Inside this issue:

General Section Meeting 2
From the Chair 3
SPE Board Information 4
Professional Spotlight 5
Oil and gas in California 6
SPE Chili Cook-off 8
SPE SJV Student Chapter 10
Courses 11
Advertisements 17

Visit our website
http://connect.spe.org/SJV/
September 18, 2014 General Section Meeting

Topic: Emerging technologies in oil and gas can help solve the water crisis in California

Speaker: Bailey Brupbacher, Enviro-Tech Systems

Date: Thursday, September 18, 2014 @ 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 September 16th, 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=YCRQNKXXXJ4U4L

NON-MEMBERS

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=QMVT8BGPYCEHG

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 face of quite possibly the worst drought in California history, how can our industry help rather than hinder this crisis? Through the use of emerging technologies, such as multistage hydraulic induced gas flotation and microbubbles as well as real-time monitoring of oil and grease concentrations from remote locations, we have been able to exponentially improve oil removal capabilities while eliminating the majority of the mechanical aspects of such a process. Through the combination of these new technologies and building on proven methods, we have been able to streamline the process of produced water treatment and in doing so, offer a new, simpler, more reliable method of water treatment and more importantly a larger source of usable water.

SPEAKER

Bailey Brupbacher - Western Regional Manager of Business Development at Enviro-Tech Systems.

Originally from Covington, Louisiana. Graduated from the University of Southern Mississippi with a marketing degree. Four years of oil field experience mainly in the water treatment and produced water areas of focus in the Gulf of Mexico Region. Relocated to Bakersfield California in August 2013 to open an office for Enviro-Tech Systems.
Dear Members

SPE’s mission is to “to collect, disseminate, and exchange technical knowledge” about the oil and gas industry. As members, we are given many opportunities to share and learn through workshops, courses, conferences and networking activities. There are also some additional benefits that come with being an SPE member (http://www.spe.org/members/benefits.php):

- discounts on registration for conference, workshops and courses
- access to OnePetro with more than 90,000 technical papers
- discounts on car rental from Avis, Budget, Hertz
- discounts on health, life, auto, and homeowner insurance programs

You can also help grow the SPE community through recruiting. Members can get awards for recruiting new members (http://www.spe.org/recruit/index.php). There is also a recruiting contest where you can be entered into a quarterly drawing to win $300.

SPE News for September

We will be hosting our first Chili cook off in October. We invite members and nonmembers to enter in the contest. We will be offering tasting passes so people can taste and vote for the best chili. In our effort to support the Engineering program at CSUB, all the proceeds from the event will go to buying a couple sets of the SPE Engineer Handbooks to donate to the CSUB library.

There are several conferences and workshops being held this month:

- SPE Environmental Stewardship in Oil and Gas Development in Austin, TX on September 23-25, 2014. http://www.spe.org/events/14au2/
- SPE Subsea Well Abandonment Workshop in Houston, TX on September 23-24, 2014. http://www.spe.org/events/14ahou/

Sincerely,
Your SJV SPE 2014-2015 Chair,
Blythe Johnson
## 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>
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<td><a href="mailto:chris.reedy@live.com">chris.reedy@live.com</a></td>
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</table>
PROFESSIONAL SPOTLIGHT

Bobby Arnold

This month we get to know a little more about a member whose first taste of the oilfield was a summer job. His involvement with SPE started in college 31 years ago. Meet Bobby Arnold, Operations Manager here in Bakersfield for Baker Hughes Upstream Chemical.

SPE SJV: How did you decide you wanted to be part of the petroleum industry?

Bobby: My father was in the Air Force. I was born in Japan and lived in a number of places before our family finally moved to Alaska when I was 11. My mother worked as a buyer for Sohio-BP and I got a job with them as a stick-picker on the North Slope right out of high school. At the University of Wyoming, I went for engineering and they asked me what I wanted to study. I mentioned my time in the oil field and they suggested petroleum engineering. After college, I packed everything up with the wife and the kid and moved back to Alaska. I started with BJ Hughes in 1984 working with the first generation of computers used on stimulation treatments.

SPE SJV: What are some of your contributions to the industry?

Bobby: My mentor hired me away to a company called ChemLink based on my work developing mutual solvents. There I focused on more specific chemistry for well remediation and scale inhibition. I published a number of papers on the topic of remediation chemistry.

SPE SJV: What brought you to the San Joaquin Valley?

Bobby: I transferred here in 2001 with Baker Petrolite as an account manager for Elk Hills. One of their key chemicals was something I had a lot of experience with while running a pilot corrosion mitigation program on the Slope.

SPE SJV: How do you spend your personal time?

Bobby: I like to spend time with my wife and fortunately she likes to golf as much as I do. We try to get back to Alaska a few times a year to visit parents, kids, and grandkids.
Oil and gas industry in California: a brief overview

Oil and gas industry in California has been a major industry for over a century. According to DOGGR (Division of Oil, Gas & Geothermal Resources), the first commercial oil production started in 1876 in California. Oil became a major California industry in the 20th century with the discovery on new fields around Los Angeles and the San Joaquin Valley, and the dramatic increase in demand for gasoline to fuel automobiles and trucks. California drilling operations and oil production are concentrated primarily in Kern County, San Joaquin Valley and the Los Angeles basin.

California oil production averages about 577.3 thousands barrel per day in 2013 (DOGGR, 2013). There are around 204 active oil fields and 91 gas fields in California. More than 52,186 oil wells and 1,639 dry gas wells were operating in the state in 2009 (DOGGR, 2009). California is ranked the third state in daily oil production in the US after Texas and North Dakota (US EIA, 2014). Currently, Midway-Sunset oil field is the largest producing oil field in the state. Elk Hills field is the largest gas producing field and Rio Vista Gas field is the largest field producing non-associated gas (DOGGR, 2013).

Top 10 oil producing fields in California (DOGGR 2013)

<table>
<thead>
<tr>
<th>Field</th>
<th>Discovery Date</th>
<th>Average daily production (2013), bbls/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midway-Sunset</td>
<td>1894</td>
<td>78,904</td>
</tr>
<tr>
<td>Kern River</td>
<td>1899</td>
<td>70,411</td>
</tr>
<tr>
<td>Belridge, South</td>
<td>1911</td>
<td>64,384</td>
</tr>
<tr>
<td>Cymric</td>
<td>1909</td>
<td>39,726</td>
</tr>
<tr>
<td>Elk Hills</td>
<td>1911</td>
<td>35,088</td>
</tr>
<tr>
<td>Lost Hills</td>
<td>1910</td>
<td>29,589</td>
</tr>
<tr>
<td>Wilmington</td>
<td>1932</td>
<td>26,849</td>
</tr>
<tr>
<td>San Ardo (NR)</td>
<td>1970</td>
<td>19,726</td>
</tr>
<tr>
<td>Coalinga</td>
<td>1989</td>
<td>15,068</td>
</tr>
<tr>
<td>Ventura</td>
<td>1919</td>
<td>14,247</td>
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</table>

Top 5 associated gas producing fields in California (DOGGR, 2013)

<table>
<thead>
<tr>
<th>Field</th>
<th>Discovery Date</th>
<th>Average Production (2013), MMSCFD</th>
</tr>
</thead>
<tbody>
<tr>
<td>ElkHills</td>
<td>1911</td>
<td>242</td>
</tr>
<tr>
<td>Lost Hills</td>
<td>1910</td>
<td>25</td>
</tr>
<tr>
<td>Belridge, South</td>
<td>1911</td>
<td>24</td>
</tr>
<tr>
<td>Buena Vista</td>
<td>1909</td>
<td>23</td>
</tr>
<tr>
<td>Midway-Sunset</td>
<td>1894</td>
<td>14</td>
</tr>
</tbody>
</table>

Top 5 non-associated gas producing fields in California (DOGGR, 2013)

<table>
<thead>
<tr>
<th>Field</th>
<th>Discovery Date</th>
<th>Average Production (2013), MMSCFD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rio Vista Gas</td>
<td>1936</td>
<td>26.8</td>
</tr>
<tr>
<td>Willows Beehive</td>
<td>1938</td>
<td>14.5</td>
</tr>
<tr>
<td>Bend Gas</td>
<td>1960</td>
<td>13.7</td>
</tr>
<tr>
<td>Grimes Gas</td>
<td>1960</td>
<td>8.5</td>
</tr>
<tr>
<td>West Grimes Gas</td>
<td>1960</td>
<td>4.4</td>
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</tbody>
</table>
California has 18 major oil fields and 2 major gas fields in the top 100 oil and gas fields in the US (listed by EIA based on proved reserves).

The top 100 fields had 14 billion barrels of proved reserves of crude oil plus lease condensate in 2009, or about 63 percent of the U.S. total. Alaska’s Prudhoe Bay field was the country’s largest oil field in 2009 followed by the Spraberry Trend Area of Texas, Mississippi Canyon Blocks 807 and 778 fields in the Gulf of Mexico (EIA, 2009).

### Top 5 associated gas producing fields in California, 2013

<table>
<thead>
<tr>
<th>Rank</th>
<th>Field Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Belridge South</td>
</tr>
<tr>
<td>9</td>
<td>Midway-Sunset</td>
</tr>
<tr>
<td>10</td>
<td>Elk Hills</td>
</tr>
<tr>
<td>11</td>
<td>Kern River</td>
</tr>
<tr>
<td>19</td>
<td>Wilmington</td>
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</tbody>
</table>

California oil fields in the US top 100 list (EIA, 2014).

### Rank in Top 100

<table>
<thead>
<tr>
<th>Field Name</th>
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<tbody>
<tr>
<td>Elk Hills</td>
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<tr>
<td>Hondo</td>
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<tr>
<td>Lost Hills</td>
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<tr>
<td>Ventura</td>
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<td>Sacate</td>
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</table>

California gas fields in the US top 100 list (EIA, 2009).
SPE Chili Cook-off

October 11th, 2014

Test your cooking skills at the SPE SJV chapter Chili Cook-off. All proceeds will go towards a set of SPE Engineering Handbooks to be donated to the CSUB Library. All contestants will be judged by attendees who have purchased tasting passes for the “Best Chili” title.

Date: October 11th

Time: 4pm – 7pm (Tasting from 4-6:00pm, raffle prize drawing at 6:00pm, Winner for “Best Chili” title announced at 6:30pm)

Location: Lengthwise Brewery, 6720 Schirra Ct, Bakersfield

Tasting Passes (buy a tasting pass to taste the chili and vote for the best chili):

Purchase thru Paypal till 10/9/14 - (If purchase with paypal please print a copy of your receipt to bring to check-in table day of the event for proof of purchase)

SPE Members $10

https://www.paypal.com/cgi-bin/webser?cmd=_s-xclick&hosted_button_id=TSX4UVLKUU2WY

Non-members $15

https://www.paypal.com/cgi-bin/webser?cmd=_s-xclick&hosted_button_id=4EV29GFRMAVRL

At the door:

SPE Members $15

Non-Members $20

100% of proceeds to purchase SPE Engineering Handbooks for CSUB engineering program

Raffle tickets for door prizes $5 for 5 tickets
Contestant Form – Chili Cook-off

October 11th

Name (Individual/Team): __________________________________________

Team member names: ____________________________________________

Address: ________________________________________________________

Phone: _____________________           Email:_______________________

APPLICATION DEADLINE: October 3rd

Tables will be provided with 2 contestants per table and teams will have a full table.

Participants will receive the number of expected attendees to serve by October 8th (serving size up to contestant).

There is no charge for contestants or additional help.

Contestants will receive 2 free tasting pass.

Setup time: 3:30pm-4:00pm

Judging time: 4:00pm-6:00pm

Winner announced at 6:30pm

Electrical outlet needed?       _____ Yes      _____ No

Number of staff or volunteers _______    Number of chairs (1,2,3) _______

Email to: BlytheJohnson@chevron.com
Event:
SPE SJV Student Chapter September General Meeting

Description:
SPE general meeting regarding: membership enrollment, quarterly objectives, general introduction, etc.

Guest Speaker: Tom Hampton, Aera Senior Reservoir Engineer, SJV SPE Board Member, Community Outreach

Target Audience:
Students pursuing management, engineering, science and other professional opportunities worldwide in the oil and gas industry.

Details:
Date: September 25, 2014
Time: 07:15 p.m.
Location: CSUB, Science III Building, Room 108

RSVP to csup.spe@outlook.com
Data Driven Analytics for Reservoir and Production Optimization

Instructor: Andrei S. Popa, Ph.D.

Date: Tuesday, September 16th, 2014 (8:00 am to 5:00 pm)

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

Announcement:

SJVSPE is proudly offering Data Driven Analytics for Reservoir and Production Optimization. This one day short course is intended to cover the fundamentals of Data Mining (DM) and Artificial Intelligence (AI) techniques as applied to the oil and gas industry. This course is designed for engineers, geoscientists, technical managers, and engineering technologists who are interested in learning how to apply Data Mining and Artificial Intelligence techniques to solve complex optimization problems.

In this course you will learn:

- History and fundamentals of the Artificial Intelligence in the oil & gas industry
- Basics of Data Mining techniques and tools
- How to identify problems suitable for application of Data Mining
- How to define workflows and apply the appropriate tools

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 the PayPal Website (below). The price of this course is $950. Lunch and beverages are included.

RSVP & Paypal Payment Link:

Data Driven analytics for Production and Reservoir Optimization

Target Audience:

Engineers, geoscientists, technical managers, engineering technologists who are interested in learning how to apply Data Mining and Artificial Intelligence techniques to solve complex optimization problems, for day to day production operations as well as reservoir optimization and development.

Continued on next page……
Description:
This one day short course is intended to cover the fundamentals of Data Mining (DM) and Artificial Intelligence (AI) techniques as applied to the oil and gas industry. This course is designed to provide a solid foundation to those interested in learning how to use both basic and advanced intelligent tools in solving complex optimization problems. The attendees will first learn the theoretical background of AI&DM tools including clustering techniques, neural networks, genetic algorithms, fuzzy logic and case-based reasoning. Then, they will be introduced to a suite of real world production and reservoir optimization cases and the solutions developed using single or hybrid Artificial Intelligence tools. The course wraps-up with a demonstration of a problem set-up, methodology workflow and proposed solution.

Course Content:
- Data Mining and Artificial Intelligence overview
- Clustering Techniques (Hard C-mean, Fuzzy C-mean, ACO, etc)
- Neural Networks, Genetic Algorithms, Fuzzy Logic, Case-Based Reasoning
- Hybrid Intelligent Systems
- Review of practical industry applications (optimization, pattern recognition, forecasting)

Instructor:
Dr. Andrei Popa has over 14 years of experience applying Artificial Intelligence technologies to complex optimization problems in the energy industry. He has published more than two dozen papers on the subject, and most recently co-author the book “Artificial Intelligence & Data Mining (AI&DM) Applications in the Exploration and Production Industry”, part of SPE's "Get Up To Speed" Series. Andrei’s service within industry organizations has earned him several awards including the 2011 SPE “Management and Information Award” for Western North America Region, and the international SPE version of the same award, in 2013. He is a Technology Advisor for the Applied Reservoir Management team at Chevron’s San Joaquin Valley Business Unit. Since joining Chevron in 2002, Andrei has had multiple assignments including production and reservoir engineer, special projects lead engineer, and subsurface team lead. Since 2009 he has taught "Applied Reservoir Engineering" and "Natural Gas Engineering" at University at Southern California, and served as a guest lecturer for several course within the “Smart Oilfield” program.

Dr. Popa earned his Ph. D. and M.S. degree in Petroleum and Natural Gas Engineering from the West Virginia University and he holds a B.S. degree in Petroleum and Natural Gas Engineering from the University of Ploiesti.
Understanding and Applying Logs – Intro to Petrophysics

Instructor: Mr. Gary Batcheller, GWB Consultants
Date: October 6th-8th, 2014  (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Description:

The first two days of this 3-Day workshop will illustrate log responses to rocks and their fluids. Once these simple relationships (common throughout the world) are understood, you will be able to easily recognize permeability, hydrocarbons, and rock and fluid types. The workshop will include:

- Finding permeability and salt water from resistivity logs
- Fluid and rock type identification from “porosity” logs
- Hydrocarbon identification and net pay estimations
- “Interpretation at a glance” techniques
- Gas and clay/shale effects on logs
- Uses and the limitations of open hole logs
- Heavy oil examples
- Steam injection temperature surveys

The third day illustrates techniques for recognizing log validity and provides additional information on log limitations. These easy-to use procedures will help participants determine the reliability of log data. This data is often used in making important and costly decisions. This day has been updated to include an introduction for the evaluation of rocks with organically rich materials and with extremely low permeability. These potential reservoirs are often referred to as a resource plays or “shales”.

The overall production for these reservoirs depends upon the success of fracture treatments and a section has been included for the introduction to rock mechanics in both vertical and horizontal wells. In addition, current completion techniques for fracturing horizontal wells will be discussed. Professional staff and managers will find this workshop essential to decision making. The third day will include:

- Using various techniques including offsets to validate logs
- Individual log checks and limitations
- Source rock/reservoir or resource play Interpretation – aka “Shales”
- The “Shale” revolution and introduction to rock mechanics
- Introduction to horizontal completion techniques – How successful are they?

Comments from previous workshops include: “Excellent overall descriptive review of open hole logs – Done in a concise practical manner”, “It’s practical applications – Good job on being concise and to the point”.
Understanding and Applying Logs – Intro to Petrophysics

**Target Audience:** All professionals involved in the application of logs in the oil and gas industry can benefit from this workshop. Techniques will be presented to ensure students that they will be able to make professional decisions using logs. Both technical and non-technical personnel have benefited from these techniques. For those involved in completions, this will help them gain more understanding into how those work, in conjunction with rock properties. A complete workbook and actual log examples will help the student to interpret and understand the uses of logs. Practical exercise will enable you to learn these techniques easily and make better decisions immediately. Over 3,000 personnel in the industry have made better decisions and saved money using techniques from this program.

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

**Payment & Cost:**
Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail), or register & pay with a credit card via the PayPal Website (below). The price of this course is $2,250. Lunch and beverages are included.

**RSVP & Paypal Payment Link:**
PayPal Link for Understanding and Applying Logs - Intro to Petrophysics

**Instructor:**
Mr. Gary Batcheller has operated GWB Consultants, a technical training and services firm in Oklahoma City since 1989. He was employed for 18 years at Schlumberger Well Services, and held various positions including a training coordinator. Mr. Batcheller has held log workshops for the Society of Petroleum Engineers and over 250 companies worldwide and authored two papers on the evaluation of lightweight cement one on finding low resistivity pay in air holes. He holds a BSc degree in Physics from Texas Technological University and is a member of SPE, API, SPWLA. He received two SPE service awards including - Award for Distinguished Contribution to Petroleum Engineering in the Area of Formation Evaluation 2011.
Evaluating Cement Integrity – Using today’s Logs

Instructor:  Mr. Gary Batcheller, GWB Consultants

Date:  October 9th & 10th, 2014  (8:00 am to 5:00 pm)

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

Description:
This 2-Day workshop will illustrate the application of cement logs for cement evaluation which is essential to consistently successful decisions. Highly deviated to horizontal logs are part of the focus. Actual log examples are utilized to illustrate and practice with different type of logs and allow a comparison for log quality. Evaluation using easy applied interpretation techniques and making squeeze or no squeeze decisions. Included are practical guideless for the successful evaluation of cement integrity. The workshop will include:

- Effects of quality control and the CBL’s undoing
- Reliable interpretation techniques
- High angle and horizontal unique problems
- Mud removal techniques discussed
- Radial acoustic logs with 8 to 16 measurements
- New Technology – its value and limitations
- Identifying Potential problems with cement integrity
- The use of open hole logs to enhance CBL/VDL interpretation
- Understand new interpretation techniques available for light weight, or complex cements

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 the PayPal Website (below). The price of this course is $1,630. Lunch and beverages are included.

RSVP & Paypal Payment Link:  PayPal link for Evaluating Cement Integrity

Target Audience:
This workshop will apply to those professional involved in cementing, completions and work-over operations. California has more foam or light weight cements pumped than in any other part of North America, and its unique evaluation problems are detailed. Many examples are used to help students evaluate log quality and practice evaluation techniques. Over 2,200 personnel in the oil and gas industry have made better decisions and saved money, employing techniques from this workshop.

Instructor:
Mr. Gary Batcheller has operated GWB Consultants, a technical training and services firm in Oklahoma City since 1989. He was employed for 18 years at Schlumberger Well Services, and held various positions including a training coordinator. Mr. Batcheller has held log workshops for over 275 companies worldwide and authored three papers including “Cement Evaluation Challenges in Horizontal Wells – Guidelines for Providing Meaningful Data” SPE 164513 on 23-26 March 2013 and two on the evaluation of lightweight cement. He has developed simplified and practical techniques to enable industry professionals to better understand logs and their applications. He holds BS degree in Physics from Texas Technological University. He received two SPE service awards including - Award for Distinguished Contribution to Petroleum Engineering in the Area of Formation Evaluation 2011.
“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 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 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: API Tank Class November 2014

RSVP: Please RSVP to CraigPauley@chevron.com

Target Audience:

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

Course Outline:

Day One: Large Atmospheric Tanks (API-650) - 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.
We match up the latest innovations with breakthrough thinkers to expand what’s possible. In Bakersfield, you’ll collaborate with the best in the industry on leading-edge projects like cogeneration, enhanced oil recovery, and digital iFields. At Chevron, you’ll join a team with the technology to take on big challenges, the integrity to do it responsibly, and the drive to keep the world moving forward.

**Are you up to the job?** Learn more about Bakersfield engineering opportunities at [chevron.com/BakersfieldJobs](http://chevron.com/BakersfieldJobs)

**JOIN THE CHALLENGE.**

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Petroleum Drilling Engineer
DO NOT SUBMIT A RESUME
Click the following link for job description and directions for filing.
https://jobs.ca.gov/JOBSGEN/4LN03.PDF
If you have any questions please contact:
California State Lands Commission Human Resources
(916) 574-1910

Petroleum Production Engineer
DO NOT SUBMIT A RESUME
Click the following link for job description and directions for filing.
https://jobs.ca.gov/JOBSGEN/4LN04.PDF
If you have any questions please contact:
California State Lands Commission Human Resources
(916) 574-1910

Note: 10% discount in September for SPE Members
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 ensure 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

Stantec
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
APPLICATION FOR ACADEMIC EMPLOYMENT

Position Applied For:

Personal:

Name (Last) ___________________________ First ___________________________ Middle ___________________________ Social Security Number ___________________________

Street Address: ___________________________ City: ___________________________ State: ___________________________ Zip: ___________________________

Home Telephone: ___________________________ Message Telephone: ___________________________

Do you have any existing physical or mental condition that would prevent you from performing the essential functions of the position for which you are applying? Yes________ No________

If yes, please describe this condition: ___________________________

Have you ever been dismissed from any teaching position? Yes:________ No:________

If yes, please explain: ___________________________

If you have been convicted of a crime other than a minor traffic violation, you are required to discuss the nature of the offense with the personnel officer prior to employment. (Note: the existence of a criminal record does not constitute an automatic bar to employment.)

Degrees/Graduate Study:

<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>Subject Major and Minor</th>
<th>Institution</th>
<th>City/State</th>
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<tr>
<td>H.S. Diploma/GED</td>
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<td>Associate</td>
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<td>Bachelor’s</td>
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<tr>
<td>Other Grad Study</td>
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Teaching Experience (most recent first):

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<th>School or District</th>
<th>City/State</th>
<th>Teaching Assignment or Title</th>
<th>Full Time</th>
<th>Part Time</th>
<th>From (Mo/Da/yr)</th>
<th>To (Mo/Da/yr)</th>
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Work Experience:
(With most recent first, list any relevant paid, unpaid or volunteer work experience for the position for which you are applying)

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<tr>
<th>School or District</th>
<th>City/State</th>
<th>Teaching Assignment or Title</th>
<th>Full Time</th>
<th>Part Time</th>
<th>From (Mo/Da/yr)</th>
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### Armed Forces Service:

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<tr>
<th>Branch</th>
<th>Assignment</th>
<th>Total Months Service</th>
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### Other Professional Data:

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<tr>
<th>Major Teaching Field:</th>
<th>Total Semester Units in Major:</th>
<th>Minor Teaching Field:</th>
<th>Total Semester Units in Minor:</th>
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Total number of semester units since date of Bachelor's degree (1 qtr. unit – 2/3 sem. unit):

List subjects credentialed to teach:

(1)   (2)   (3)   (4)

Specific areas of emphasis in academic major or technical/vocational specialty:

List other professional activities relevant to this position:

### Credentials, Confidential Placement Papers:

<table>
<thead>
<tr>
<th>Types of California credentials now held authorizing community college services:</th>
<th>Issue Date</th>
<th>Expiration Date</th>
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Are you or have you ever been a member of the California Teachers’ Retirement System?  Yes     No

Has your credential ever been suspended or revoked?  Yes     No

Placement papers are on file with the following Placement Office:

<table>
<thead>
<tr>
<th>Address</th>
<th>City/State</th>
<th>Zip Code</th>
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Under the name of:

Does the Placement Office require the College to request your placement papers?  Yes     No

Have you requested your file be sent to the College/District?

### Professional References:

(If not registered with Placement Office – include only those who have knowledge of your teaching or work experience.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>City/State</th>
<th>Telephone</th>
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Individuals selected for academic positions are required to complete the following PRIOR to employment:

*Sign a loyalty oath.

*Provide evidence of eligibility to be employed in the U.S.

*Take and pass a physical examination at the District expense.

*Provide proof of freedom of tuberculosis by X-ray or intradermal test at the District expense.

*Provide official transcripts.

*Submit written verification of experience.

*Submit original credential(s), if appropriate.

*Submit fingerprint cards (within 10 days of employment).

I HEREBY AUTHORIZE the West Kern Community College District to obtain personnel information from any previous employers or references.

I HEREBY CERTIFY that all statements made hereon are true and correct to the best of my knowledge. I understand that any false statements made on this application may be cause for non-employment or for dismissal, if employed.

Signature: ___________________________  Date: ___________________________
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>
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</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>
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<tr>
<td>6 X 3.5</td>
<td>75.00</td>
<td>(Three business cards size)</td>
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<td>8 X 3.5</td>
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<td>(Four business cards size)</td>
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<tr>
<td>10 X 3.5</td>
<td>125.00</td>
<td>(1/2 page, one column)</td>
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<td>2 X 7</td>
<td>50.00</td>
<td>(Two business cards size)</td>
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<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>
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<tr>
<td>10 X 7</td>
<td>250.00</td>
<td>(full page)</td>
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Advertising Order Form:

Ad Size
One Month Cost
# Months Run
TOTAL Due

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

SUPPORT THE SJV SPE NEWSLETTER BY PURCHASING ADVERTISING SPACE
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Rates start at only $25/month.
E-mail the SJV SPE Newsletter Editors for more info at Mojtaba_Ardali@oxy.com