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March 19, 2015- General Section Meeting

Topic: Kern County Oil and Gas EIR

Speaker: Lorelei Oviatt, Kern County

Date: Thursday, March 19, 2015 @ 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 March 17th, using one of the two 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 contact Pamela Willis at PTWillis@aeraenergy.com (661) 665-5449

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

Lorelei Oviatt is currently leading the team on a 2.8 million acre project level EIR and Zoning amendment to streamline oil and gas permitting for Kern County and DOGGR and other State agencies. Updates and schedules will be discussed and how this effort will affect the future of our industry not just in Kern County but all of California.

SPEAKER

Lorelei Oviatt, AICP, is Director for the Kern County Planning and Community Development Department in California and has worked in both the public and private sector in land development. As the Director she manages the Kern County General Plan, Metropolitan Bakersfield General Plan and California Environmental Quality Act (CEQA) compliance. In her capacity as the Home Rule Program Coordinator, she has been involved in a number of successful NEPA challenges to Federal actions. She coordinates the review and comments on rules and regulations, and facilitates communication with State and Federal agencies from the perspective of their impact on private property owners, Kern County business and local government. Her years of professional planning experience in the public and private sectors focuses on project management of large scale, multi-agency planning efforts and moving extremely complex projects through the system under accelerated timeframes. Under her leadership Kern County has over 9162 MW of renewable energy projects permitted with 2/3 built and over 2000 MW more in process of review under CEQA to attain the Kern County Board of Supervisor’s goal of 10,000 MW in production by 2015.

She is a member of the American Planning Association (APA), the American Institute of Certified Planners (AICP) and the American Society for Public Administration. She is a past Director of the Southern Division for the Central Section of the California Chapter of the American Planning Association. Born and raised in South Florida, she has a Bachelor of Arts Degree in Sociology and Philosophy from Baldwin Wallace College in Berea, Ohio and a Masters of Public Administration from California State University, Bakersfield where she is a Lecturer for Urban Planning in the Department of Business and Public Administration.
Dear Members

I want to congratulate all who helped make the 2015 Engineering day at CSUB such a great success. Our Community Outreach Director Tom Hampton and all the volunteers did a great job coordinating and working the event. We had ~470 students from 20 different high schools in Kern County attend the event.

Our 11th annual SPE Golf Tournament is coming up! It will be April 10th and we are currently seeking sponsors. If you are interested please contact Scott Myers at smyers@flotekind.com.

Lastly, I would like to remind you to register to attend the 2015 SPE Western Regional Meeting scheduled for April 27–30, 2015 in Anaheim. Please check their website for deadlines and programs.

SPE News for March

There are several conferences and workshops being held this month:


- Production and Reservoir Performance through Pressure Management Workshop in Dallas, TX on March 31 - April 1, 2015. http://www.spe.org/events/15adls/

Sincerely

Your SJV SPE 2014-2015 Chair,

Blythe Johnson
ABSTRACT:

Heavy oil recovery relies on water, steam, and sometimes polymer flood operations to bring the oil to the surface. A high water content often results, requiring Heater Treaters for separating the oil/water emulsions. Localized hot spots along the heater’s firetube can cause coking or solids build-up on the outside surface of the tube, creating an insulating layer that perpetuates higher temperatures and additional hot spots. Eventually a firetube fails prematurely, often in a matter of weeks.

Heater Treater operators often reduce burner firing rate to avoid creating localized hot spots. This reduces heater throughput and water cut, limiting output from the field. Much of the problem is the result of the flame shape created by the burner—conventional flame burners, with a flame length of only a few feet, often have flames impinging on the inside surface of the tube.

To prevent coking while maximizing heat input to the emulsion, flameless, distributed heat flux radiant burners have been installed in California and Canada, including sites with polymer-containing emulsions. This burner consists of a porous ceramic tube that fits down the center of the heater’s firetube. Combustion at every point along the tube surface is identical, such that radiative and convective heat transfer to the firetube is much more uniform than conventional flame burners.

Testing in a heater treater firetube simulator confirms burner operation. Compared to a conventional flame burner, the distributed heat flux burner provides more heat down the length of the firetube, while minimizing peak temperatures. The result is prolonged tube life and greater heater throughput. Testing in the field is confirming these benefits.
From Program Chair, Andrei Popa
AndreiPopa@chevron.com

Dear Members

If you have not registered yet, I invite you to register and attend the Western Regional Meeting of SPE and besides networking with other professionals enjoy and benefit from a very exciting lineup of technical papers, panel discussions and short talks by key industry experts.

In addition to the scheduled papers, the conference committee is pleased to inform you that several distinguished speakers will be there to open up six of the technical sessions. The schedule includes:

- **Dr. Don Paul** of the University of Southern California who will present on the topic of Physical and Cyber Security of Oilfield Operations;
- **Dr. Keith Mulheim** of Strategic Worldwide LLC who will present The Challenges for Drilling in the 21st Century;
- **Dr. Ganesh Thakur** of Thakur Services Inc. will discuss Achieving Excellence in Production Optimization;
- **Dr. Fred Aminzadeh**, University of Southern California will present Induced Seismicity and Hydraulic Fracturing;
- **Dr. Victor Ziegler** from California Resources Corporation will discuss Thermal EOR: Past, Present and Future;
- **Dr. Norman Morrow** of the University of Wyoming will discuss the Low Sal Waterflooding.

This year’s event will have a very diverse program of technical papers ranging from success stories of independents reviving idle wells, techniques for handling complex oil and gas data systems and new technologies addressing some of the most challenging development aspects of unconventional resource plays.

The technical program is exciting and rewarding and we look forward to your participation at the Western Regional Meeting to be held **April 27–30, 2015**, at the Hyatt Regency Orange County Hotel, Garden Grove, California.

Andrei Popa

Program Chair, 2015 Western Regional Meeting
This month’s spotlight member worked outside of the oil industry during his professional career, but efforts in his second career in academia will help cultivate technical talent locally. Meet Paul Blake, Associate Professor of Engineering and Energy Technology at Taft College.

SPE SJV: What led you to become a member of SPE?

Paul: When I started at Taft College, I identified the professional organizations that worked within the community and SPE was one organization that continually came up. Being new to the industry, I wanted to learn all that I could about it, so I joined SPE. Also, I was looking for an avenue to share what we are doing at Taft College. In a very short time, I really appreciate the services that SPE provides to students through scholarships and sponsoring events like Engineering Day. Of the SPE members I have met, I consistently see a desire to help others. I must say, well done, and thank you.

SPE SJV: Tell us about your career in industry prior to Taft College.

Paul: I graduated with a degree in Engineering Technology from Brigham Young University and an MBA in Engineering Management at University of Dallas. I worked for 10 years at Texas Instruments in Dallas TX after college. In that time, I got to know Stratasys, a small high tech company developing 3D Printing technology. I worked for Stratasys in Minneapolis, MN for 15 years as an engineering manager where we developed a line of 3D Printers that students and professionals use to improve their mechanical designs. I feel fortunate for always being able to work in environments where I had the opportunity to push the envelope in technology.

SPE SJV: What brought you to Taft College?

Paul: After retiring, we came to California to be near my wife’s family. I have always wanted to help others and give back to the industry that has given so much to me. At the same time I was settling in Bakersfield, Taft College was looking for someone to build the engineering and assist in the energy technology programs. I am very fortunate that that I was hired and am able to build a program that enables young men and women contemplating a STEM career to start on a path that can change their lives.

Continued Next Page
SPE SJV: Are there any changes you would like to see?

**Paul:** Companies that hire engineers directly from college typically have their own in-house training programs that bring them up to speed on their businesses and processes. I understand that companies need these programs, but have always been frustrated that industry spends so many resources in training new hires. I would like to see if we can get engineering students better prepared to start their careers and reduce the need or at least length of these programs.

SPE SJV: Tell us a little about the new engineering program at Taft College?

**Paul:** The engineering program was officially started in the Fall of 2014. The college offers an AS in Engineering providing students the opportunity to complete their lower division math, physics and engineering courses. It has been designed to provide seamless transfers into CSUB (and other CA public universities) to complete their engineering degrees. Our purpose is to develop and keep our local talent working...
Lookback for February 2015

Subsurface Study Meeting: “Interwell Tracers – An Effective Surveillance Tool” by Swathika Jayakumar from Protechnics. Swathika (Left), Tom Hampton (Right)


Cenk Temizel, Aera Energy SPE Young Professional Chair.
Lookback for February 2015

SPE SJV YP Event-“Status of Heavy Oil Recovery and Way Forward” by Dr. Babadagli. February 4th 2015.

“New Regulatory Fronts and How We can Work in The Challenging Paradigm” by Jesse Frederick, WZI Inc. February 19th 2015. Jessi Frederick (Right), Pam Willis (Left).
More than 470 high school students from 24 different high schools in Arvin, Bakersfield, Shafter, Taft, and Wasco attended this year’s event. There were 17 different exhibitors representing different local companies, organizations, and disciplines.
"Engineering New Horizons"

Engineering Day, February 27, 2015.

Halliburton

California Resources Corp.

San Joaquin Geological Society

Schlumberger
There were 11 speakers discussing various aspects of engineering to introduce engineering as a career choice and answer their questions in helping them recognize "Engineering New Horizons"!

"Engineering New Horizons"

Engineering Day, February 27, 2015.

There were tours of 6 labs on CSUB campus, introducing the students to hands-on application of science.
"Engineering New Horizons"

Engineering Day, February 27, 2015.

Lunch for 470 students & volunteers was provided by Halliburton.

Many thanks to CSUB for hosting Engineering Day, and for all of the volunteers who helped make this a great success in introducing 470 High School Students to the Engineering!
Announcing the SPE SJV Section Monthly Networking Bash

The March Sponsor is

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 Matthew Minemier @ mminemier@chevron.com or 661-529-0597

Thursday, March 26th, 2015
5:30-7:30 PM
Location: TBD
The SPE SJV Section would like to thank KUDU for sponsoring the February Networking Bash!

We are always looking for companies or individuals that would like to sponsor this event. For additional information please contact

Matt Minemier
@ 661-529-0597

A Schlumberger Company
# SJV SPE Board of Directors
## 2014- 2015

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<thead>
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SJV SPE Board of Directors
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Dear Potential Sponsor,

We are proud to announce the 11th annual SPE Golf Tournament to be held on April 10th, 2015 at Sundale Country Club. Just like last year’s tournament, we are going to just one morning flight. This will shorten the day for our hole sponsors, and hopefully allow more time for the golfers to spend at your hole, by not being rushed. Our intent is to have an “early bird” registration for SPE members and sponsors only for the first 3 weeks. We believe the tournament will sell out during this period since we are only doing the one flight. We want to include in this “early bird” registration, the logos of our sponsors, and allow them to register also, so the committee needs a response as soon as possible on your intent to sponsor this tournament or not. By simply replying to this email your intent (yes or no), and what level of sponsorship you intend to do (Platinum, Gold, or Silver), will allow the committee to get your logo on the registration AND get a link to sign up a foursome for the tournament.

A great deal of the success of these events can be attributed to the contributions of tournament sponsors in the form of cash donations, prizes and great food. All proceeds from the golf tournament will fund programs that preserve our professional standing and oil field heritage within our community, including National Engineering Week (to be held at CSUB), industry lecture series (including SPE distinguished lecturers), continuing education courses, and scholarship programs to support college engineering and oil related major students. Last year alone our local chapter of the SPE gave our community approximately $50,000 in scholarships to deserving students. We realize that this is a difficult year for everyone. Requests for sponsorships and donations are approached by your company frequently and we realize that you have to make choices and use discretion with your allocated funds. We hope you choose to participate with the SPE, as all of the proceeds from the tournament go directly to our local oil industry promotion, and our local students.

We are inviting local companies to sponsor this event through three levels of sponsorship: Platinum ($1500), Gold ($1000), and Silver ($500). Please see the benefits of each sponsorship level at the end of this letter. In addition, companies or individuals that would like to advertise through donation of raffle prizes and registration items are also welcomed. This year’s golf tournament promises to be a premier event with high participation. Your generosity will be visibly acknowledged and announced at the awards and raffle event following the tournament. Commemorative plaques will also be given to all first time sponsors.

If you’re willing to sponsor, please by return email, confirm your participation and I will direct you on how to make payment (via PayPal) and how to register your team (if you wish to play). Also, if you have a good quality logo for our registration (jpeg format), please attach and we will use.

We sincerely appreciate your support,

Tax ID: 75-2001539

The 11th Annual SPE Golf Extravaganza Committee
Scott Myers CESI Chemical 661-328-6111 smyers@flotekind.com
Marc Bonnet Aera Energy 661-342-7174 mbonnet@aeraenergy.com
Duane Johnston CRC 661-303-8709 Duane.Johnston@crc.com
John Gatlin SLB 661-864-4709 jgatlin@slb.com
Keith Kostelnik CRC 661-889-0468 keith.Kostelnik@crc.com
Pam Willis Aera Energy 661-717-3482 PTWillis@Aeraenergy.com
2015 SPE Golf Tournament
Sponsorship Information

PLATINUM SPONSOR - $1500
- Company name in SJV SPE Newsletter for 1 year
- Allowed “Early Bird Registration” for 2 teams (additional payment required)
- Special acknowledgement in tournament brochure
- Special acknowledgement at post-tournament awards and raffle
- Special appreciation plaque (First Time Sponsors Only)
- One Hole on the Course to use for Promotion or to hold an event at that hole of your choice (closest to pin, long drive, second shot closest to pin, etc.)

GOLD SPONSOR - $1000
- Company name in SJV SPE Newsletter for 6 months
- Allowed “Early Bird Registration” for 1 team (additional payment required)
- Special acknowledgement in tournament brochure
- Special acknowledgement at post-tournament awards and raffle
- Special appreciation plaque (First Time Sponsors Only)
- One Hole on the Course to use for Promotion or to hold an event at that hole of your choice (closest to pin, long drive, second shot closest to pin, etc.). Hole selection is after Platinum Sponsors choices are made.

SILVER SPONSOR - $500
- Company name at sponsor hole
- Allowed “Early Bird Registration” for 1 teams (additional payment required)
- Acknowledgement at post-tournament awards and raffle
Dear Colleagues,

We invite you to attend the 2015 SPE Western Regional Meeting, 27 – 30 April at the Hyatt Regency Orange County Hotel, Garden Grove, California, which is less than 10 minutes’ drive to Disneyland, Anaheim USA.

This year we have an exceptional and diverse program covering thermal, conventional and unconventional operations from Alaska to California. In addition to the 84 Technical presentations, the conference program includes 6 short courses and 3 Field Trips. 84 Technical presentations will be delivered by colleagues from California, Texas, Canada, Norway, Alaska, Pennsylvania and more. The program also includes an oil industry panel discussion which will present the views of industry leaders from several major operating and service companies.

The WRM 2015 program includes two former SPE presidents who will be teaching and sharing their experiences as well as a Keynote Address by the current 2015 SPE President, Helge Haldorsen. Helge will deliver the key note luncheon speech and handout the Regional Awards along with our Regional Director, Tom Walsh.

Given the diversity of technical topics and the presence of top talent within our industry, we hope that you will actively plan to participate in this year’s Western Regional Meeting.

The Conference and Program committee look forward to seeing you all at the event.

Sincerely,

Baldev Gill  
City of Long Beach  
Co-Chairperson

Ted Frankiewicz  
Spec Services  
Co-Chairperson

Andrei Popa  
Chevron  
Technical Chairperson

Registration for 2015 Western Regional Meeting is Now Open!  
Click Here for Early Registration (through March 18th)

Hotel Website and Address:  
Hyatt Regency Orange County  
11999 Harbor Blvd  
Garden Grove, CA 92840, US
# SPE Western Regional Meeting

27–30 April 2015  
Anaheim, California, USA

## Mon., April 27th

**Short Courses 8am to 5pm**

1. "Thermal Oil Recovery" by Kovscek and Castanier  
2. "Overview of Heavy Oil Recovery" by Behrooz Fattahi  
3. "Monterey Formation: Opportunities for Exploration and Development" by Don Gauthier

**3 Field Trips**  
08.00am-01.00pm  
- THUMs Islands – Island White Tour – Hosted by Uduak Ntuk – City of Long Beach, Gas and Oil Department  
- Signal Hill Petroleum (SHP) – Urban Drilling Operations hosted by Devon Shay SHP  
- Billion Barrel Bike Ride – Bike Ride Across the Long Beach Area Oil Fields – Hosted by John Jepson, City of Long Beach, Gas and Oil Department  
07.00pm–09.30pm Ice Breaker

## Tue., April 28th

**Short Courses**

1. "The Digital Engineer and the Unconventional Digital Oil Field" by Jim Crompton  
2. "Hydraulic Fracturing" by Mohabbat Ahmadi  
3. "Integrated Waterflood Asset Management" by Ganesh Thakur

**Student Paper Competition – Lead Co-coordinators Iraj Ershaghi and Uduak Ntuk**

- 08.30am-10.00am BS Division  
- 10.30am-12.30am MS Division  
- 12.30pm-1:30pm Lunch  
- 01:30pm-3:30pm PhD Division  
- 06:00–08:00pm Dinner Banquet and awards ceremony  
- 07:00–09:30pm Ice Breaker

## Wed., April 29th

**Technical Programs**

- 07.45am-09.45am Oil Industry Panel Discussion from Alaska to California  
- 10.00am-11.40am 01 Data Driven Analytics  
- 10.00am-11.40am 02 Reservoir Description and Dynamics  
- 10.00am-11.40am 03 Fracturing Technologies I  
- 11.45am-01.15pm Keynote/Awards Luncheon  
- 01.30pm-05.00pm 04 Health, Safety and Environment  
- 01.30pm-05.00pm 05 Drilling I  
- 01.30pm-05.00pm 06 Production Operations  
- 06.00pm-09.00pm Ice Breaker

## Thu., April 30th

**Technical Programs**

- 07.45am-09.45am Title to be Confirmed  
- 10.00am-11.40am 07 Facilities & Water Management  
- 10.00am-11.40am 08 Digital Energy and Integrated Solutions  
- 10.00am-11.40am 09 Drilling II  
- 11.45am-01.15pm Closing Luncheon  
- 01.30pm-05.00pm 10 Fracturing Technologies II  
- 01.30pm-05.00pm 11 Heavy Oil Recovery Technologies  
- 01.30pm-05.00pm 12 Improved Oil Recovery: Low Salinity Brine, Waterflooding and Reservoir Definition Using History Matching
Many aspects of liquids-rich development remain experimental, even controversial, and the pace at which they are evolving is remarkable. At this workshop we will continue pushing the subject forward, discussing technological advances that are unfolding, and those that are still needed.

**Topics of Interest will include:**

- Understanding fluid flow and fluid-rock interaction within ultratight formations
- Characterization of relevant rocks and fluids
- How liquids-rich production systems change with time
- Surveillance techniques to enhance our understanding of dynamic system behavior
- Predictive modeling and reserves determination
- Finding the right completion and stimulation designs for a particular formation and well spacing
- Reliable and socially sustainable development of liquids-rich resources on a massive scale
- Examples from active plays including the Permian Basin

**If the development of liquids-rich resources is important to you, mark your calendar for May 2015 to be part of an opportunity to improve the development of your resources.**

[http://www.spe.org/events/15apve/](http://www.spe.org/events/15apve/)

**Register Today**

**Deadline : Early Registration deadline is 17 April.**

**Venue**

**Terranea Resort**

6610 Palos Verdes Drive South  
Rancho Palos Verdes, CA 90275  
Tel: 310.265.2800

31 May–1 June 2015 | Newport Beach, California, USA

You are invited to apply for the SPE Forum, on Flow Assurance–The Future State of the Art.

The field of flow assurance has grown in concern to all operators. This forum will focus on the major issues in flow assurance, which draws expertise from a diversity of disciplines, and deals with mitigating substances which can block pipelines, including hydrates, waxes, scale, sand, and asphaltenes.

The deposition and blockages by these substances are regulated to some degree by multiphase flow which frequently involves at least three phases: gas, liquid hydrocarbon, and an aqueous phase, in addition to one or more of the above five solids.

This forum will consider parallels developing in other flow assurance areas, e.g. waxes, scale, sand, and asphaltenes.

Application deadline

1 April

Register Today

What are forums?

SPE Forums are unique, by-invitation-only SPE events that bring together top technologists, innovators, and managers to address a specific industry challenge. Participants are encouraged to come prepared to contribute their experience and knowledge, rather than be spectators or students.

Get Involved

SPE Forums offer an exclusive opportunity to discuss complex industry challenges with top technologists, innovators, and managers. Learn more about SPE forums online.

View the forum website for more details on this event.

A written summary will be prepared and distributed to participants after the forum at the discretion of the program committee and SPE approval.
Horizontal Well Completions

2 June 2015 – 8:00 AM – 5:00 PM

University of Phoenix
4900 California Avenue
Bakersfield, CA 73309

This course develops strategies for completing horizontal wells. It covers both cased-hole and open-hole configurations, either with or without sand control. Participants will learn the applications and dynamics of horizontal wells, including drill-in fluids, hole displacement, cementing, perforating, and stimulation. They will also learn the guidelines for selecting stand-alone screens and executing horizontal gravel packs.

Topics Include:

- Completion options
- Cased-hole horizontal completions
- Perforating and stimulating horizontal wells
- Open-hole horizontal completions
- Drill-in fluids
- Zonal isolation and inflow control
- Displacing the drill-in fluid

Learning Level - Introductory/Intermediate

Course Length - 1 Day

Why You Should Attend - Horizontal drilling was a step-change in the industry, but the technology is more expensive and riskier than drilling vertical or deviated wells. As a drilling, completion or reservoir engineer, it is important for you to understand the many challenges and options of horizontal drilling.

Who Should Attend - This course is designed for drilling, completion and reservoir engineers, and for service-company personnel involved with planning, drilling, completing and operating horizontal wells.

CEUs - 0.8 CEUs (Continuing Education Units) awarded for this 1-day course.

Instructors

Sudiptya Banerjee is a completion engineer within the Baker Hughes' Center for Technology Innovation who specializes in inflow control technology and reservoir simulation. He began his career working as a cementing and stimulation field engineer for Schlumberger well services, living and working in locations ranging from Western Oklahoma to Saudi Arabia. Since joining Baker Hughes, Banerjee focused on new product design and global technical support, developing and launching products ranging from premium sand control screens to new hybrid geometry inflow control devices. He holds three patents related to adaptive inflow control alone. Banerjee is an author on a number of papers related to completions in a sand control environment and presented at the Sand Control Workshop in Santa Marta, Colombia.

Banerjee received his BS in chemical engineering from Case Western Reserve University and MS in petroleum engineering from the University of Alaska Fairbanks.

Aaron Burton has most recently been a completion manager at Baker Hughes for the unconventional resources team, a group primarily focused on the completion of shales and similar unconventional plays that require multistage hydraulic fracturing. During his tenure in operations, he has held the roles of field engineer, operations coordinator, and district engineer. He has completed wells in several unconventional plays in North America, including the Bakken, the Marcellus, and the Lower Huron.

Burton holds a BS in mechanical engineering from Mississippi State University.

Find out more and register at http://www.spe.org/training/courses/HWC.php
Two introductory 1-day courses by the same instructor; Take one, the other, or both.

“Drilling Engineering Overview for Non-Drilling Engineers”

Instructor: Ms. Val Lerma, P. E.

Date: August 18th, 2015 (8:00 am to 5:00 pm)

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

Announcement:

SJVSPE is proudly sponsoring this course, designed as an introduction to basic drilling concepts. Students will leave the course with a basic understanding of the processes involved in the drilling of oil and gas wells.

Questions:

Please call Craig Pauley @ 661-391-4360 (office); 661-496-0707 (mobile) or e-mail Craig-Pauley@chevron.com if you have questions or need additional information.

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 course is limited to 30 students. The price of this course for SPE members and non-members is $550 per person. Lunch, including sodas and dessert, is included.

PayPal Link: Drilling Engineering Overview

RSVP: Please RSVP to CraigPauley@chevron.com

Target Audience:

Drilling is a complex process, involving many different technical professionals and functions. Understanding how a well is drilled is important for many technical professionals working within the oil and gas industry. This course is intended for individuals with little to no prior drilling experience, who will benefit from learning more about the drilling process. The target audience for this course includes engineers, geologists, administrative staff, environmental specialists, legal professionals, analysts, service and sales personnel, landmen, and entry-level drilling personnel.

Course Outline:

Laying the Groundwork
- People
- Permits
- Rig Components

Drilling Fluids
- Functions
- Properties
- Treatment and Diagnostic Tools
- Solids Control Equipment

Cement
- Language of Cement
- Tools
- Additives
- Types of Cementing Procedures
- Calculations

Bits
- IADC Code
- Rate of Penetration
- Grading
- Economics

Casing Design
- Types and Connectors
- Design Criteria
- Sizes and Depths

Directional Drilling
- Overall Planning
- Deflection Tools
- Directional Measurements

BP Deepwater Horizon Investigation
- Cement
- Well Control
- Equipment Failure
“Drilling Engineering Overview for Non-Drilling Engineers”

Instructor Biography:

Val Lerma has 30 years’ experience in the oil and gas industry, and is a California registered professional petroleum engineer. Upon graduating with her BS PTE Magna Cum Laude from University of Southern California, Ms. Lerma worked for Chevron as a drilling foreman, drilling engineer, reservoir engineer, and development planning engineer for various L.A. Basin and Ventura onshore and offshore fields. She subsequently spent 15 years with Troy Consulting working on production, reservoir, and drilling engineering projects for PXP, Chevron, Aera, Veneco, Santa Fe Resources, USC, and others in the L.A. Basin, San Joaquin Basin and Ventura fields.

For eight years, Ms. Lerma has worked for Orchard E&P, LLC and Orchard Petroleum, Inc. As Engineering Manager, Ms. Lerma managed drilling programs at Belridge, Sac Basin, Lost Hills, and Belgian Anticline, including services and rig bid requests and evaluation, AFE and drilling program preparation, ongoing efficiency analysis, and troubleshooting. She prepared/coordinated permit approval for drilling, CEQA approval (California Environmental Quality Act) for drilling, injection project (UIC) permits for disposal (Tulare) and waterflood (Diatomite). She managed compliance with OSHA and Cal OSHA regulations including preparation and maintenance for IIPP (Illness, Injury Prevention Plan), maintenance of OSHA 300 log, online training, field inspections, quarterly meetings, pre-job safety meetings, Spill Prevention Plan, Hazardous Materials Plan, Dust Control Plan. She also evaluated properties for acquisition.

She then served as President and was on the Board of Directors (2008-2012) of Orchard Petroleum until the company was sold in June, 2012. Subsequently, Ms. Lerma served as Business Development Manager for the newly formed Orchard E&P, LLC. She joined InterAct, an engineering service company, in November, 2014, and currently serves as their Engineering Manager.

Ms. Lerma also has her MBA from California Lutheran University and her MS PTE from University of Southern California. She spent seven years teaching graduate and undergraduate Drilling Engineering at University of Southern California through the Distance Educational Network for worldwide students. She has participated in PTTC and SPE seminars and technical meetings, authored several technical papers, and served on the SPE board in Ventura.

Special Requirements: Participants should bring a standard calculator
Two introductory 1-day courses by the same instructor; Take one, the other, or both.

“Primary and Remedial Cementing Equipment, Techniques, and Evaluation”

Instructor: Ms. Val Lerma, P. E.

Date: August 19th, 2015 (8:00 am to 5:00 pm)

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

Announcement:
SJVSPE is proudly sponsoring this course, designed as an introduction to basic cementing concepts. Cementing is used in the oil and gas industry to isolate zones (which prevents migration of fluids), to seal and protect casing, to control well formation pressure, and to plug and abandon wells. Attendees will leave the course with a basic understanding of both primary and remedial cementing methods. Participants will also have a basic understanding of cement evaluation tools and methods.

Questions:
Please call Craig Pauley @ 661-391-4360 (office); 661-496-0707 (mobile) or e-mail Craig-Pauley@chevron.com if you have questions or need additional information.

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 course is limited to 30 students. The price of this course for SPE members and non-members is $540 per person. Lunch, including sodas and dessert, is included.

PayPal Link: Primary and Remedial Cementing
RSVP: Please RSVP to CraigPauley@chevron.com

Instructor Biography:
Ms. Lerma’s biography is presented with the “Drilling Engineering Overview for Non-Drilling Engineers” class.

Special Requirements: Participants should bring a standard calculator

Course Outline:
- **Basics:** Cement objectives; Properties of cement; Testing; Cement additives
- **Types of Cementing:** Primary; Stage cementing; Squeeze cementing; Balanced plug; Top job
- **Cement Calculations:** Cementing terms; Additives and mix water; Primary cement volumes; Displacement volumes; Balanced plug calculations
- **Cement Equipment:** Surface equipment; Casing jewelry; Interface with rig equipment
- **Best Practices:** Centralization; Mud conditioning; Annular fluid velocity; Pipe movement; Spacers and flushes
- **Case History:** Lost Hills field-intermediate and production casing
- **Cement Evaluation:** Pressure test; Water shut off tests; Temperature surveys; CBL
- **Summary and Conclusions**

Target Audience:
Understanding cementing concepts is important for many technical and non-technical professionals working within the oil and gas industry. This course is intended for individuals with little to no prior cementing operational knowledge, who will benefit from learning more about the cementing process. These would include engineers, and other oil & gas professionals, who require a fundamental overview of cementing operations.
Production Decline Analysis—Vertical and Horizontal Wells
2-3 September 2015 :: 0800–1700

University of Phoenix
4900 California Avenue
Bakersfield, CA 93309

Attendees of this course, offered in both 2-day and 3-day versions, will learn the Arps equations, the effects of layering and changing fluid properties on the Arps exponent, and comparing production characteristics of horizontal to vertical wells. Interpretation of performance curves to determine drive mechanisms, recovery efficiency, and effects of operations will also be covered.

Topics Include:

- The utility of the quadratic equation
- The Fetkovich type curve approach
- The Blasingame type curve approach
- The Poe type curve approach for horizontal wells

The participant will become acquainted with the Arps, Fetkovich, Blasingame, and Poe decline curve analysis techniques. Assumptions and limitations of each analysis method are covered. Example and work problems are included to amplify salient points.

Learning Level: Intermediate

Course Length: 2 Days

Why Attend? You will learn the meanings and limitations of the Arps exponential, hyperbolic, and harmonic equations.

Who Should Attend? Professionals who work in production data processing as it relates to reservoir description and dynamics.

Instructor:

Steven W. Poston
is a professor emeritus at Texas A&M University with over 45 years’ experience in the petroleum industry. His vast career includes reservoir engineering and decline curve analysis, teaching, and consulting in the US, Middle East, Africa, Latin America, and Russia.

Poston is a member of SPE and has served on numerous committees including the committee on rewriting the seven-volume Petroleum Engineering Handbook. He co-authored many technical papers and presented over 41 at various university and technical meetings. He is also co-author of Overpressured Gas Reservoirs with Robert R. Berg and Analysis of Production Decline Curves with Bobby D. Poe Jr.

Poston received his BSc and ME degrees in geological engineering and his PhD in petroleum engineering from Texas A&M University.

Find out more and register at http://www.spe.org/training/courses/PND.php
Basic Pressure Transient Test Analysis

26-27 Oct 2015 :: 0800–1700

University of Phoenix
4900 California Ave.
Bakersfield, CA 93309

This course teaches the systematic analysis and design procedures for testing pressure buildup and flow tests. Example applications focus on identifying the appropriate reservoir model, estimating effective formation permeability, and quantifying damage or stimulation.

Topics include:
- Semilog analysis methods
- Type curves and diagnostic plots
- Gases and multiphase flow
- Average drainage area pressure
- Horizontal wells
- Well test design

At the end of the course, participants should understand:
- Naturally-fractured reservoirs
- Hydraulically-fractured wells
- The effects of input data errors

Learning Level: Introductory
Course Length: 2 Days

Why Attend? This course will provide you with an understanding of the fundamentals of buildup and flow test analysis—an understanding that will provide insight into the strengths and limitations of the methodology used in modern commercial pressure-transient test analysis software.

Who Should Attend: This is a basic course in well test analysis and design, suitable for engineers and physical scientists who have little if any background in well test theory or practice. It focuses on applications rather than theory.

CEUs: 1.6 (Continuing Education Units)

Find out more and register at http://www.spe.org/training/courses/BPT.php

W. John Lee

holds the Hugh Roy and Lillie Cranz Cullen Distinguished University Chair at the University of Houston’s petroleum engineering program. Prior to this, Lee held the L.F. Peterson Chair in petroleum engineering at Texas A&M University where he is now professor emeritus. He was the former executive vice president of S.A. Holditch & Associates, where he specialized in reservoir engineering for unconventional gas reservoirs. He served as an Academic Engineering Fellow with the US Securities and Exchange Commission (SEC) in Washington during 2007–2008, and was a principal architect of the new SEC rules for reporting oil and gas reserves.

Prior to beginning his career in academia, Lee managed Exxon’s Major Fields Study Group. He has written many technical papers and three SPE textbooks: Well Testing, Gas Reservoir Engineering, and Pressure Transient Testing. Lee is an Honorary Member of SPE and a member of the US National Academy of Engineering. He received his BChE, MS, and PhD degrees in chemical engineering from the Georgia Institute of Technology.
Engineer, Production – Bakersfield, CA

Seneca Resources Corporation, the oil & gas exploration and production subsidiary of National Fuel Gas Company (NYSE: NFG), is currently seeking an Engineer, Production at its West Division office in Bakersfield, CA.

The Engineer, Production will serve as an integral member of the Production team with responsibilities including, but not limited to, the following:

• Direct well testing effort with support from Operations team
• Review well tests and temperatures, and ensure timely gathering and accuracy
• Propose steam cycle candidates and help manage steam distribution to maximize production
• Propose changes to thermal projects as necessary based on data from field
• Review all aspects of rod pumping, including POC operation and Theta software for maximization of fluid production
• Coordinate and lead regular well performance reviews and steamflood performance
• Work with Engineering team and Operations team to ensure proper execution of recovery strategy
• Improve implementation of Wellview and OFM software packages throughout Division
• Develop recompletion and workover programs, including procedures and cost estimates
• Work with geologists on completions of new wells
• Ensure UIC projects are in compliance with DOGGR regulations

This position requires a Bachelor’s Degree in Engineering. Candidates with two (2) or more years experience in a production engineering capacity are preferred. Candidates with five (5) or more years in a production engineering capacity are highly preferred. Experience in the San Joaquin Valley is highly desired. Good interpersonal communication skills are necessary in this role. Attention to detail and the ability to be flexible and work in a team environment are essential.

The successful candidate must be authorized to work in United States of America.

All candidates who wish to be considered for this position should visit www.natfuel.com/careers for information on submitting a resume.

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Performance tests indicate that the Gas Handler Series is able to process up to 65% free gas without locking at extremely low intake pressures. Standard pump stages can only handle one fourth of this amount of free gas before locking. The Gas Handler Series is designed to reduce production disruption and overheating of the ESP motor caused by gas locking.

Applications

- Oil producing wells with high gas and low intake pressures
- Electric submersible pumps unable to separate gas prior to entering the pump
- Electric submersible pumps utilizing gas separators in extremely gassy wells
- Subsea oil wells or wells with non-vented packers
- Abrasive oil well applications
- Steam flood applications including SAGD

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
COURSE OBJECTIVES
This 3-day thermal recovery course is designed to provide an understanding of heat and fluid flow in heavy oil reservoirs, prediction of thermal performance, and a review of field experience. Special attention is paid to current technologies such as operation of mature steamfloods, horizontal well applications, SAGD, VAEF, etc.

The course is designed for reservoir and production engineers who will also be useful for geologists, technicians and managers working in heavy oil production.

The participants will receive a textbook, Bill's book on heavy oil and bitumen recovery, and Prato's book on thermal recovery. Easy-to-use PC programs and spreadsheets are provided to help the participants understand thermal processes and make engineering predictions.

TEXTS
Participants will receive a comprehensive, revised manual, Bill's book on heavy oil and bitumen recovery, and Prato's book on thermal recovery.

COMPUTER PROGRAMS
IBM PC computer programs in Visual Basic and Excel workbooks will be provided to estimate steam zone development, heat loss, cyclic steaming performance, pressure drop in steam lines, steam flooding performance prediction, SAGD calculations, etc.

LOCATION & SCHEDULE
The course will be held at Four Points Sheraton Inn, 5101 California Avenue, Bakersfield, California 93309; phone (661)325-9700. Participants are requested to make their own hotel reservations. The daily schedule will be 8:30 am to 11:30 am and 1:00 pm to 4:00 pm, Monday to Wednesday. A 2-hr Computer Workshop is scheduled for Tuesday afternoon, after the class.

RELATED COURSES
A course on Heavy Oil Recovery is scheduled for Calgary. For courses on EOR and Reservoir Simulation, please contact Dr. Farouq Ali for details. Phone: (780)461-2944, e-mail: smfarouq@gmail.com

COURSE OUTLINE
- Heavy oil resources and recovery technology; status of thermal recovery
- General aspects of oil recovery; success with EOR, technology and economics
- Steamflood mechanisms, recovery predictions, field experience and techniques
- Steamfloods, heat management
- SAGD: Steam-Assisted Gravity Drainage and its variations, application, experience
- Cyclic steaming theory and practice, with emphasis on California experience
- High pressure air injection and its variations
- Horizontal well applications to thermal and non-thermal heavy oil recovery
- Thermal well completion, operation, wellbore heat losses, heat management
- Steam generation and injection; design and monitoring of thermal pilots
- Thermal simulators and their effective use
- Computer workshop

IN-HOUSE TRAINING
This course, as well as several others, are available for in-house training of engineers, field personnel, and managers. The length and contents of the courses can be tailored for specific needs.

THERMAL OIL RECOVERY
May 11-13, 2015 (M, Tu, W)
BAKERSFIELD, CA

INSTRUCTORS
S.M. Farouq Ali
Farouq Ali has taught similar short courses to over 8000 industry participants during the past 52 years. He specializes in thermal recovery and simulation. Farouq Ali has written three books and over 500 technical papers on these subjects. He has worked on more than 350 oil recovery projects in various countries. Among many awards, in 1997, he received the Society of Petroleum Engineers' Thermal Recovery Pioneer award. In 2014, he received SPE's Honorary Member award. He is a member of the U.S. National Academy of Engineering.

Jeffry A. Jones
Jeff Jones is a Vice President with E & B Resources, in Bakersfield, and has over 44 years' experience in all facets of the thermal recovery engineering. Jeff has worked on steamflood, cyclic steaming, and in-situ combustion projects, and has experience with reservoir, production, and facilities engineering. An accomplished programmer, he has published many technical papers and holds a number of U.S. patents on thermal recovery related devices. Jeff received Society of Petroleum Engineers' Production Engineering Award in 2002. He was a SPE Distinguished Lecturer for 2004-2005. He received the Society of Petroleum Engineers' Thermal Recovery Pioneer award in 2010.

REGISTRATION
THERMAL OIL RECOVERY
May 11-13, 2015 (M, Tu, W)
BAKERSFIELD, CA

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Name____________________________________
Company__________________________________

Address,__________________________________
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e-mail_______________________________

Registration fee is $3,300.00 (check payable to H.O.R. Heavy Oil Recovery Technologies Ltd.). Please fax or scan and e-mail the registration information.

Check enclosed
Bill my Company.

Attention:____________________________________

Send to:
S.M. Farouq Ali
H.O.R. Heavy Oil Recovery Technologies Ltd.
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Edmonton, AB T6E 5Y2, Canada
Tel (780)461-2944
e-mail: smfarouqali@gmail.com

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