March 20th, 2014

General Section Meeting

Solar Steam Generation for Thermal Recovery: Update

Speaker: John O’Donnell, VP Business Development, GlassPoint Solar

Date: Thursday, March 20th @ 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

No charge for Student Members, only RSVP

Reservations: RSVP by Tuesday morning March 18th, 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 SPE Non-Members - $30

OR if the above links don’t work copy these links in your browser’s address box

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OR

Email Blythe Miron at BlytheMiron@chevron.com

Call (661) 281-5713

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

Solar steam generation offers cost-effective reductions in fuel costs and air emissions, and expanded total recovery in thermal EOR projects in California, the Middle East, and other sunny regions. GlassPoint's innovative Enclosed Trough technology was developed specifically for the needs of thermal recovery operations (EOR), and has proven its reliability, cost-effectiveness, and process and environmental compatibility in pilot projects in California and Oman. The talk includes a review of the construction and operation of the pilot installations.

Solar EOR creates credits under California's Low Carbon Fuel Standard, potentially delivering large benefits to refiners as well as upstream operators. Solar steam generation can deliver 5 million LCFS credits or more per annum serving just a fraction of current California thermal requirements, contributing to market stability and cost containment. Uniquely among compliance pathways, solar EOR delivers carbon intensity reductions in petroleum fuels, extending the economic life and value of California's refineries and oilfields.

Speaker’s Short Bio

John O’Donnell is VP Business Development, GlassPoint Solar, Inc. Prior to joining GlassPoint, John was formerly founder and president of solar thermal provider Ausra (now Areva Solar). John started his career at USDOE's Princeton Plasma Physics Laboratory.

He was founder and holder of executive positions at Vendar Group, Pixelworks, Inc., Equator Technologies, Inc. and Multiflow Computer, Inc. John is named on nine U.S. patents. He has a B.Sc. with Special Distinction in Computer Science from Yale University and is a member of SPE.
Is it me, or are we all just as busy as a one-armed paper hangar? I remember the time when we engineers all anticipated the freedom that the paperless society would create. No more check prints and reverse sepias and….slide rules!!! I was tasked as a young computer literate engineer with the duty of bringing personal computers and the first network to our workplace not to mention the first 3-d modeling computer and going to Mountain View in the Silicon Valley to pick a CAD system the size of two refrigerators (what was that?). With this sense of changes in mind I happened to be going over box loads of historic documents and found myself looking over books by Bill Rintoul and other historic texts and photos going back over a century of petroleum production and downstream treatment as part of another case involving legacy issues. Remarkable--Los Angeles in the 1920’s was bursting at the seams with oil fields and refineries and manufacturing. The energy of the times was tangible in the photos and writings. Even the design documents exuded a certain faith in the future value of many things now considered mundane. Time has changed all that and the grand efforts are now often reduced to trite nostalgia or cursed as the bad old days reflecting bad old ways. The strategic value of hydrocarbon energy will never be lost in a sea of wishful thoughts. The challenges of our time is to couple the fact that our industry, like many operates with the permission of the public, with the demand that we achieve: a low tolerance of failure, a high interest innovation and a firm plan for education. We cannot return to certain past practices that may have eroded the current public confidence in our industry but we should continue to embrace the heroic entrepreneurial spirit of the early industry greats in pursuing the goals of our respective industry employers. The production of hydrocarbons and conversion to sources of raw material and energy is neither tired nor old and certainly is not without challenge. So---yeah, we are busy—isn’t it great!!
### SPE Subsurface Study Group Lunch

**Effective Reservoir Descriptions for Dynamic Model Updating**

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<td>Venue</td>
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<tr>
<td>Speaker</td>
<td>Dr. Behnam Jafarpour, professor of petroleum engineering at USC Viterbi School of Engineering</td>
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**Abstract**

High resolution descriptions of geologic variability in reservoir models are important for modeling fluid flow and transport processes in the reservoir and predicting oil and gas production. However, data limitation and multi-scale heterogeneity of geologic formations necessitate interpolation and extrapolation of reservoir properties beyond the collected data, which is usually accompanied by simplifying assumptions. As a result, a significant level of uncertainty is introduced into description of reservoir properties, which directly affects development planning. In particular, estimating high-resolution heterogeneous reservoir model properties from dynamic production and monitoring measurements often leads to an underdetermined inverse problem, also known as history matching, that usually have many non-unique solutions. Since geologic depositions are formed as continuous layers with local discontinuities, they exhibit strong spatial correlations. Consequently, the salient connectivity features in reservoir property maps become amenable to compact representations, a property that can be exploited to improve the ill-posed nature of the history matching inverse problem. In this talk, I will review compact (or reduced-order) representation of rock property maps and discuss an effective reservoir description and history matching approach that offers flexibility and robustness against prevailing geologic uncertainty.

**Short Bio**

Behnam Jafarpour is currently an assistant professor of petroleum and electrical engineering at USC Viterbi School of Engineering where he leads the Subsurface Energy and Environmental Systems lab. He previously served as an assistant professor of Petroleum Engineering at Texas A&M University from 2008 to 2011. He earned his MS and PhD degrees in electrical engineering and environmental engineering, respectively, from MIT in 2008. His research focuses on applying the principles of systems theory and signal processing to identification and development of subsurface systems and in particular oil and gas reservoirs. He is the recipient of the 2012 SPE Junior Faculty Research Initiation Award and the 2013 Distinguished Achievement Award of the SPE Western North America Region.
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## 2013-2014

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Mojtaba Ardali, SPE, is a Reservoir Engineer with Oxy. At Oxy, he works for Shale Development and EOR team and he is involved in EOR reservoir simulation studies. He recently graduated from Texas A&M University and during his PhD, he conducted research in thermal recovery especially SAGD process for Canadian reservoirs. His areas of interest include reservoir modeling, production surveillance and hydraulic fracturing. Mojtaba has been an SPE member since 2004 and is an author of seven SPE papers. He serves on the SPE SJV Board since 2013.

PROFESSIONAL SPOTLIGHT

Larry Murray

Larry is currently the manager for Occidental Petroleum’s California Exploitation Process Optimization team. He has been with Oxy in Bakersfield for 9 years in a variety of reservoir simulation related positions. Larry holds B.S. degrees in chemistry and chemical engineering from the University of California at Irvine and Santa Barbara, and an M.S. degree in chemical engineering from UC Berkeley. Larry has specialized in reservoir simulation his entire career including positions with Unocal in their research and geothermal divisions, and MidAmerican Energy in their geothermal business units. Larry has extensive worldwide modeling experience with geothermal fields, oil and gas waterflood and EOR processes, and Monterey shale reservoirs. In recent years he has focused considerable attention on uncertainty analysis as applied to reservoir simulation, and he was an early developer of commercial assisted history matching software in the early 1990s.

SPE SJV: Please tell us a little bit about your current work responsibilities?

LM: My current job position is to manage a technical studies group responsible for providing flow modeling studies of key California-based Oxy development projects. These projects range from improving mature waterfloods, proposing new waterflood and EOR pilots, recommending well spacing and types in new field developments, identifying remaining oil in place targets for development drilling, and providing a secondary technical basis for reserve estimation. As a group we are ultimately challenged to make sure our studies can add value to the organization and find ways to move our technical studies work into implementation within the business units.

SPE SJV: What is the most interesting assignment / project you worked on that really stands out for you?

LM: No two projects are ever alike and each has its own set of unique technical challenges. From a manager’s perspective, I think my team’s work on Oxy’s Elk Hills ASP pilot two years ago was particularly interesting because it brought into play technical issues associated with complex chemical behavior, core flood modeling, pilot performance interpretation, and rigorous uncertainty analysis to support a future ASP expansion. From an individual point of view, my work on developing an industry-standard geothermal simulator coupled with flow visualization and assisted history matching features in the early 1990s was particularly satisfying.
SPE SJV: There are several tools for reservoir management including numerical reservoir simulators. Please tell us a little about the importance and usefulness of reservoir simulators. In addition, how do you recommend using simulators cost-effectively?

LM: I can honestly say that the biggest challenge I face as a manager is to bring value and relevance to the use of reservoir simulation for projects. For many outsiders, reservoir simulation looks like a black box process. Done correctly, reservoir simulation is a fantastic tool that provides reservoir engineers with a unique opportunity to test ideas, integrate data, and support business decisions surrounding the development and exploitation of reservoirs. Done incorrectly, the tool takes over and really does become a black box.

SPE SJV: Overreliance on computerized workflows seems to be an important recent issue among petroleum engineers and in fact was criticized by previous interviewees. I would like to know your opinion regarding this issue and how do you think it is possible to avoid it?

LM: I would probably agree with previous criticism. I would offer some of the following solutions.

I. Do not consider reservoir simulation to be a substitute for good reservoir engineering, it is a tool that requires an intelligent engineer on the other end of it.

II. Reservoir simulation models should not be considered the end product of reservoir simulation. I think the end products are good technical and business decisions that are guided by the learnings from all aspects of the simulation process – even when we build models we don’t like. Since reservoir simulation is a data integration process, this is the one time that multiple disciplines have a chance to reflect on what is really happening underground and how best to extract the oil.

III. Avoid the “complex is better” mentality. Adding platoons of geos and engineers, along with building complicated models, does not add credibility to a modeling process.

IV. Stop looking for deterministic solutions and embrace uncertainties as part of the simulation process.

SPE SJV: If you would not have joined the oil industry, what would you be doing today?

LM: Honestly I have always loved working in the industry and have never considered a career outside of it.

SPE SJV: Work-life balance is a hot topic in many industries as job demands get higher and higher. How do you manage to maintain that balance?

LM: It’s actually quite easy to do in Bakersfield since most of our jobs are in offices close to home. That eliminates the commute issue and frees up a lot of extra time that can be divided between work and home as needed. I think as professionals we all learn time management skills and how to decide when the job needs extra attention or not.

SPE SJV: What keeps you busy outside of work?

LM: I’m still trying to figure out how to stop hooking a golf ball or double-faulting on a tennis court. It looks like solving those problems are life-long endeavors.

**Please note that the opinions expressed are personal opinions and do not reflect any position of OXY**
LOOKBACK for February 2014

Engineering Day at CSUB – BBQ provided by Halliburton

SPE visits CSUB's new engineering program.

Jesse Fredrick’s presents “PDQ Engineering” for CSUB students.
Announcing the SPE SJV Section Monthly Networking Bash

The March Sponsor is Weatherford.

Thursday, March 27th, 2014
5:30-7:30 @
Lengthwise Brewery “The Pub” - Northwest
2900 Calloway Drive

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 long time colleague. Non-member guests are always welcome to attend.

RSVP to Tara Butler @ tbutler@enovaes.com or 661-319-4022
The SPE SJV Section would like to thank Weatherford for sponsoring our February Monthly Networking Bash!

Wireline Services
Tubing Conveyed Perforating
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Chevron 13 API Crude Price
(Daily Posted Price)

Source: Chevron California Crude Oil Price Bulletin
University of Southern California
Viterbi School of Engineering

Please join us for an
Information Session at

Society of Petroleum Engineers:
Bakersfield, CA

Date: Wednesday March 19th, 2014
Time: 6:00pm – 7:00pm
Location: Petroleum Club (5060 California Ave. Bakersfield, CA 93309)

Why Attend?

• Discover the 40+ graduate engineering programs offered completely online through the Distance Education Network [DEN@Viterbi]

• Learn about the flexibility and interactivity provided by DEN@Viterbi, a Top 5 ranked Online Engineering Graduate Program (U.S. News and World Report, 2014).

• Find out how you can begin taking classes for the Fall 2014 Semester

• Lunch will be provided!

Questions? Email DEN@viterbi.usc.edu

Paypal (SPE Members)- Free  Paypal (SPE None-Members)-Free

SJV SPE News
Online Registration Only

**Golf & Sponsorship Registration**

**Date:** April 11, 2014 - 9:00 am Shotgun Start  
**Location:** Sundale Country Club  
**Format:** 4 Person Scramble  
**Cost:** $125 / Player  
**Registration Deadline:** March 28th  
**Registration Information:** Pam Willis @ PTWillis@aeraenergy.com  
**Sponsors Info:** Larry Miller @ Larry.Miller@Halliburton.com
Engineering Day 2014 – Another Success

On February 21st, California State University Bakersfield hosted another successful Engineering Day. Over 500 students from 30 Kern County high schools toured the campus and interacted with members of local industry and academia. Local industry, colleges, Kern County Superintendent of Schools and SPE helped *make a difference* for the students wanting to learn more about STEM careers.

With a full spectrum of experience from students to seasoned professionals, our presenters covered a variety of subjects. Topics included a discussion of their personal career arcs, how engineering is responsible for our modern conveniences, and the benefits of a career in engineering. Students left with a better understanding of the career of an engineer and how engineering impacts our daily lives.

The exhibitor hall gave the students the opportunity to speak directly with members of local industry, representatives of professional organizations, and faculty and staff of local colleges. The popular flight simulator from Edwards Air Force Base returned for another year. Rock and mineral samples, frac fluid demonstrations, equipment mock-ups, and games were just some of the many interactive and informative exhibits. The students witnessed demonstrations while touring the robotics, physics, chemistry, biosystems, engineering science, and petroleum engineering laboratories of the CSUB campus.

The local media brought exposure of Engineering Day to our entire community. KGET and KERO ran stories on their evening news programs.
We would like to thank all of our generous sponsors, informative exhibitors, engaging presenters, and hard-working volunteers for contributing to the success of the 14th annual Engineering Day:

**Sponsors**

Lunch for over 600 students and volunteers generously provided by:

**Exhibitors**

Aera Energy LLC  
American Association of Safety Engineers  
California State University Bakersfield  
Cannon  
Chevron  
Diversified Project Services  
International, Inc  
Edwards AFB Flight Test Center  
Halliburton  
Occidental Petroleum  
San Joaquin Geological Society  
Schlumberger Oilfield Services  
Society of Petroleum Engineers  
Taft College  
Willbros Engineers

**Presenters**

Mick Bowen – **Edwards AFB Flight Test Center**  
Erin Daniel – **Aera Energy LLC**  
Rita Waugh – **Aera Energy LLC**  
Jesse Frederick – **WZI Inc**  
Chris Reedy – **CSUB, SPE**  
Kevin Wagner – **Chevron**  
Malou Guerrero – **Aera Energy LLC**  
Paul Blake – **Taft College**  
Linda Mohammed – **Aera Energy LLC**
2014 College Scholarship Applications
Available online

The San Joaquin Valley (SJV) chapter of the Society of Petroleum Engineers is offering a college scholarship program for Fall 2014. The Scholarship is co-funded by SJV member activities and SPE headquarters.

Submittal deadline is May 9th, 2014.

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

To be eligible an applicant must be:

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

Either

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

Or

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

For more information, please contact:
Dave Susko, Community Outreach Director, (661) 336-3408
Or via email: david.susko@bakerhughes.com
Download the application directly at: http://sjv.spe.org/aboutus/scholarships
ENERGY TECHNOLOGY PROGRAM

The Taft College Energy Technology program provides training and education in technical and professional skills to enable individuals to be job ready and professionally prepared. This program was developed in collaboration with the energy sector with the goals of preparing students for the workplace and supporting the energy sector with skilled workers. The program first offered in Fall 2010 started with approximately 21 students and as of Fall 2013 this number has grown to estimated 126 students. The program has an emphasis in the petroleum industry, but it teaches the fundamentals of the energy sector so that the skills attained are transferable across industries.

To meet the goal of producing skilled workers, the program addresses both technical and professional skill preparation. Technical skills topics include: computer applications, data management, petroleum processes, safety, and instrumentation, while professional skill topics include: business communication, ethics & values, conflict resolution, and teamwork.

Students in the program range from recent high school graduates to working adults. The program is ideal for those interested in the petroleum industry, whether they are looking for a career change, or wanting to advance their careers more broadly. Students may choose to receive an Associate’s degree and/or one five certificate options.

Students gain practical work experience along with their studies. Taft College has partnered with several oil & gas companies plus the US Bureau of Land Management to offer interested students with internship opportunities. Therefore, a number of our students have received paid internship opportunities with some of our oil & gas sector partners. Furthermore, some students have been able to secure full-time employment within the oil and gas industry sector, while others have been able to advance their careers within the industry. This program is only possible working in partnership with area industry, including: Holmes Western, Chevron, Linn Energy (formerly Berry Petroleum), Freeport-McMoRan (formerly PXP), Oxy, E&B Natural Resources, Nabors, Halliburton, Gene Watson, Sempra Energy, Workforce Staffing, Aera, Electrical Power Services, Inc., PCL, and Westec.

For more information about the Energy Technology Program, contact 661-763-7748/661-763-7967 or CareerReady@taftcollege.edu
SPE SJV
STUDENT CHAPTER
CSU BAKERSFIELD

Guest Speakers

On Monday January 27th the SPE SJV Student Chapter had the first guest speaker of the year. The guest speaker was Deanne Renting and her presentation was on “Production of Diatomite”

David Wolfer, president of IES, was our second guest speaker of the year and took place February 24th, 2014.

We, the student chapter, would like to thank our guests for being part and taking time from their busy schedules to provide us with valuable insights of their career and the industry. We are truly thankful.

Starting the new year on the right path

First, we would like to thank our guest speakers for the month of January and February for taking part and motivating us to keep looking forward. As a student chapter, it is our main goal to provide valuable presentations of the industry.

Our student executive board is excited into bringing free tutoring sessions for our engineering students at CSUB. We know how much dedication and perseverance it takes to be an engineering student and we would like to start a tutoring program for them to keep them motivated.

As of right now, there is not an official tutoring program for engineering students, but it is in the talk and we can’t wait to make this possible! Meanwhile, we are providing study sessions for midterms and upcoming finals. We not only find this a great way to study, but also a way to be able to communicate with our student members.

The SPE student board was excited to volunteer and take part on Engineering day that took place Friday February 21, 2014. This was a great way to interact with high school students from all over Kern County and motivate them into pursuing STEM majors.

Our SPE Student Chapter at CSUB is very excited and motivated to bring new ideas on the table that will benefit our members, students, faculty, and our community as a whole. We would like to thank everyone that has helped us in one way or another to make this student chapter the best it can be.

-SPE Student Chapter at California State University
Ed Smalley has more than 30 years of oilfield experience, including assignments in new product development, field operations, sales, and management. His areas of expertise include coiled tubing, formation evaluation, coalbed methane, hydraulic fracturing, and commercialization of emerging technology.

He started his career with Schlumberger where he held various positions of increasing responsibility in sales and operations. Ed then joined Gas Technology Institute as Director of E&P Business Development, where he spearheaded the commercial launch of more than 60 new E&P products.

He has been with NOV CTES in Conroe, TX, for the past 9 years and serves as General Manager, responsible for the overall management of the organization. NOV CTES is a provider of leading-edge downhole modeling software and advanced measuring devices that support the coiled tubing, wireline, and drilling segments of the industry. Mr. Smalley holds a B.S. Engineering degree from Kansas State University and has published numerous SPE papers. He is an active member of SPE, ICoTA, and SPWLA.

Coiled Tubing and Its Applications
9 April 2014 :: 0800–1700

University of Phoenix
4900 California Ave.
Bakersfield, CA 93309

This course provides an introduction to coiled tubing (CT) as a tool for workover and drilling and completion services. It includes an overview of CT extended-reach operations, typical field applications, the properties of CT, its manufacture, surface equipment required for downhole deployment, as well as discussion of downhole CT tools. A significant portion of the course covers CT mechanical performance, including working limits, buckling, and fatigue. A discussion of CT drilling technology and hydraulics is also included.

Topics include:

- An introduction to surface equipment required to deploy CT during field operations
- Basic understanding of CT job modeling and fatigue tracking, and why it’s important
- Introduction to typical CT field applications
- Overview of selected new CT technology

Learning Level - Introductory

Course Length - 1 Day

Why You Should Attend - This is an introductory course for engineers and others new to the field of CT. This course will provide an improved understanding of critical issues related to successful CT field operations.

Who Should Attend - Engineers and others that are involved in the design of CT equipment or uses of CT field services.

CEUs - .8 CEUs (Continuing Education Units) will be awarded for this 1-day course.
**“Bachus Pump Course”**

**Instructor:** Mr. Larry Bachus

**Date:** June 9-13th, 2014 (8:00 am to 5:00 pm)

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

**Announcement:**

SJVSPE is proudly sponsoring the – Bachus Pump Course. This is an intensive five day course which explains the design, operation, and maintenance of process pumps with emphasis on petroleum applications and pumps used in petroleum production and refining. Students should bring their laptops and a calculator to assist in the learning process.

**Questions:**

Please call Terry L. Kloth @ 661-328-5952 (office); 661-342-1068 (mobile) or e-mail TLKB@pge.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 50 students. The price of this course for SPE members and non-members is $1,800 per person. The text book “Everything You Need to Know about Pumps” is included with the course. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included.

**PayPal Link:**

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=ZNWNEMZ24USZA

**RSVP:** Please RSVP to TLKB@pge.com or Craig Pauley @ craigpauley@chevron.com

**Target Audience:**

Facility Engineers, Facility Engineering Supervisors, Construction Engineers, operational personnel, supervision, Piping engineers, designers Project Engineers, Project managers, and anyone whom would like a better understanding of pumps.

**Course Outline:**

1) Pump Principles
2) NPSH, Net Positive Suction Head
3) Cavitation- Types- Prevention
4) The Affinity Laws
5) Useful Work and Pump Efficiency
6) Pump Classification – Types of Pumps
7) Understanding Pump Curves
8) The “Pumping” system curve
9) Pump Shaft Deflection
10) Pump and Motor Alignment
11) Pump Bearings & care
12) Pump Shaft Packing
13) Mechanical Seals
14) Failure Analysis of Mechanical Seals
15) Common Sense Failure Analysis
16) Avoiding Wear in Centrifugal Pumps
17) Proper Fluid Piping

**Instructors Biography:**

Mr. Larry Bachus has over 40-years of experience working with Industrial Pumps, including almost 20-years dedicated to refinery pumps. His areas of expertise include the design selection, operation, and maintenance of petroleum process pumps. For many years, Larry operated his own pump rebuild/repair facility where he serviced pumps for Gulf, Sunoco, Hess, Mobil, Esso, Shell DuPont and PDVSA. Today, Larry travels the world as mentor-trainer to global refiners SASOL, PETRONAS Petroleum, ECOPETROL de Colombia, Chevron Nigeria, Chevron South Africa, SAPREF and India Oil. He is instrumental in drastically improving the service time (MTBF) of industrial pumps. Larry has authored many “pump” articles and papers. He has authored two books “Know and Understand Centrifugal Pumps” and “Everything you need to Know about Pumps”. Larry wrote the second book in English and Spanish at the same time. Larry has a certificate in Maintenance Management from the University of Alabama, and is currently working on a Master’s Degree at Middle Tennessee State University. Larry is a U.S. Navy veteran and is CEO of Bachus Company, Inc. Larry is known worldwide as “The Pump Guy”.

**Special Requirements:** Lap Tops and calculator.
Thermal oil recovery
SHORT COURSE

MAY 5-7, 2014

OUR 36TH YEAR

PRACTICAL 3-DAY COURSE
EXPERIENCED INSTRUCTORS
USEFUL PC PROGRAMS

Course Description
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, VAPEX, etc. The course is designed for reservoir and production engineers but will also be useful for geologists, technicians and managers working in heavy oil production.

Easy-to-use PC programs and spreadsheets are provided to help the participants understand thermal processes and make engineering predictions.

TEXTS
Attendees will receive a comprehensive revised manual.

COMPUTER PROGRAMS
IBM PC programs in Visual Basic and Excel worksheets are provided to estimate steam zone development, heat loss, cyclic steaming performance, pressure drop in steam lines, steamflood performance, SAGD calculations, etc.

Instructors
Farouq Ali has taught similar short courses to over 7000 industry participants during the past 48 years. He specializes in thermal recovery and simulation. Farouq Ali has written three books and over 500 technical papers on these subjects. He has designed more than 40 oil recovery projects in various countries. Among many awards, he received the 1997 SPE Thermal Recovery Pioneer, 2007 SPE Anthony F. Lucas, 2002 SPE Improved Recovery Pioneer and 1996 SPE Lester C. Uren awards. He is a member of the U.S. National Academy of Engineering.

Jeff Jones is Vice President, Reservoir Engineering with E & B Resources, in Bakersfield, and has over 40 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.

Location
Four Points Sheraton, Inn, 5101 California Ave.

REGISTRATION
Registration fee is $3,300
Call (780) 461-2944
Fax (780) 461-8494
e-mail: farouq@telusplanet.net
“Introduction to API Storage Tank Standards”

Instructor:        Mr. John Cornell

Date:    November 4-6th, 2014 (8:00 am to 5:00 pm)

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

Announcement:

SJVSPE is proudly sponsoring the – “Introduction to API Storage Tank Standards”. This is an intensive three day course which is designed for petroleum industry personnel, Facility Engineers, Project Engineers and Managers, suppliers, engineering firms, and operating personnel and contractors responsible for the design, construction, inspection, maintenance, regulatory, compliance, or operation of both large and small above ground storage tanks. A complete set of course materials are provided in a binder for each student.

Questions:

Please call Terry L. Kloth @ 661-328-5952 (office); 661-342-1068 (mobile) or e-mail TLKB@pge.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 for SPE members and non-members is $1,510 per person. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included.

PayPal Link:  https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=QZKFHWAKE7FXC

RSVP: Please RSVP to TLKB@pge.com

Target Audience:

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

Course Outline:

Day One: Large Atmospheric Tanks (API-650) - Tank introduction, Materials, Design, Fabrication, Construction, External/ Internal floating roofs, Marking, and additional design and construction details.

Day two: Existing Tank Evaluation (API-653) – Introduction to tank failures, Brittle fracture, Inspection drivers and considerations, Inspection types and schedules, Safety concerns around tanks, Failure (corrosion) types, etc.

Day three: Production Tanks (API-12F -12B) Tank Materials, Design, Fabrication. Also, (API-12R1), Inspection of field production tanks.

Instructors Biography:

Mr. John Cornell is a Senior Tank Specialist for and owner of H.I.R. Technical Services which is a well-recognized tank consulting firm for storage tank design, fabrication, construction, inspection, and repair. He is currently an Official contracted training provider for The American Petroleum Institute worldwide and has been offering tank training courses on standards such as but not limited to API-620, API-650, and API-653 for many years. Mr. Cornell has worked for several suppliers of both internal and external floating roofs and is now considered to be an expert on floating roof systems of all design. Mr. Cornell discovered a gap in the training that was currently available to tank owners so he has assembled and now offers “The Advanced Tank Training” course which is intended to increase the knowledge of tank owners. Mr. Cornell is the Senior Training Provider for the USDOT for PHSMA as relating to Large Breakout tanks. Mr. Cornell is also an API-653 Certified Tank Inspector.

Special Requirements: Lap Tops are “not required” and the students are discouraged from using lap tops or smart phones during class.
SPE Western North America and Rocky Mountain Joint Regional Meeting

16–18 April 2014
Denver, Colorado USA

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This two-day event will blend the technology ideas and know-how between conventional and unconventional assets. The program includes interesting and challenging topics ranging from newest horizontal well technologies to 100 year old waterflood and steam operations.

For those exploiting the unconventionals, this conference provides a great opportunity to understand the Bakken and the Niobrara plays. For those from the conventional asset, in addition to hearing case histories and technology of Waterflood and EOR projects, you will also have a chance to learn whether there are new unconventional technologies that will help further your efforts to maximize production and recovery.

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