To all our SJV SPE members and friends, the board and I wish you all a Merry Christmas and Happy Holidays!!

"May Peace be Your gift at Christmas and Your blessing all year through!"

(Author Unknown)

I pray everybody can be home for Christmas!

Thank you for the opportunity to serve you.
Until Next Time,
Max Solanki
From Our November 2012 General Section Meeting

SJVAPCD Requirements for Commonly Used Equipment in Oil Production Operations

Steve Davidson was our speaker for the October GSM. Mr. Davidson has over 12 years’ experience with the San Joaquin Valley Air Pollution Control District evaluating and writing District permits in the southern portion of the Valley Air District.

The presentation focused on the Valley Air District’s requirements for commonly used equipment applied in oil production operations. While air quality has greatly improved in San Joaquin Valley over the past 20
Our section has always shown keen interest in encouraging high school students to take up science and engineering in general and petroleum engineering/geosciences major in particular. Our section now has a well-established scholarship program for high school students with $50K granted in scholarships last year, an outreach program for high school students through annual Engineering Day which was attended by over 500 students last year and this year our involvement with Shafter High is an extension of the same effort.

SPE has started working with Shafter High this year to help the students enrolled in Project Lead The Way (PLTW) program. PLTW is a national program that provides rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs used in middle and high schools across the U.S.

On November 5th, SPE teamed up with Oxy to host Shafer High students that are part of the PLTW program for a half day visit to learn about O&G industry.

Oxy provided the venue and offered Oxy staff to present to students and answer any questions and we are very thankful for Oxy’s generous support. Cynthia Lynch (SPE and Chevron) presented an overview of petroleum industry and available careers for students majoring in Geosciences and Petroleum Engineering.

(continued on next page)
SPE SJV SECTION HELPING SHAFTER HIGH SCHOOL STUDENTS LEARN ABOUT OIL & GAS INDUSTRY

(continued from previous page)

Vaughn Thompson and Juan Santiago, both from Oxy, presented an overview of what geologists do and presented a 3D model and talked about various tools used by O&G professionals to explore and produce oil and gas. Max Solanki (SPE and Oxy) shared his experience as a deep sea diver at offshore platforms. Students asked lot of questions and were excited to learn about all the opportunities that O&G industry has to offer.

Your SPE section plans to continue to support Shafter High in the future with encouraging students to stay enrolled in PLTW while in High school and consider majors in engineering sciences on graduation from high school.

The article is prepared by Omar Hayat, SPE SJV board director - Community Outreach
Ksenia Eliseeva, SPE, is district technical engineer for Schlumberger’s Pressure Pumping Services in California. Ksenia has worked in the industry since 2004 with the experience ranging from Research & Development to Operations roles in Russia and United States. Her areas of interest include well cementing, hydraulic fracturing and matrix acidizing design and evaluation. Ksenia has been an SPE member since 2004 and is a co-author of four SPE papers and four patent applications. She serves on the SPE SJV Board since 2012.

Jeff Jones is Vice President of Reservoir Engineering with E&B Natural Resources. Jeff has 40 years of experience including variety of engineering and leadership roles in production, operations, facilities, and reservoir engineering and is an industry-recognized expert in thermal enhanced oil recovery. He has worked for several oil producer companies, including Santa Fe Energy, Texaco E&P, Berry Petroleum and others. Jeff is an author of more than twenty SPE papers and has four US patents; he is a winner of multiple SPE awards as an Outstanding Technical Editor, Thermal Recovery Pioneer as well as awards for Distinguished Service and remarkable contributions to Production and Operations. Jeff has been an active SPE member for more than 30 years and has served on local SPE SJV board for more than a decade, has been a Board Chairman in 2000—2001 and an SPE Distinguished Lecturer in 2004—2005, has participated in technical and organizing committees for regional, national, and international SPE conferences and has taught multiple industry courses and lectures on thermal oil recovery. Jeff holds a BS degree in mechanical engineering from California State University, Fresno and is a Professional Engineer licensed in California.

SPE SJV: You have 40 years of experience in the industry and your entire career you have stayed in California. Why is that?

JJ: I have engineered my career around Bakersfield. I am a small-town guy, went to school in Fresno and wanted to stay with my family in the Valley. After I graduated as a mechanical engineer and started with Santa Fe Energy in Taft, I just fell in love with thermal recovery. Thermal recovery is more a mechanical engineering problem than a reservoir engineering problem. That’s what I like and that’s where I am useful. There is really no better place for it than California.

SPE SJV: Most of the producing companies you worked for were small independents. Why do you prefer small independents versus major oil & gas corporations?

JJ: Being with independent oil companies allows you to get a lot more experience and flexibility; you learn all aspects of the business. If you come up with an idea or a project—it’s yours, and...
PROFESSIONAL SPOTLIGHT: JEFF JONES
(continued from previous page)

if it ever gets done—you are the one who does it. In integrated major companies everything is compartmentalized and as a mechanical engineer you may end up being stuck doing facilities and that's all. On the other hand major corporations offer better formal education and international experience opportunities. It all depends on what the individual's goals are. I wanted to manage my career to stay in California and concentrate on thermal recovery and small independent companies worked perfectly for me.

SPESV: As an expert in thermal EOR how would you comment on steam flood technology advancements over the past 40 years and what are the future prospects?

JJ: Although steam flood has been around since 1960s, the basics have not really changed. The pioneers of thermal EOR did a good job getting 80% of the solution figured out, and we are only fine-tuning it, adding nuances: selective perforations in injectors, better steam distribution systems, etc. There are no other techniques that come even close to thermal EOR for producing heavy oil reservoirs. In addition to mature heavy oil fields in California, Venezuela and Canada the rest of the world is just starting to recognize their heavy oil resources. There are pilot projects in Kuwait, Egypt, Russia, and Eastern Europe, where steam flood will be applied more and more.

SPESV: What do you like the most about your current job?

JJ: I really enjoy working for a financially strong company with good assets. Our reservoirs are challenging: you can make them produce, it’s just a little harder and that way it’s more fun! The current economic conditions works in our favor and anything you do, if you do it right, comes out good. It has been my mantra throughout my career: “There is always a better way to do whatever is being done”. And I tell the same thing to young engineers: “Never be satisfied with what you see, there is always a better way to do it. Guaranteed.”

SPESV: California has committed to renewable energy, and aims to get a third of its electricity from renewable sources by 2020. What are your thoughts on the future of oil industry in relation to that, especially in California?

JJ: We will keep using hydrocarbons; there is no substitute for it. Electricity is not an energy source; it’s an energy transport medium, it is necessary to burn natural gas or coal somewhere to get it. Research on green energy will keep making it more efficient, but we will not move away from hydrocarbons in the next 100 years, not in our lifetimes or our kids’ lifetimes for sure.

SPESV: What advice can you share with your fellow SPE members of San Joaquin Valley?

JJ: Do your own career management and get involved in SPE as much as you can. Treat your career like a product. There is not a manager in the world that cares about your career as much as you do— it’s all in your hands. I always participated in local SPE section and I got a ton more out of it than I have given in. It’s an incredible benefit! My main advice: manage your own career, have a plan, publish papers, get on SPE committees, do the networking and you will succeed.
SPE Subsurface Study Group Lunch
Assessment of Remaining Recoverable Oil in Selected Major Oil Fields of the San Joaquin Basin, California

Speaker: Lynn Tennyson, U.S. Geological Survey
Date: Wednesday, December 12, 2012, at 11:30 a.m.
Location: Petroleum Club (12th Floor) at 5060 California Ave. in Bakersfield

RSVP via email to TJHampton@AeraEnergy.com
Or reserve via PayPal
Members ($20) Link to paypal - Member
Non-Members ($25) Link to paypal - Non-Member

Abstract:
A recent U.S. Geological Survey assessment probabilistically quantified potential additions to reserves in major U.S. oil fields. Estimates are of technically recoverable reserve additions without regard to economic constraints. We evaluated production history, estimates of oil in place, and extent of application of recovery technology, and we estimated ranges of oil in place and recovery efficiency that might be achieved in each reservoir. These were inputs for Monte Carlo simulations that yielded ranges of recoverable oil for each reservoir.

In the San Joaquin Basin, where 8 billion barrels of oil were added to reserves in existing fields from 1965 to 2005, 9 fields were evaluated. We estimated that they could yield an additional 3 to 10 billion barrels using existing technology, although projects to recover the oil may not be currently economic. Growth will continue from thermal recovery of low-gravity oil, expansion of fracturing, waterfloods, and thermal projects to recover oil from diatomites, and possibly CO₂ floods in deep sandstone reservoirs.

Biography
Lynn Tennyson earned her A.B. in Geology at Middlebury College and Ph.D. in Geological Sciences at the University of Washington. She taught geology at Whittier College (CA) and Carleton College (MN), then worked for Phillips Petroleum Company in Bartlesville, Oklahoma, and Denver, Colorado. Since 1989 she has been with the U.S. Geological Survey in Denver, where she has conducted oil and gas resource assessments and related studies in western U.S. and Canada. She is a member of the American Association of Petroleum Geologists and the Society of Petroleum Engineers.
**HIGHLIGHTS of OCTOBER**

From October 10, 2012
SPE SubSurface Study Group Lunch

“The Use of Fracture Diagnostics in Unconventional Reservoirs”.
Steve Wolhart, General Manager of Pinnacle, was our speaker for October 10\(^{th}\) SPE Subsurface lunch meeting. Steve is a thirty year member of SPE and was a SPE Distinguished Lecturer for 2001-2002. He has authored or co-authored more than thirty-five papers on hydraulic fracturing, advanced hydraulic fracture diagnostics, restimulation, and reservoir monitoring.

The presentation focused hydraulic fracture mapping for understanding hydraulic fracture behavior, completion effectiveness and reservoir complications in unconventional plays. This presentation reviewed the basics of fracture diagnostics, practical issues that must be considered during a project and keys to interpreting the results. Microseismic and micro-deformation (tiltmeter) mapping was covered. Examples and case studies will be included and recent advances was discussed.

Steve Wolhart's presentation is available at the San Joaquin SPE Website [http://connect.spe.org/SJV/](http://connect.spe.org/SJV/) or from Steve Wolhart at steve.wolhart@pinntech.com or Tom Hampton at TJHampton@AeraEnergy.com.
From November 14, 2012
SPE Surface Study Group Lunch

“Overview of H2S Removal Technologies”.

Dave Parker, General Manager of HydroCat West, was our speaker for November 14th SPE Surface lunch meeting. Mr. Parker has worked in the Petroleum industry for much of his career, beginning with 10 years in the downstream sector. For the past 20 years he has developed and supported Gas Cleanup applications, mainly for waste gas in California.

The presentation focused on outlining of various H2S treatment processes and provide some guidelines for process selection across a range of operating conditions.

Mr. Parker’s presentation will available in the San Joaquin SPE Website http://connect.spe.org/SJV/
SJV SPE Continuing Education Courses Coming Up

Jan. 23, 2013  
**SPE – Coiled Tubing and Its Applications**  
(8:00 am – 5:00 pm); $750  
University of Phoenix, Bakersfield

Mar. 11-12, 2013  
**ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance**  
(8:00 am – 5:00 pm); $1150 for SPE members, $1250 for non-members  
University of Phoenix, Bakersfield
SJVSPE Continuing Education

Coiled Tubing and Its Applications

Instructor: Ed Smalley

Date: January 23, 2013 (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Announcement:
SJVSPE is proudly offering Coiled Tubing and Its Applications. This 1-day course presents an introduction to coiled tubing (CT) as a tool for workover, drilling, and completions. It provides an overview of conventional CT applications, the properties of CT, its manufacture, surface equipment and subsurface tools. 0.8 CEUs (Continuing Education Units) awarded for this 1-day course.

Questions:
Please call Terry L. Kloth @ 661-398-5952 (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 the SPE link (below). The price of this course is $750. A morning and afternoon snack and cold and hot drinks are included. Please note lunch is not included in this price. For more details, please contact us at trainingcourses@spe.org.

RSVP & SPE Payment Link: http://www.spe.org/training/courses/CTU.php

Target Audience:
This introductory course is appropriate for those who are new to coiled tubing, and for anyone who would like to refresh or expand their knowledge.

Description:
This 1-day course presents an introduction to coiled tubing (CT) as a tool for workover, drilling, and completions. It provides an overview of conventional CT applications, the properties of CT, its manufacture, surface equipment and subsurface tools. A significant portion of the course covers mechanical performance, including working limits, buckling, lockup and fatigue. There will also be a discussion of drilling technology and hydraulics.

Instructor:
Ed Smalley has more than 30 years of oilfield experience, including new product development, field operations, sales and management. His expertise includes coiled tubing, formation evaluation, coalbed methane, hydraulic fracturing and the commercialization of emerging technology. Smalley began his career with Schlumberger and held various positions in sales and operations. He later joined the Gas Technology Institute, where as director of E&P business development he spearheaded the commercial launch of more than 60 new E&P products. Smalley is currently the general manager of National Oilwell Varco’s Coiled Tubing Equipment Services (NOV CTES) in Conroe, TX. Smalley holds a BS in Engineering from Kansas State
ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance

Instructor: Mr. Mohammad A. Malek, PH.D., P.E.
Date: March 11, 2013 – March 12, 2013 (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Announcement:
SJVSPE is proudly sponsoring the ASME Course – PD583- This is an intensive two day course which explains the Design, Sizing, Construction, Inspection, and Maintenance of Pressure Relief Devices.

Questions:
Please call Terry L. Kloth @ 661-398-5952 (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 35 students. The price of this course for SPE members is $1,150 and for non – SPE members the cost is $1,250 per person. A morning and afternoon snack and cold and hot drinks are included. Please note lunch is not included in this price. Course books /notebooks will be provided.

Member PayPal Link: https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=EANJJY7FFZCSU
Non-Member PayPal Link: https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=XBXGD66U87PQ2

RSVP: Please RSVP to pamelaw@wziinc.com

Target Audience:
Facility Engineers, Facility Engineering Supervisors, Construction Engineers and Supervision, Engineering Piping Engineers, Designers, Project Engineers, Project Managers, Operation / Reliability Engineers, Safety Representatives Operating Foremen should attend who need or would like a greater understanding of Pressure Relief Devices.

Description:
Possibly the most important single safety device on a boiler, oilfield steam generator, or pressure vessel the pressure relief device is all that stands between overpressure conditions and catastrophic explosions. This comprehensive review of the design, construction, installation, operation, inspection and maintenance of pressure relieving devices currently in use on boilers, oilfield steam generators, and pressure vessels details how to protect pressurized equipment from exceeding the maximum allowable working pressure.
The focus of the seminar is to enhance the attendees’ understanding and application of the Design, Sizing, Construction Inspection, the maintenance of Pressure Relief Devices.

(continued on next page)
SJV SPE Continuing Education

“ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance”

(continued from previous page)

Outline:

The code requirements for pressure relief devices are covered by the following ASME Boiler and Pressure Vessel Codes:

- ASME Section I- Power Boilers
- ASME Section III- Nuclear Systems
- ASME Section IV- Heating Boilers
- ASME Section VIII- , Div. 1 – Pressure Vessels
- ASME Section XII- Transport Tanks
- ASME B31.1 – Power piping
- ASME B31.3 – Process Piping
- ASME B31.8 Gas Transmission & Distribution Piping Systems
- ASME B31.4 Pipeline Transportation Systems for Hydro Carbon & other liquids

You Will Learn:

- Code requirements for pressure relief devices covered by the ASME Boiler and pressure Vessel Code.
- API RP -520 Part I , Sizing and Selection of Pressure Relieving Devices, and API RP 520 Part-2,
- Installation of Pressure Relief Devices
- Construction and installation
- Testing and testing facilities
- Records and maintenance and VR (valve repair) certification program.

Instructor:
San Joaquin Valley SPE & SPE Young Professionals

TOYS for TOTS Networking Bash

Bring a new unwrapped toy or donation for entrance to the event and receive a raffle ticket to win an Apple TV! Bring more than one toy and you will get one raffle ticket for each toy for a chance to win the Apple TV or other great prizes!

Date: Thursday, December 13th, 2012
Time: 5:30 – 7:30 pm
Location: Lengthwise Brewery - 2900 Calloway Dr.
Appetizers and Prizes Sponsored by WZI

Non-member guests are always welcome to attend.

For those who would still like to donate but can not attend or have questions, please contact Keith Kostelnik at keith_kostelnik@oxy.com or 918-557-2290 for a drop box near you.

RSVP to Tara Butler @ tbutler@enovaes.com or 661-319-4022 prior to 2:00 pm on December 12th
The SPE SJV Section would like to thank B&L Casing Services LLC for sponsoring our October Monthly Networking Bash!

SPE Networking bashes are held monthly as a service to our members and are great opportunities 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.

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

For additional information please contact Tara Butler @ tbutler@enovaes.com or 661-319-4022.

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2012 SPE Golf Tournament
Sponsorship Appreciation

To All of our Generous Sponsors in 2012,

On behalf of the Society of Petroleum Engineers, the golf committee wishes to thank you again for your valued sponsorship of our tournament held on March 23rd, 2012. This year we were able to raise close to $16,000 for our scholarship program. This was a significant contribution to the $50,000 total we will be giving out to local college students in June from our community, who will be our future in the oil industry. Without your participation, this would not be possible.

Thank You for Your Sponsorship,

The 2012 SPE Golf Committee

The SPE Golf Committee thanks all of our PLATINUM Sponsors

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<td>Vintage Production Calif.</td>
<td>(661) 412-5580</td>
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