February 19, 2015 General Section Meeting

Topic: New Regulatory Fronts and How We Can Work in The Challenging Paradigm

Speaker: Jesse Frederick, WZI Inc.

Date: Thursday, February 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 February 17th, 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=_s-xclick&hosted_button_id=QMJR3PFFLA4ES

Non-Members
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=3WJZCZWGVF24W

OR Email Pamela Willis at PTWillis@aeraenergy.com or Call (661) 665-5449

Walk-ins and attendees with email/phone RSVP must pay by cash at the door. Credit cards accepted at the door. RSVP no shows may be billed.

ABSTRACT:

Currently, California environmental regulations are being rewritten to take into account Global Climate Change, Drought Conditions, concerns about oilfield production methods.

- Federally, the Bureau of Land Management has the Record of Decision for the new Regional Management Plan which drives their new Development Guidelines.
- California Air Resources Board with the California Public Utilities has established Renewable Portfolio Standards, Cap and Trade and Low Carbon Fuel Standards.
- The legislature thorough SB4 directed DOGGR to review injection activities and fracking in particular and DOGGR has issued their EIR.
- Kern County is in the middle of writing an Environmental Impact Report to redefine their local permitting process.

This presentation addresses each of the new regulatory fronts and discusses the technical topics driving the process as they relate to day-to-day in-field activity (present and future) and how we can work in this new challenging paradigm to safely meet our production goals.

SPEAKER:

Jesse Frederick is Vice President of WZI Inc. He has over 20 years of experience in the field of electrical energy production and has developed and permitted over thirty power production projects throughout the world, from initiation to various stages of development, including financial closing. He has extensive experience in the regulatory demands of energy production and has been involved in implementing the regulations stemming from electrical deregulation in California and neighboring states. Mr. Frederick is a recognized expert in the field of environmental compliance strategy for the electrical production industry and has published papers on the subject as well as serving as an editor for a Society of Petroleum Engineers Monograph on environmental issues for the oil and gas industry.

Mr. Frederick received a B.S. in Chemical Engineering from the Rose-Hulman Institute of Technology and is a State of Texas Registered Professional Engineer.
Dear Members

So far 2015 promises to be a year filled with challenges as we adapt to the current oil price environment. As a result, there will be a lot of efforts and opportunities to improve and optimize the way we do business. SPE hopes to aid in these efforts by providing our members with opportunities to learn and share across the industry.

This month the SJVSPE Community Outreach is hosting the 2015 Engineering day at CSUB. The theme this year is “Engineering New Horizons”. The event will be on February 27th. For more information contact our Community Outreach Direction Tom Hampton at tjhampton@aeraenergy.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 February

There are several conferences and workshops being held this month:


Sincerely

Your SJV SPE 2014-2015 Chair,
Blythe Johnson
February 26, 2015 Subsurface Study Meeting

Topic: Interwell Tracers – An Effective Surveillance Tool

Speaker: Swathika Jayakumar

Date: Thursday, February 26th 2015 @ 11:30 AM

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

Cost: RSVP by 12 noon Tuesday February 24th, Using one of the three options:

Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:

Members $25
Members PayPal Link

Non-Members $30
Non-Members PayPal Link

OR

Email RSVP to Indar Singh at isingh@aeraenergy.com OR Call in to Indar Singh at (661) 665-5243.

Walk-ins and attendees with email/phone RSVP must pay by cash at the door. RSVP no shows may be billed.

Cost: Day of the event (cash only please):

Members: $30
Non-Members: $35

ABSTRACT:

Interwell tracers are an invaluable surveillance tool in Improved/ Enhanced Oil Recovery (IOR/EOR) operations. They are the only direct means of tracking injected fluid movement in a reservoir. The qualitative and quantitative data obtained help understand communication pathways between injectors and producers. The design and operation of any injection program can be modified to optimize resources, increase sweep efficiency and ultimately improving hydrocarbon recovery.

This presentation discusses different kinds of interwell tracers currently available in the market, their field application, the analysis techniques and the data obtained from tracer surveys.

SPEAKERS:

Swathika Jayakumar is a Reservoir Engineer for ProTechnics. She graduated from Texas A&M and has three years of experience with application of polymer gels for conformance control.

Wade Hutchinson is Director, Sales & Marketing for ProTechnics (A division of Core Laboratories). He has over 25 years of experience in stimulation with 18 years specific to completion diagnostic technologies.
PROFESSIONAL SPOTLIGHT

Bailey Brupbacher

This month’s spotlight member is Bailey Brubacher, Business Development Manager for Enviro-Tech Systems. Many of you may recognize him from his presentation at our general section meeting in the fall discussing water treatment technology. This month we get to know more about him personally.

SPE SJV: How did you become part of the oil industry?

Bailey: I was attending college in Louisiana for the second time. I had left college after Hurricane Katrina to help my family rebuild and recover. My friends’ father owned a company that serviced water treatment equipment in the GOM, and I was looking for a summer job. After some safety training, I’m flying on a helicopter for the first time out to an offshore platform. I finished college and obtained a degree in marketing and left the industry. After a number of years I returned to Louisiana. I spoke with Frank Richerand, who is now my boss. He explained how the company grew from a service company into manufacturing water treatment equipment and was looking to expand even further. I decided to return to work for Enviro-Tech Systems.

SPE SJV: What do you enjoy most about your career?

Bailey: Our wells produce tremendous amounts of water and we are in a water poor area with the current drought. My biggest motivation is to push the envelope with what we can do with our processes to generate usable water.

SPE SJV: What brought you to California?

Bailey: After rejoining the company, I spent a few years in technical training including some time in Ireland. I learned everything I could about water treatment. About a year and a half ago, the company decided to open up shop here in Bakersfield, California. I wanted to come to California. I enjoy the mountains and the beaches. With Yosemite, Tahoe, and the beaches all within a few hours’ drive, you can’t beat what California has to offer. There aren’t any mountains in South Louisiana.

SPE SJV: Apart from the outdoors, how else do you spend your spare time?

Bailey: I enjoy food and I discovered that I have a real knack for cooking. I hope someday to open my own restaurant.
March 4, 2015 - SPE Young Professional Event

Topic:  Greenhouse Gas Emissions from Oil and Gas Operations

Speaker:  Prof. Adam Brandt from Stanford University

Date:  Mar 4th, 2015 @ 6pm

Location:  Aera Energy LLC, Room CC50, 10000 Ming 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 3rd, 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 Email Cenk Temizel at ctemizel@aeraenergy.com

Walk-ins and attendees with email/phone RSVP must pay by cash at the door.  Credit cards accepted at the door.  RSVP no shows may be billed.

SPEAKER:

Please click for Prof. Adam Brandt's CV
LOOKBACK for January 2014


SPE Student Chapter volunteering at the Community Action Partnership of Kern (CAPK) Food Bank on January 17, 2015
Biofuels are an alternative to fossil fuels that are produced from fats derived from living organisms. One source of biofuel that is being explored more thoroughly in recent years is microalgae. The bio substance can be turned into crude oil, which can then be used to create biodiesel, biobutanol, biogasoline, methane, ethanol, or jet fuel.

**History**

In 1942, European scientists Richard Harder and Hans von Witsch proposed the mass cultivation of diatoms to produce fat, which was urgently needed because of World War II. Government researchers began exploring algae as a source of fuel in 1978 and continued experiments through 1996.

**Process**

**Algae cultivation**

Algae can be grown under multiple conditions, including those unfavorable to other plants. It can bloom in places where salty water, excessive sun exposure, and lack of vital nutrients inhibit growth of other crops. But the higher the concentration of algae cells, the lower the ability to absorb light. In heterotrophic conditions, the algae can use sugars, organic acids, and other organic carbons as carbon sources, replacing the need for light.

**Converting the algae into crude**

**Fuel production**

Converting wet algal biomass into combustible fuel is a challenge. After the algae is harvested, the biomass is typically processed in a series of steps, which differs based on the species and desired end product. Often, the algae is dehydrated and then a solvent, like hexane, is used to extract energy-rich compounds, like triglycerides, from the dried material. Once extracted, the compounds can then be processed into fuel using standard industrial procedures. For example, the extracted triglycerides are reacted with methanol to create biodiesel via transesterification. Each species contains a unique composition of fatty acids that influences the quality of the resulting biodiesel and thus must be taken into account when selecting algal species for feedstock.

**High temperature and pressure**

An alternative approach employs a continuous process that subjects harvested wet algae to high temperatures and pressures—350 °C (662 °F) and 3,000 pounds per square inch (21,000 kPa). Products include crude oil, which can be further refined into aviation fuel, gasoline, or diesel fuel. The test process converted between 50 and 70 percent of the algae’s carbon into fuel. Other outputs include clean water, fuel gas and nutrients such as nitrogen, phosphorus, and potassium.

**Advantages**

**Versus fossil fuels**

Algae fuel’s carbon footprint is smaller than that of fossil fuels and it is renewable, making it more eco-friendly. Additionally, wastewater is a possible nutrient source for algae, making the use of freshwater less necessary and decreasing, rather than increasing, pollution.

**Versus other biofuels**

When compared to other biofuels, algae has a higher productivity rate, and does not compete with food sources because it does not need arable land to grow and is not a food crop. Microalgae can harvest radiant energy from the sun into valuable products at the expense of inexpensive natural resources like CO2, contributing to global CO2 reduction.

For more info refer to: http://petrowiki.org/Producing_crude_oil_from_algae
The SPE SJV Section would like to thank Schlumberger for sponsoring the January Networking Bash!

We are always looking for companies or individuals that would like to sponsor this event.

Schlumberger

For additional information please contact Matt Minemier @ 661-529-0597

Chevron 13 API Crude Price
(Daily Posted Price)

Source: Chevron California Crude Oil Price Bulletin
# SJV SPE Board of Directors
## 2014-2015

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<thead>
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National Engineers Week

Engineering Day - February 27, 2015
8:00 am to 2:30 pm
Cal State University, Bakersfield
Student Union Building

The Society of Petroleum Engineers, Kern County Superintendent of Schools School-to-Career, and Cal State University, Bakersfield are proud to announce the 15th Annual Engineers Day event offering local high school students the opportunity to find out just what engineers and geologists do. A wide range of representatives from the industry will relate first-hand to students what types of careers are available and offer valuable resources.

The agenda will include an open Exhibition Area of projects, industry demonstrations, hands-on activities, and industry representatives available to answer questions. In addition, presentations will be made describing the growing importance of engineers in the workforce. Other topics include the required skills, proper ethics, and recommendations on internships. A barbecue lunch will be provided by Halliburton. The students will also have an opportunity to tour the CSUB campus.

The SPE is requesting help from industry to make this 15th Annual event a big success. Last year some companies brought in some of their larger equipment for the students to see and lay "hands-on". Based on last year's success we are making an area adjacent to the Student Union building available for just such displays this year as well. Talk to one of us if you have specific questions.

We need three things: Financial donations are needed to help defray the costs of hosting this event; more importantly, exhibitors are needed to show the types of jobs engineers fill and the type of work they do (don't forget the area for large equipment displays) and speakers are needed to make relevant presentations. Demonstrations and hands-on exhibits are the most popular among the students. We are trying to convince students who exhibit prowess in math and sciences to pursue a career in engineering. Industry predictions have shown that as much as 50% of the engineering workforce will retire in the next 4-7 years.

SPE is looking for help in sponsoring this event, and companies interested in setting up display booths. In February 2014, over 500 students and teachers attended the event from all over Kern County. We are expecting similar attendance again this year.

If you would like to take part in this special event, please review the attached forms and/or contact:

Tom Hampton
TJHampton@AeraEnergy.com
Phone: 661-665-5227

Blythe Johnson
BlytheJohnson@chevron.com
661-281-5713

Pamela Willis
PTWillis@AeraEnergy.com
661-665-5449
Booth Exhibitor Application

SPE-SAN JOAQUIN VALLEY SECTION & KERN COUNTY SUPERINTENDENT OF SCHOOLS (SCHOOL TO CAREER) & CAL STATE UNIVERSITY, BAKERSFIELD

ENGINEERING DAY
FEBRUARY 27, 2015

______________________________  ______________________________
Business Name  Type of Business

______________________________  ______________________________
Contact Person  Phone  Email

______________________________  ______________________________
Authorized Signature  Date

APPLICATION DEADLINE: FEBRUARY 4, 2015

Exhibitors are limited to 2 tables (8’ in length) There is no charge for having a booth, but must commit to keeping booth staffed for duration of event (8:00 a.m. – 2:30 p.m.)

Electrical outlet needed?  _____ Yes  _____ No

Number of tables (1 or 2) ______  Number of chairs (1,2,3) ______

Mail or FAX applications to: Tom Hampton
100000 Ming Avenue, Bakersfield CA 93311, Fax: 661-665-5032

Questions? Call or Email Tom Hampton @ (661) 665-5227 or TJHampton@AeraEnergy.com
Pamela Willis @ (661) 665-5449 or PTWillis@AeraEnergy.com

Cal State University Bakersfield, Student Union opens at 7:00 a.m. on event day. All booths should be set and ready by 8:00 a.m.
Sponsorship Form – Engineering Day 2015
FEBRUARY 27, 2015

Name (Company/Individual): ____________________________________________
Address: ______________________________________________________________
Phone: ________________ Email: ________________________________

Sponsorship Amount (check one):

__ $500  __ $750  __ $1000  __ $1500  __ $2,000
_____ Other/Amount

Please make checks payable to: SPE San Joaquin Valley Section
Tax ID = 75-2001539

All sponsors will be recognized on event flyer. Please attach logo or business card.

Thank you for your donation.

Mail or Email to: Tom Hampton TJHampton@AeraEnergy.com
Aera Energy LLC
100000 Ming Avenue, Bakersfield, CA 93311
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 Kovscok and Castanier  
2. "Overview of Heavy Oil Recovery" by Behrouz Fattahi  
3. "Monterey Formation: Opportunities for Exploration and Development" by Don Gautier

**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 Jopson, 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 Ahmad  
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  
- 10.30am-12.30am MS Division  
- 12.30pm-1:30pm Lunch  
- 01:30pm-3:30pm PhD division  
- 05:00–08:00pm 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/

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
B31.3 Process Piping Code

Instructor: Jim E. Meyer, P. E.

Date: March 2nd – 5th, 2015 (8:00 am to 5:00 pm)

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

Announcement:
SJV-SPE, in partnership with ASME, is proudly sponsoring a “B31.3 Process Piping Code” course. This 4-day course is intended to provide an introduction to the ASME B31.3 Process Piping Code.

Questions:
Please call Craig Pauley @ 661-391-4360 (office); 661-496-0707 (mobile) or e-mail CraigPauley@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 price of this course is $1,835 per person. Lunch and beverages are included.

RSVP via PayPal Link: B31.3 Process Piping Code
If you intend to pay for this class in a different manner, please contact CraigPauley@chevron.com

Target Audience:
This course is designed for engineers, managers and quality control personnel who are involved in the design, manufacturing, fabrication and examination of process piping that is being built to the requirements of U.S. Codes & Standards.

Course Outline:
This course covers the requirements of B31.3 for design, analysis, materials, fabrication, testing and inspection of process piping systems. It explores the rules for various components including fittings, connections, bends, valves and specialty components. Other topics include dimensions and ratings of components, fluid service requirements for joints, piping flexibility and support, welding, heat treatment, bending and forming, brazing and soldering, assembly, erection, examination and inspection.

On completion of this course, students will be able to:

• Identify the responsibilities of personnel involved in the design, fabrication, assembly, erection, examination, inspection, and testing of process piping

• Describe the scope and technical requirements of the ASME B31.3 Code

• Apply and implement the quality requirements that are defined in the ASME B31.3 Code.

The instructor asks students to bring specific problems/questions from your work to the class. Questions can also be sent to the instructor in advance. E-mail to CraigPauley@chevron.com, and these will be forwarded to the instructor.

Instructors Biography:

Jim E. Meyer, P.E., has over 40 years of experience in refining petrochemical, chemical, power generation and industrial facilities. He is a principal engineer at Louis Perry and Associates, a full service engineering and architectural firm, located in Wadsworth Ohio. Jim is experienced in overall project coordination/management, pressure equipment, piping design, analysis, specifications, support design, mechanical system requirements and documentation requirements. In particular, areas of his technical competence include ASME piping and pressure vessel codes, stress analysis, field troubleshooting piping system support, vibration, and expansion problems.

Jim is a member of ASME and has been involved in the ASME B31.1 and ASME B31.3 Section committees for over 35 years. He is currently Chair of the ASME B31.3 Process Piping Section Committee, Chair of the ASME B31 Standards Committee, and serves on the ASME Board on Pressure Technology Codes and Standards. Jim has also served as Chair of ASME B31.1 Power Piping Code Section Committee.


Special Requirements: Each student should bring a calculator.

Printed course materials do not include a B31.3 code book. For those who do not have access to the code book through their office, you may purchase a copy of the 2014 B31.3 code book, for $425, by contacting Craig Pauley in advance.
Basic Pressure Transient Test Analysis

19-20 May 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.
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.

Sudipta 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 is the completion manager for the unconventional resources team, a group primarily focused on the completion of shales and similar unconventional plays that require multistage hydraulic fracturing. Burton joined Baker Hughes as a field engineer trainee for completion tools after graduation. 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, Marcellus, and the Lower Huron.

Burton holds a BS in mechanical engineering from Mississippi State University.
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 Overpressed 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.
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 steamfields, horizontal well applications, SAGD, VAPEX, 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, Bulter’s book on heavy oil and bitumen recovery, and Prat’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, Bulter’s book on heavy oil and bitumen recovery, and Prat’s book on thermal recovery.

COMPUTER PROGRAMS
IBM PC computer programs in VisualBasic and Excel worksheets 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: sfarouqali@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
- Steamfield mechanisms, recovery predictions, field experience and techniques
- Mature steamfields, 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.

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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.

Jeffery A. Jones
Jeff Jones is a Vice President with E & B Resources, in Bakersfield, and has over 44 years experience in all facets of 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

Date
Name
Company

Address,

Telephone
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.

Send to:
S.M. Farouq Ali
H.O.R. Heavy Oil Recovery Technologies Ltd.
9131-39 Ave, Suite 207
Edmonton, AB T6E 5Y2, Canada
Tel (780)461-2944
e-mail: sfarouqali@gmail.com

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Number of registrants limited to 12

May 11-13, 2015
BAKERSFIELD, CA
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.

SENeca RESOURCES CORPORATION IS AN EQUAL OPPORTUNITY EMPLOYER MINORITIES/WOMEN/DISABLED/VETERANS

Please note: We occasionally amend or withdraw Seneca Resources jobs and reserve the right to do so at any time, including prior to the advertised closing date.

As an active exploration and production company in the northeastern U.S. for more than 100 years, Seneca Resources Corporation is committed to safety, environmental stewardship, increased productivity and maximizing shareholder value.
Engineer, Production – Bakersfield, CA

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SENECA RESOURCES CORPORATION IS AN EQUAL OPPORTUNITY EMPLOYER MINORITIES/WOMEN/DISABLED/VETERANS

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As an active exploration and production company in the northeastern U.S. for more than 100 years, Seneca Resources Corporation is committed to safety, environmental stewardship, increased productivity and maximizing shareholder value.

GE Well Performance Services
ESP Facility Grand-Opening

- When: Tuesday, March 3rd 2015, 10AM – 4PM
- What: Open House & Lunch
- Where: GE Artificial Lift
  4832 Rosedale Lane
  Bakersfield, CA 93314

GE Oil & Gas is proud to announce the opening of their latest Electric Submersible Pump support facility, located in Bakersfield California. This facility will support all Western USA ESP operations to include California, Nevada, & Alaska.

Tuesday, March 3rd GE WPS will be hosting a facility tour and lunch; please come join us to meet the team, view the facilities, and see some of GE’s innovative ESP products in person.

For more details please contact:
  Michael Anderson | 1 661 204-6825 | michael.anderson@ge.com
  Braidon Waggoner | 1 661 342 9836 | braidon.waggoner@ge.com
  Peter Hege | 1 562 371 5237 | peter.hege@ge.com
  Peter Gill | 1 661 432-5723 | peter.gill@ge.com

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Now that oil prices are at rock bottom,

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Oil producers should consider utilizing downhole rod pumps that stay in the ground 300% longer.

(Six Sigma Study)

Farr plunger pumps will drop operating costs to rock bottom

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Web site: www.muthpump.com  See video: Farr vs. API

Call us today to triple your pump run life and start saving money.
16th Annual Black Gold Productions Melodrama presents...

The Big Bad Musical

A Howling Courtroom Comedy

March 13-15 & 20-21

Cost: $25 for Friday and Saturday shows (includes dinner).
     $10 for Sunday Matinee.

When: 7:00pm Friday and Saturday nights. Doors open at 5:30 pm for the dinner available prior to 7pm shows.
      Matinee is at 2:00pm (doors open at 1:30pm).

Where: Bakersfield Women's Club, 2030 18th St., Bakersfield, CA

Proceeds Benefit the Kern County Cancer Fund
Dinner Proceeds Benefit the API Scholarship Fund

Information at www.bgp-show.com
or call (661) 330-0423
Advertising Order Form for the monthly newsletter of the San Joaquin Valley Section of Society of Petroleum Engineers

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Mojtaba (Reza) Ardali, SPE Board Member California Resources Corp
Mojtaba.Ardali@crc.com