Date: Thursday, April 7th, at 11:30 a.m.
Location: Petroleum Club, 12th floor, 5060 California Avenue, Bakersfield
Please RSVP by 12 PM, Wednesday, April 6th, 2016

Using one of these options:
Paypal account where you can use your Visa, Mastercard, American Express, Discover, or Paypal Account
Members $25
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=LJIM9VX4R29AY

Non-Members $30
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=YQUYTDGGAKRWS

Students: Free with RSVP, no-shows may be billed
Day of event: Members $30, Non-Members: $35

Walk-ins and attendees with email/phone RSVP must pay by cash or credit card at the door.
Please email or call Allison Escovedo aescovedo@cehresources.com 661-699-3690 for email/phone RSVP
SPE Western Regional Meeting

May 23rd- 26th 2016
Sheraton Hotel, Anchorage, Alaska

www.spewrm.org

Take advantage of this networking and local educational event!

Register by April 1st for Early Bird Prices

Exhibitor and Sponsorship Opportunities are still available

May 23, 2016
• Well Integrity in a Low Price Environment Workshop
• Kuparuk Core Viewing
• Integrated Reservoir Management Short Course
• Student Paper Contest

May 24th-26th, 2016
• Technical program (100+ papers)
• Two panel sessions: Never Waste a Good Crisis and Meet the Regulators
• Awards and Keynote Luncheons
• Networking Events, Golf Tournament, Gas Plant Field Trip and Exhibits

Contact for Questions: Jamie Staudinger at jamie.staudinger@bp.com

SPE is grateful to our sponsors who help make this conference possible:
2016 College Scholarship Program

The San Joaquin Valley (SJV) chapter of the Society of Petroleum Engineers is offering a college scholarship program for Fall 2016. The Scholarship is co-funded by SJV member activities and SPE headquarters.

*Submittal deadline is April 15th, 2016.*

Scholarships will be awarded to graduating high school seniors & undergraduate-level college students. Awarded candidates will receive up to $5000 depending on academic achievement and overall strength of the applicant pool.

To be eligible an applicant must be:

1. A Student pursuing a degree in a petroleum-related field (any branch of engineering, environmental or earth sciences) and,

   **Either**

   2. A California resident (or a non-resident if the child of a current San Joaquin Valley SPE member)

   **Or**

   3. A non-resident with petroleum industry work experience in California, including summer internships & Comet program internships

**For more information, please contact:**
Jared Paddock,
Community Outreach Director,
Phone: (661) 654-7945
Email: jared.paddock@chevron.com
**Forms can be downloaded from:** [http://connect.spe.org/sjv/aboutus/scholarships](http://connect.spe.org/sjv/aboutus/scholarships)
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!!!
Practical Waterflooding

By: Jerry Foster, California Resources Corporation

Date: April 14, 2016 (7:30 am to 4:30 pm)
Location: California State University at Bakersfield, Bakersfield, California.

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 professionals and $100 per person for students. Morning and afternoon snacks, cold and hot drinks is included.

PayPal Link:
- Professionals: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=AWFMHYAJCV97C
- Students: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=56JU3AE7JL3WG

Questions:
Please call Reza Ardali @ 661-412-5221 (office); 979-422-1251 (mobile) or e-mail mojtaba.ardali@crc.com if you have questions or need additional information.

Instructor’s Bio
Gerald “Jerry” Foster is currently Special Projects Advisor at California Resources Corporation. Jerry has more than 35 years of experience in oil and gas industry and has travelled to over 30 countries working on water and/or gas injection projects. Prior to CRC, Jerry was the Reservoir Engineering Discipline Manager for PetroSkills, Waterflood Principal Technical Expert for Shell International and worked for Aramco and ARCO. Jerry graduated from the University of Alaska – Fairbanks with BS Degrees in Petroleum and Geological Engineering.

Course Description
Water injection for additional oil recovery was documented in the literature in the 19th century. So controversial was that practice that it was outlawed in some states (sound familiar?).

Today, waterflooding is the most common injection fluid in the oilfields and the benefits, risks and best practices are well-known. In spite of its long history, a number of waterfloods fail during the pilot phase due to poor practices. In this one day short course, we separate fact from fiction and identify critical success factors which are known to work throughout the world.

Main course topics:
- Motivations for waterflooding
- Recovery mechanisms
- Timing & optimum pressures
- Fluid & rock properties
- Depositional environments
- Performance forecasting
- Analogues
- Matrix/fractured injection
- Injection water sourcing and chemistry
- Flood design
- Surveillance techniques
- Case studies (success and failures)

For details and questions contact:
Reza Ardali: mojtaba.ardali@crc.com
An Overview of Enhanced Heavy Oil Recovery

By Dr. Behrooz Fattahi

Date: June 14, 2016, (8:00 am to 4:00 pm)

Location: California State University at Bakersfield, Bakersfield, California.

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 $700 per person for professionals and $100 per person for students. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included.

PayPal Link:

Professionals: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=DQP7QU67GCD9C

Students: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=YZ6V45Q6PA7FW

Questions:
Please call Reza Ardali @ 661-412-5221 (office); 979-422-1251 (mobile) or e-mail: Mojtaba.ardali@crc.com if you have questions or need additional information.

Description: This 1-Day course is designed to serve as an introductory course in heavy oil recovery, providing background on a variety of heavy oil recovery techniques, with emphasis on steam injection recovery. Reservoir, production, and facilities engineers, geologists, and technicians, as well as managers participating or planning to engage in heavy oil production activities will benefit from this course.

I. Introduction to Heavy Oil Recovery
   - objective, content, and scope
   - major energy sources
   - global supply and demand for energy
   - various types of oil (light, ultra-light, heavy, ultra-heavy, bitumen)
   - description of where heavy oil is found (reserves, known locations)

II. Some Basic Concepts
   - oil types
   - mechanics of hydrocarbon recovery
   - critical parameters in flood recovery

III. Thermal Enhanced Oil Recovery
   - stages of oil recovery
   - thermal recovery techniques for heavy oil extraction
   - history of thermal recovery
   - heavy oil recovery challenges

IV. Fundamentals of Steam Injection Process
   - steam injection recovery challenges
   - thermal effects
   - steam injection and steam displacement process
   - contrasts between steam drive and steamflood
   - cyclic steam injection
   - field experiences

V. Elements of Steamdrive/Flood Management
   - movements of steam front, injection flux rate, heat balance
   - examples of historical oil-steam ratio behavior, produced steam-oil ratio

VI. Well Completions and Production Technology
   - types of well completions
   - temperature observation wells

VII. Surface Facilities
   - typical steamflood surface facilities

VIII. Considerations in Steam Injection Projects Development and Operation
   - critical technical considerations

IX. Post Steam Injection Recovery
   - volumetric sweep, and remaining oil saturation
   - capital expenditure for conversion

X. Other Heavy Oil Recovery Methods
   - air injection
   - chemical injection, miscible displacement process, microbial injection, elastic
   - wave vibration, microwave heating, electrical stimulation, electrical heating,
   - nano-particle dispersion

XI. Field Examples
   - cyclic steam
   - polymer flooding
   - microbial enhance oil recovery
   - steamdrive/flood

XII. Screening, Selection, Design, Implementation, and Operation
   - application and mechanism
   - critical considerations in heavy oil recovery project design

XIII. Summary and Conclusions
Short course

An Overview of Enhanced Heavy Oil Recovery

Instructor's Biography:

Dr. Behrooz Fattahi holds Ph.D. degrees in Aerospace Engineering and in Mechanical Engineering from Iowa State University. After 37 years of working in the industry, he retired from Aera Energy LLC, an affiliate of Royal Dutch Shell and ExxonMobil companies, in 2014. He was the Heavy Oil Development Coordinator at Aera, and in his last position, as the Learning Advisor, he taught several internal company technical courses, including topics on reservoir engineering and enhanced oil recovery.

Prior to joining the oil industry, Dr. Fattahi conducted research for the National Aeronautics and Space Administration, and the National Science Foundation, and taught a variety of courses in fluid dynamics and solid mechanics at Iowa State University. He joined the petroleum industry in 1977 by joining Shell International.

Dr. Fattahi is a past member of the American Institute of Aeronautics and Astronautics, and American Association of University Professors, and has served as a member of the United States National Petroleum Council. He has held many roles within Society of Petroleum Engineers International (SPE) leadership, including the Executive Editor of the SPE Reservoir Evaluation and Engineering Journal, Director of the Western North America Region, President of SPE Americas Inc., and Vice President-Finance.

Dr. Fattahi served as the 2010 President of SPE International. In retirement, he remains active as a member of the Board of the SPE Foundation, and as the 2014-15 President of the American Institute of Mining, Metallurgical and Petroleum Engineers, AIME. He is now the Vice President of SPE Foundation.
“Introduction to API Storage Tank Standards”

Instructor: Mr. John Cornell

Date: October 25-27, 2016
8:00 am to 4:00 pm

Location: University of Phoenix, 4900 California, Ave, Bakersfield.

Announcement:
SJVSP is proudly sponsoring the – “Overview of API Steel Storage Tank Standards”. This is an intensive three day course which is designed for petroleum industry personnel, Facility Engineers, Project Engineers and Managers, suppliers, engineering firms, and operating personnel and contractors responsible for the design, construction, inspection, maintenance, regulatory, compliance, or operation of both large and small above ground storage tanks.

Questions:
Please call Reza Ardali @ 661-412-5221 (office); 979-422-1251 (mobile) or e-mail mojtaba.ardali@crc.com if you have questions or need additional information.

Laptops are not required, and are discouraged during class.

Target Audience:
Facility Engineers, Facility Engineering Supervisors, Construction Engineers, Operational personnel, Supervision, Piping engineers, Contractors, Suppliers, designers, Project Engineers, Project managers, and anyone whom would like a better understanding Refining and Production Tanks.

Course Outline:
Day One: Large Atmospheric Tanks (API-650) – New Storage Tank Basics covering the choice of Materials, Design calculations, Fabrication and shop activities, Field Construction methodologies. Related topics include, Shell thickness calculations, floor plate layout and nomenclature, Optional tank designs for smaller tanks, Foundation design including a discussion regarding leak detection and containment, Nameplates, and etc.

Day two: Inspection and Repair of Existing Tank Evaluation (API-653) – Review of previous tank failures and their causes such as but not limited to Brittle fracture and Corrosion. A discussion of Inspection drivers and considerations, Inspection types and schedules, Critical zone welding limitations, Lap-patch placement and size limitations for both the bottom and shell, Safety concerns around tanks, and etc.

Day three: Production Site Tanks (API-12F -12B) New Tank Materials, Design, Fabrication and site installation. Also, (API-12R1), Inspection requirements of field production tanks. Topics include but are not limited to: Design thickness, Internal Inspections, External Inspection, Visual Inspections, Remaining Life Calculations and many more.

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 for SPE members and non-members is $1,510 per person. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included, PayPal Link: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=HUHPLBY4ANQHC

Instructor Biography:
Mr. John Cornell is a Senior Tank Specialist for and owner of H.I.R. Technical Services which is a well-recognized tank consulting firm for storage tank design, fabrication, construction, inspection, and repair.

He is currently an Official contracted training provider for The American Petroleum Institute worldwide and has been offering tank training courses on standards such as but not limited to API-620, API-650, and API-653 for many years.

Mr. Cornell has worked for several suppliers of both internal and external floating roofs and is now considered to be an expert on floating roof systems of all design.

Mr. Cornell discovered a gap in the training that was currently available to tank owners so he has assembled and now offers “The Advanced Tank Training” course which is intended to increase the knowledge of tank owners.

Mr. Cornell is The Senior Training Provider for The USDOT for PHSM as relating to Large Breakout tanks. Mr. Cornell is also an API-653 Certified Tank Inspector.
# SJV SPE Board of Directors
## 2015-2016

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<td><a href="mailto:BlytheJohnson@chevron.com">BlytheJohnson@chevron.com</a></td>
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2016 Election
San Joaquin Valley Section - Society of Petroleum Engineers

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Brief Work History

SPE & Petroleum Industry Contributions

Candidate Synopsis
Joining Society of Petroleum Engineers, SPE


SJV SPE Members

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

As a SJV SPE member, you will receive monthly newsletters and emails announcing upcoming events such as:

- General Section SPE Meeting,
- Sub-Surface and Surface Study Groups,
- Continuing Education,
- Annual Golf Tournament which raises money for scholarships,
- Networking Bashes,
- Distinguished Lecturers,
- Community Outreach Programs with Annual Engineering Day (reaching 500+ High School students) and Scholarships.

SJV is a strong section with 800+ members, with a great Board that volunteer their time to make SJV SPE a wonderful section. Please contact one of the board members to volunteer in your area of interest! Also note, speakers are wanted to share their knowledge.

How to Join?

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:

- University degree equivalent to 4-year Bachelors degree in engineering or basic or applied sciences
- 2-year science or engineering degree or a 4-year degree in a field other than science or engineering
- 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


Student? Look at https://www.youtube.com/Student Membership
Electric Submersible Pump Systems

A single source for your artificial lift needs

goilandgas.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
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:
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City, State, Zip: 
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Contact Name: 
Date of Request: 

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<th>Rate, $ / Month</th>
<th>Description</th>
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<td>25.00</td>
<td>(One business card size)</td>
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Advertising Order Form:

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

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