Dear Members

I wish everyone a happy New Year. I hope your holidays were merry and bright. As we all return to work, I remind everyone to be careful as we get back into the swing of things. Accidents are more likely to occur during this time as we all start adjusting back to the pace of work life after a nice holiday break.

I remind everyone to make sure to renew their SPE membership for 2015 if you haven’t already. You can easily renew online at http://www.spe.org/join/

The SJVSPE Community Outreach is hosting the 2015 Engineering day at CSUB details 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 January

There are several conferences and workshops being held this month:


Sincerely
Your SJV SPE 2014-2015 Chair,
Blythe Johnson
January 15, 2015 General Section Meeting

Topic: What Makes an Oil Well Tick?

Speaker: Andrew Seto, California Resources Corporation

Date: Thursday, January 15, 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 January 13th, using one of the three options:

- Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:
  - PayPal Link for SPE Members - $25
  - PayPal Link for Non-SPE Members - $30

- OR if the above links don’t work copy these links in your browser’s address box
  - Members
    - https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=QA6J43394DQSE
  - Non-Members
    - https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=2MW429CPK3Z5J

- 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:

In the reservoir management of oil fields, reservoir engineers often need to provide rate estimates for the economic evaluation of infill producer and/or well stimulation/conversion programs. In the case of acquisition, quick and realistic estimates of potential upsides in incremental oil production volume and reserves are critical in the multi-million, or multi–billion -dollar decision making process.

This presentation will describe the basic reservoir parameters that affect oil production rates, and how to estimate ultimate oil recovery factors from improved oil recovery schemes (i.e. waterflood, miscible gas flood etc.).

SPEAKER:

Andrew is currently the Chief Reservoir Engineer for Central Valley Operations at California Resources Corporation. He has over 30 years of experience in reservoir characterization, modeling, evaluation, planning and management of oil and gas properties. Andrew has worked for major oil and gas companies, including Imperial Oil (ExxonMobil affiliate), Husky Energy, Penn West Exploration, in various specialist and management capacities. He was instrumental in the success of many EOR projects involving thermal oil recovery, hydrocarbon miscible flood, CO₂ flood, chemical flood, and tight oil resource development, in Canada, U.S.A., New Zealand, China, India, Albania and the Middle East. He holds a B.Sc. degree and a M.Sc. degree in Civil Engineering, both from the University of Alberta.
February 4, Young Professional Meeting

Topic: Status of Heavy Oil Recovery and Way Forward

Tayfun Babadagli

NSERC-Industrial Research Chair in Unconventional Oil Recovery
University of Alberta

ABSTRACT

The role of heavy-oil in meeting the demand of future energy needs of the world is crucial. Although the existing reserves of heavy oil exceed the remaining conventional (light) oil remarkably, its contribution to the total production is relatively small (around 7-10%). This is partially due to unstable oil prices and environmental concerns. But, lack of new and efficient technologies is the underlying reason for the underdevelopment of heavy-oil sources. This talk summarizes the current status of heavy oil production in the world and future development options. Steam injection is described as the only proven EOR technology and nearly 20-30% of heavy-oil is produced by different schemes of steam injection. After discussing the efficiency of these schemes including cyclic steam injection, steamflooding, steam assisted gravity drainage, thermally assisted gas-oil gravity drainage, possible solutions to improve it through chemicals, solvent, nano-materials, and optimization processes are outlined. Steam/solvent co- or alternate injection possibilities are also demonstrated using laboratory and field scale trials for sandstones and fractured carbonates.

In unfavourable environments such as tight and deep reservoirs and oil shales, aqueous methods of heating may not be suitable. After reviewing the status of electromagnetic heating as an alternative solution and its use with solvents in problematic heavy-oil/bitumen reservoirs is discussed. Attention is also paid to non-heating options such as cold production, surface extraction, and solvent applications for depletion of heavy-oil/bitumen reserves.

SPEAKER

Tayfun Babadagli is a professor in the Civil and Environmental Engineering Department, School of Mining and Petroleum Engineering, at the University of Alberta, where he holds an NSERC-Industrial Research Chair in “Unconventional Oil Recovery.” Babadagli previously served on the faculty at Istanbul Technical University, Turkey, and Sultan Qaboos University, Oman. His areas of interest include modeling fluid and heat flow in heterogeneous and fractured reservoirs, reservoir characterization through stochastic and fractal methods, optimization of oil/heavy-oil recovery by conventional/unconventional enhanced-oil-recovery methods, and CO2 sequestration. Babadagli holds BS and MS degrees from Istanbul Technical University and MS and PhD degrees from the University of Southern California, all in petroleum engineering. He was an Executive Editor for SPE Reservoir Evaluation and Engineering (Formation Evaluation part) between 2010 and 2013 and is currently an Associate Editor of ASME J. of Energy Resources Technology. He received SPE’s A Peer Apart Award in 2013, was elected an SPE Distinguished Member in 2013, and was an SPE Distinguished Lecturer in 2013–2014. Babadagli has provided consultancy services and short courses, and delivered talks to industry, universities and research centers in more than twenty countries. He has also authored more than 300 technical papers, of which 150 were in referred journals, as well as two book chapters and more than 50 technical reports, and he holds one patent.
Sustainability

Sustainability is difficult to define and is in basic terms referred to as the process of maintaining a certain level of productivity in an organization, community, etc. It is often used interchangeably, especially in the oil and gas industry, with the term “sustainable development,” with the latter being the more accepted of the two. The most widely accepted definition of sustainable development came from the Brundtland Commission in 1987, which defines sustainable development as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.” The concept has since expanded and become increasingly important to the oil and gas industry.

HISTORY

Although sustainability seems to be a recent concern, it has been discussed and developed for many years. There have been many summits, meetings, and conferences that have focused on sustainability and sustainable development in both the broad sense and one that is more specific to certain industries (see Fig below).

Timeline of events related to sustainable development

The most important of these events were the Brundtland Commission and subsequent report (Our Common Future) published in 1987 that defined the term sustainable development. In a later summit in 2002 in Johannesburg, the three pillars of sustainable development were established and an action plan for all three of these pillars was mapped out in Agenda 21. Another important series of events were the Earth Summits (also known as the United Nations Conferences on Sustainable Development or Rio +5, +10, etc.) held by the United Nations Department of Economic and Social affairs.

Rio +20

The most recent conference, called Rio +20 or Earth Summit 2012, took place in Rio de Janeiro, Brazil, in 2012. Its objectives were (1) securing renewed political commitment for sustainable development, (2) assessing the progress and implementation gaps in meeting previous commitments, and (3) addressing new and emerging challenges.

Continued on Next Page
Discussions focused on two main themes: (1) How to build a green economy to achieve sustainable development and lift people out of poverty, including support for developing countries that will allow them to find a green path for development. (2) How to improve international coordination for sustainable development by building an institutional framework.

The conference had strong business participation along with political, which was good since it is businesses that can help with sustainable development. It also led to an agreement to develop sustainable development goals, as well as having strengthened the UN Environment program, but also, more importantly for the oil and gas industry, promoted sustainability reporting and integration, along with making a commitment to phase out fossil fuel subsidies.

![Three pillars of sustainable development](image)

### Three pillars of sustainable development

#### After Rio +20 and Future Implications

There are now four dimensions of sustainable development: economic development, social inclusion, environmental sustainability, and good governance including peace and security. When it comes to energy, there has been a proposed goal to secure sustainable energy and double the share of renewable energy. Also, there is a goal to ensure universal access to modern energy, meaning not just renewables, but energy that will help developing nations to enable them to develop economically and safely. Along with the proposed goal at Rio +20 to phase out fossil fuel subsidies, there is also a goal to double the rate of improvement in energy efficiency.

The implications of these goals and sustainability conferences/events on the oil and gas industry affect everyone involved (NGOs, investors, governments, customers), and the direct consequences of those affected are to consider the following:

1. The role it plays in the energy mix—how it’s important/will be around and its different role around the world
2. Energy efficiency—in production of oil and gas and in use of products
3. Sustainability reporting—communicate performance to stakeholders

When considering these consequences, it might mean companies would have to consider alternatives, change portfolios, find balance between energy efficient investments and outputs, and become more transparent to stakeholders not just for PR, but to get to the point of challenges and struggles and to find solutions.

*Continued on Next Page*
Oil and gas industry's role in sustainability

The oil and gas industry has an important role in sustainability and achieving a sustainable development. The balance between all three pillars of sustainable development will be a challenge, and a “plentiful and economic supply of energy is a requirement for the economic and social pillars of sustainable development.” Oil and gas will clearly be a big component of that energy until alternative energy sources become more economical and widespread. During that transition, “the oil and gas industry has an important role to play in managing its operations safely and in reducing emissions, discharges and ecological impact while providing energy at a reasonable cost.” In the meantime, the industry can work now in trying to improve all areas of sustainability and their impact on the environment, economy, and society.

With talk and discussion of reaching a peak output and subsequent depletion and decline of oil/fossil fuels, there is worry about the need for alternative fuels and the prediction of oil and gas industry companies to become obsolete. While this decline is noticeable, it is still many years in the future. “The term ‘sustainable development’ in the oil and gas industry should not be used to mean sustaining the production of the product indefinitely. Rather it should mean meeting the needs of the global society for oil and gas at a reasonable cost, safely and with minimal impact on the environment until a suitable alternate energy source is available.” Essentially, the oil and gas industry needs to learn to adapt and expand to ensure sustainable development by whatever fuels become available. “Petroleum professions have an ethical obligation to consider the most effective uses of limited, depleting, and very valuable oil and natural gas resources.”

If the main goal of sustainability and sustainable development is to make sure that the world achieves a balance of economic development, environmental responsibility, and social progress, then there is no way to accomplish this if there are many countries that do not have access to energy to develop, maintain, and improve qualities of life and societal progress. “Petroleum and its products will need to play a continuing role in extending modern quality-of-life benefits to an increasing share of the world’s population.” The role of the oil and gas industry to sustainability now is to:

1. Provide the technology, capital, trained personnel and organization to meet the needs of society for oil and gas safely and economically until alternate energy sources are available.
2. Minimize the impact of its operations on the environment.
3. Contribute to policy development by working constructively with all parts of civil society.
4. Support the social objectives of the communities in which we operate.
5. Demonstrate a high ethical standard.

Along with improving these roles, the transition to a more sustainable future means that petroleum engineers need to be looking forward by:

- Informing themselves of the breadth of the issues
- Maximizing the value of increasingly precious oil and natural gas production, while mitigating environmental impacts, and seeking ways to optimize the use of petroleum
- Supporting local development of petroleum energy resources in developing countries
- Finding ways to extend the use of oil and gas, while supporting the market entry of new energy sources through creatively hybridized systems.

For more info refer to: http://petrowiki.org/Sustainability
Announcing the SPE SJV Section Monthly Networking Bash

The January Sponsor is

Schlumberger

Thursday, January 22nd, 2015

5:30-7:30 @

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 longtime colleague.

Non-member guests are always welcome to attend.

RSVP to Matthew Minemier at mminemier@chevron.com or 661-529-0597
The SPE SJV Section would like to thank WZI for sponsoring the December 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

---

**Chevron 13 API Crude Price**

(Daily Posted Price)

Last Change
$45.03 01/05/15
-2.65

Nominal $ / Bbl

<table>
<thead>
<tr>
<th>Date</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1/2003</td>
<td>25.41</td>
</tr>
<tr>
<td>1/1/2004</td>
<td>32.85</td>
</tr>
<tr>
<td>1/1/2005</td>
<td>54.29</td>
</tr>
<tr>
<td>1/1/2006</td>
<td>61.74</td>
</tr>
<tr>
<td>1/1/2007</td>
<td>86.78</td>
</tr>
<tr>
<td>1/1/2008</td>
<td>54.13</td>
</tr>
<tr>
<td>1/1/2009</td>
<td>72.72</td>
</tr>
<tr>
<td>1/1/2010</td>
<td>103.84</td>
</tr>
<tr>
<td>1/1/2011</td>
<td>104.50</td>
</tr>
<tr>
<td>1/1/2012</td>
<td>101.67</td>
</tr>
<tr>
<td>1/1/2013</td>
<td>90.19</td>
</tr>
<tr>
<td>1/1/2014</td>
<td></td>
</tr>
<tr>
<td>1/1/2015</td>
<td></td>
</tr>
<tr>
<td>1/1/2016</td>
<td></td>
</tr>
</tbody>
</table>

Source: Chevron California Crude Oil Price Bulletin
# SJV SPE Board of Directors
## 2013-2014

<table>
<thead>
<tr>
<th>POSITION</th>
<th>NAME</th>
<th>COMPANY</th>
<th>PHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section Chair</td>
<td>Blythe Johnson</td>
<td>Chevron</td>
<td>(661) 281-5713</td>
<td><a href="mailto:BlytheJohnson@chevron.com">BlytheJohnson@chevron.com</a></td>
</tr>
<tr>
<td>Program</td>
<td>Pamela Willis</td>
<td>Aera Energy LLC</td>
<td>(661) 869-5790</td>
<td><a href="mailto:PTWillis@aeraenergy.com">PTWillis@aeraenergy.com</a></td>
</tr>
<tr>
<td>Membership</td>
<td>Tara Butler</td>
<td>Enova Solutions</td>
<td>(661) 327-2405</td>
<td><a href="mailto:Tbutler@enovaes.com">Tbutler@enovaes.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Jeff Kim</td>
<td>Oxy Inc.</td>
<td>(661) 412-5507</td>
<td><a href="mailto:Jeff_kim@oxy.com">Jeff_kim@oxy.com</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Keith Kostelnik</td>
<td>Vintage Production Calif.</td>
<td>(661) 412-5580</td>
<td><a href="mailto:Keith_Kostelnik@oxy.com">Keith_Kostelnik@oxy.com</a></td>
</tr>
<tr>
<td>Surface Study Group</td>
<td>Indar Singh</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5243</td>
<td><a href="mailto:ISingh@aeraenergy.com">ISingh@aeraenergy.com</a></td>
</tr>
<tr>
<td>Sub-Surface Study Group</td>
<td>Mojtaba (Reza) Ardali</td>
<td>Oxy Inc.</td>
<td>(661) 412-5536</td>
<td><a href="mailto:Mojtaba_Ardali@oxy.com">Mojtaba_Ardali@oxy.com</a></td>
</tr>
<tr>
<td>Newsletter Editor</td>
<td>Mojtaba (Reza) Ardali</td>
<td>Oxy Inc.</td>
<td>(661) 412-5536</td>
<td><a href="mailto:Mojtaba_Ardali@oxy.com">Mojtaba_Ardali@oxy.com</a></td>
</tr>
<tr>
<td>Newsletter Co-Editor</td>
<td>David Susko</td>
<td>Baker Hughes</td>
<td>(661) 336-3408</td>
<td><a href="mailto:David.Susko@bakerhughes.com">David.Susko@bakerhughes.com</a></td>
</tr>
<tr>
<td>Website Administration</td>
<td>Craig Pauley</td>
<td>Chevron</td>
<td>(661) 391 4360</td>
<td><a href="mailto:CraigPauley@chevron.com">CraigPauley@chevron.com</a></td>
</tr>
<tr>
<td>Continuing Education Program</td>
<td>Rakesh Trehan</td>
<td>Oxy Inc.</td>
<td>(661) 412-5486</td>
<td><a href="mailto:Rakesh_Trehan@oxy.com">Rakesh_Trehan@oxy.com</a></td>
</tr>
<tr>
<td>Continuing Education Arrangements</td>
<td>Matthew Merrimer</td>
<td>Chevron</td>
<td>(661) 448-84015</td>
<td><a href="mailto:mminemier@chevron.com">mminemier@chevron.com</a></td>
</tr>
<tr>
<td>Activities</td>
<td>Tom Hampton</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5227</td>
<td><a href="mailto:TJHampton@aeraenergy.com">TJHampton@aeraenergy.com</a></td>
</tr>
<tr>
<td>Community Outreach Education</td>
<td>Cenk Temizel</td>
<td>Aera Energy LLC</td>
<td>(661) 665-5227</td>
<td><a href="mailto:CTemizel@aeraenergy.com">CTemizel@aeraenergy.com</a></td>
</tr>
<tr>
<td>Young Professionals Liaison</td>
<td>Jesse Frederick</td>
<td>WZI Inc.</td>
<td>(661) 326-1112</td>
<td><a href="mailto:jfrdrck@wziinc.com">jfrdrck@wziinc.com</a></td>
</tr>
<tr>
<td>Award Nominations</td>
<td>Tom Walsh</td>
<td>Petrotechnical Resources</td>
<td>(907) 230-9840</td>
<td><a href="mailto:twalsh@petroak.com">twalsh@petroak.com</a></td>
</tr>
<tr>
<td>Western NA Regional Director</td>
<td>Dayanand Saini</td>
<td>CSUB</td>
<td>(661) 654-2661</td>
<td><a href="mailto:dsaini@csub.edu">dsaini@csub.edu</a></td>
</tr>
<tr>
<td>Student Chapter Faculty Advisor</td>
<td>Cristian Garcia</td>
<td>CSUB</td>
<td>(661) 802-3058</td>
<td><a href="mailto:csub.spe@outlook.com">csub.spe@outlook.com</a></td>
</tr>
<tr>
<td>Student Chapter President</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 barbeque 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
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
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.
An Overview of Heavy Oil Recovery

Instructor: Dr. Behrooz Fattahi

Date: February 10th, 2015 (8:00 am to 5:00 pm)

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

Announcement:

SJV-SPE is proudly sponsoring “An Overview of Heavy Oil Recovery”. This one-day course is intended to provide an overview of heat and fluid flow in heavy oil reservoirs.

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 $940 per person. Lunch and beverages are included.


If you intend to pay for this class in a different manner, please contact CraigPauley@chevron.com

Target Audience:

The course is designed to serve as an introductory course in heavy oil recovery, providing background on a variety of heavy oil recovery techniques, with emphasis on steam injection recovery. Reservoir, production, and facilities engineers, geologists, and technicians, as well as their managers, participating in heavy oil production activities, will benefit from this course.

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.

Course Outline:

- Global demand and supply of energy
- Steamflood management
- Analytical heating models
- Well completions
- Post-steam injection recovery
- Surface facilities
- Screening, selection, design, and implementation
- Field experiences
- Other heavy oil recovery methods
- Basic concepts of thermal enhanced recovery
- Fundamentals of steam injection process and mechanics of recovery
- Considerations in steam injection projects development and operation

Instructors Biography:

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

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

Dr. Fattahi is a past member of the American Institute of Aeronautics and Astronautics, and American Association of University Professors, and has served as a member of the United States National Petroleum Council. He has held many roles within Society of Petroleum Engineers International (SPE) leadership, including the Executive Editor of the SPE Reservoir Evaluation and Engineering Journal, Director of the Western North America Region, President of SPE Americas Inc., and Vice President-Finance. Dr. Fattahi served as the 2010 President of SPE International. In retirement, he remains active as a member of the Board of the SPE Foundation, and as the 2014 President of the American Institute of Mining, Metallurgical and Petroleum Engineers, AIME.

Special Requirements: none
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.

B31.3 Process Piping Code

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.

Upcoming Classes:

Basic Transient Test Analysis: May 19th/20th.

Production Decline Analysis for Vertical and Horizontal Wells: September 2nd/3rd.

Additional details will be available in the future.
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.
Freeport-McMoRan Oil & Gas

Freeport-McMoRan Oil & Gas, formerly Plains Exploration & Production Company, is a wholly owned subsidiary of Freeport-McMoRan Copper & Gold Inc., a premier U.S. based natural resources producer. Freeport-McMoRan has oil and natural gas assets primarily in North America, including the Deepwater Gulf of Mexico, onshore and offshore California, the Rocky Mountain region, the Eagle Ford and Haynesville shale plays and the emerging ultra-deep gas trend onshore in South Louisiana and on the Shelf of the GOM.

CAREER OPPORTUNITY

SENIOR DRILLING ENGINEER

Plan and implement all phases of well drilling activities. Responsible for drilling engineering and operations for all wells in assigned areas. Responsible for designing vertical, directional & horizontal oil & gas wells. Responsibilities include not only planning, designing & executing the well construction program, but also administering day-to-day drilling operations in the assigned area. Some field work is necessary. Provides technical data, well research and cost estimates to drill to proposed total depth through running cementing the production casing in the most efficient and prudent manner. May be involved in completion and workover operations. Administers various plans, policies and programs related to drilling activities; work closely with contract crews to insure efficient, safe operations; while keeping Drilling Manager advised on progress of drilling activities.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Plan and implement all phases of planning and operations for wells drilled in assigned areas.
- Prepare cost estimates and AFE’s for the drilling of wells.
- Evaluate offset drilling data to build correlation packages for estimating well costs.
- Develop the well program for drilling.
- Assist in providing 24 hour supervision on well sites and direct the operations through appropriate field personnel.
- Actively participate in Operational Team consisting of Drilling, Land, Geology, Reservoir, Production, and EHS Personnel.
- Coordinate all necessary permitting requirements. Stay abreast of state and federal laws and regulations as applicable.
- Prepare work scope and evaluate the bidding of goods and services for drilling operations.
- Enforce E&P safety and environmental policies and procedures.
- Represent the Company’s Drilling Department at departmental and joint interest meetings.
- Process and route for correct filing field generated paperwork. Review, code and approve vendor invoices on a timely basis. Organize and maintain files on drilling operations.
- Interact daily with contract personnel, and time to time with federal, and state regulatory agencies.

POSITION SPECIFICATIONS:

- Must have a B.S. degree in Petroleum Engineering or related field
- 10+ years California experience in the oil and gas industry as a drilling engineer employed by major or Independent oil company required.
- Expertise in thermal drilling operations and directional & horizontal drilling is necessary.
- Field operations/rig supervision experience is an advantage.
- Experience with onshore drilling rigs. Deep water, barge, platform, jack-ups and floating drilling experience will be considered a plus.
- Previous field drilling experience is desirable.
- Must have a working knowledge of state and federal regulatory laws and regulations.
- Must be proficient with personal computers and spreadsheet software. Working knowledge of Windows, Excel, e-mail, database management and local area networks.
- Must be able to deal logically and effectively with all levels of management.
- Must be proficient with staff work including oral and written communications.

HOW TO APPLY

Successful candidates will enjoy a generous compensation and benefits package. Qualified applicants must have authorization to live and work in the United States. Sponsorship is not available. Visit our website to apply: www.fcx.com or to mail: Attn: Human Resources, 1200 Discovery Dr., Suite 100, Bakersfield, CA 93309 or Fax 661-395-5283 EOE, M/F/D/V
Our team just got 450 times better

With our 450 new team members from Processes Unlimited, we're expanding our oil & gas EPCM services in the United States. Together, our team of 1,800 is exploring new opportunities, and finding more creative ways to meet your needs.

Design with community in mind
300% Increase in Downhole Pump Run Life

A recent Six Sigma Study shows 300% increase in downhole pump run life.

Watch this 2 minute video comparing a downhole pump with a conventional plunger vs. a FARR plunger, [Click here](#). You will be amazed.

By making one small change in your downhole pumps, you will experience:

1. Reduce rig count on lease.
2. Reduce personnel and vehicles on lease.
3. **Reduce Health & Safety incidents.**
4. Reduce Exposure to Environmental Spill Incidents.
5. Reduce Operating Expenses and Save your company Money.

You don’t even have to change your pump shop or pump supplier, just request a FARR Plunger in your next pump.

Muth Pump has been in business for more than 15 years and we have more than 15,000 FARR Plungers in wells in 17 states in the USA and in 10 different countries. It is proven technology that works.

Please visit our website [www.muthpump.com](http://www.muthpump.com) or give us a call for more information.

"By FARR, We Make Your Rod Pumps The Best In The Industry!"

MUTH PUMP LLC

4308 Resnik Court #206

Bakersfield, CA 93313

Office (661) 588-8700

Fax (661) 836-1512
Advertising Order Form for the monthly newsletter of the San Joaquin Valley Section of Society of Petroleum Engineers
SJV Section of SPE, PO BOX 21135, Bakersfield, CA 93390
sjv.spe.org
Taxpayer ID# 75-2001539

Company Information:
Company: 
Address: 
City, State, Zip: 
Business Phone: 
Fax: 
Contact Name: 
Date of Request: 

Monthly Advertising Rates: (circle one)

<table>
<thead>
<tr>
<th>Size, inches</th>
<th>Rate, $ / Month</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 X 3.5</td>
<td>$25.00</td>
<td>(One business card size)</td>
</tr>
<tr>
<td>4 X 3.5</td>
<td>$50.00</td>
<td>(Two business cards size)</td>
</tr>
<tr>
<td>6 X 3.5</td>
<td>$75.00</td>
<td>(Three business cards size)</td>
</tr>
<tr>
<td>8 X 3.5</td>
<td>$100.00</td>
<td>(Four business cards size)</td>
</tr>
<tr>
<td>10 X 3.5</td>
<td>$125.00</td>
<td>(1/2 page, one column)</td>
</tr>
<tr>
<td>2 X 7</td>
<td>$50.00</td>
<td>(Two business cards size)</td>
</tr>
<tr>
<td>4 X 7</td>
<td>$100.00</td>
<td>(Four business cards size)</td>
</tr>
<tr>
<td>5 X 7</td>
<td>$125.00</td>
<td>(1/2 page)</td>
</tr>
<tr>
<td>6 X 7</td>
<td>$150.00</td>
<td>(Six business cards size)</td>
</tr>
<tr>
<td>10 X 7</td>
<td>$250.00</td>
<td>(full page)</td>
</tr>
</tbody>
</table>

Advertising Order Form:
Ad Size
One Month Cost
# Months Run
TOTAL Due:

Start Date:     Paid in Full

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

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

Special Instructions:

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

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

Mojtaba (Reza) Ardali, SPE Board Member
Oxy Inc
Or Preferably Email to
Mojtaba_Ardali@oxy.com