SJV SPE News
San Joaquin Valley Section Society of Petroleum Engineers

Issue 340
June, 2016

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Craig Pauley
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http://connect.spe.org/SJV/

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Newsletter Editor:
Craig Pauley
CraigPauley@Chevron.com
I hope everyone had a safe Memorial Day weekend. Those of you who had the opportunity to attend the WRM in Alaska, I would like to thank you for representing the San Joaquin Valley section. I would also like to thank you for all of you support. Our San Joaquin Valley section has shown time and time again that even during the industry down turns, we still remain a successful and engaged section.

You can still purchase a raffle ticket to help raise money for the SJV Section scholarships. The raffle prize is a $750.00 gift card to for Sea Ventures. Raffle tickets are available for purchase at the Networking Bash, General Section Meeting, Surface and Subsurface Meetings, or using the link on Page 4.

This is my last letter, again thank you it has been an honor representing you during this session.

Remember to work safely,

Pam Willis
Please join the SJV-SPE Scholarship Committee in congratulating our 2016 Scholarship Recipients:

Cody Allen
Ashley Bates
Jacob Elliot
Armando Flores
Ravinderdeep Gill
Andrew Renteria
Alap Sahoo

Geoffrey Bartz
Hannah Carlie
Allen Eschete
Derek Frost
Victoria Nguyen
Jeremy Roberts
Jacqueline Staiger

Awards will be presented at the June General Section Meeting, featuring Author and Energy Industry Analyst Allen Brooks; see page 5. A special thank you to all of the SPE volunteers, members, and local industry for supporting the SPE Scholarship program, which assists students interested in pursuing careers in the oil and gas industry. You can join our sponsor list, by purchasing a raffle ticket; see Page 4.
RAFFLE TO SUPPORT SPE SCHOLARSHIPS

Enter for a chance to win a $750 gift certificate to Sea Venture Beach Hotel & Restaurant in Pismo.

1 ticket for $20 or 6 tickets for $100

Tickets can be purchased at SPE SJV events or by directly contacting:

Dave Susko at david.susko@bakerhughes.com or 661-336-3408

or

Scott Myers at SMyers@flotekind.com

All proceeds go to this year’s SPE Scholarship recipients!!!
**ABSTRACT:**

We are two years past the last peak in oil prices. The shock of OPEC’s 2014 decision to turn over control of oil pricing to market forces has upset conventional thinking of how to deal with an oversupplied market. The oil oversupply was primarily driven by the North American shale revolution as U.S. output grew by four million barrels a day. Geopolitical turmoil has taken large volumes of conventional oil supply off the market, but demand has remained weak. The political scene in the Middle East has become even more unsettled with the change in Saudi Arabian leadership and the rise to leadership of the next generation of the royal family represented by the 30-something year old son of the King with a vision to move the country away from its total dependence on oil. The 85% increase in oil prices since their low in mid-February has created some optimism that the worst of this downturn is behind us. However, the oil price rally has only returned prices to where they were in the fall of 2015. My talk will explore this history, the forces that created the downturn and how those forces are reshaping the industry and its future. With the growing prominence of the environmental movement, there are legitimate questions about what is the long-term future for fossil fuels, or even if there will be a future. We will consider what the industry’s recovery will look like and what its long-term future may be. Realizing that all forecasts will ultimately prove wrong, understanding the dynamics shaping the industry will help frame a range of likely outcomes in the future.
General Section Meeting
June 16th
Scholarship Recipients Lunch and Energy Expert Allen Brooks

SPEAKER:

Allen Brooks has spent 40-plus years in the energy and investment industries as an energy securities analyst, an oilfield service company manager, a consultant to energy company managements and a member of the board of directors of oilfield service companies. Since 2005, Mr. Brooks has been an advisor to PPHB LP, a boutique oilfield service investment banking firm with offices in Houston and Calgary. There he publishes his highly regarded energy newsletter, Musings From the Oil Patch, and provides proprietary research for the firm’s partners.

During his career, Mr. Brooks was recognized as a Wall Street Journal All-Star analyst. He headed the oilfield service equity research team at CIBC World Markets for eight years and prior to that was the senior oilfield service analyst for New Orleans-based energy research firm, Howard Weil, for four years. In the early 1990s, Mr. Brooks was a member of the senior management team of ENSCO International, the offshore contract drilling company. He also served as the court appointed expert in the bankruptcy of Global Marine Drilling Company in the mid 1980s, at a time when he also was a consultant to many oil service companies and financial institutions including the Maritime Administration. He currently consults with the CEO of a leading offshore service company.

Mr. Brooks is a member of the board of directors of two Canadian-based oilfield service companies. He writes an energy column for Maritime Executive magazine, is a regular contributor to Workboat.com and OilPro.com. He started his investment career in 1969; is an Economics graduate of the University of Connecticut; and has an M.S. degree in Economics from Cornell University. He received his Chartered Financial Analyst designation in 1975.
SPEAKER: DEEPAKER “DEE’ BISWAS

Deepakar “Dee” Biswas is the President of SiteLark - a Flotek Company, an international petroleum engineering consulting and software firm. Flotek is a family of companies with particular focus in applying its patented Complex Nano-Fluid formulations to enhance recovery from remediation, flooding, acidizing, drilling and variety of other oil-field applications. Dr. Biswas’ more than twenty years of expertise includes developing business and managing interdisciplinary projects in conducting reservoir engineering and simulation studies in geographically diverse regions. He had previous tenures with such companies as Mobil E&P, ONGC, TXU Energy Trading, Blade Energy Partners and DeGolyer and MacNaughton. After developing reservoir engineering and simulation consulting/training business as the President of SiteLark for 10 years, recently SiteLark has been acquired by Flotek Industries to provide expanded EOR capabilities from lab to the field.

Dr. Biswas has several archival publications including journal papers, conference presentations, and guest lectures. Additionally, he has two book chapters. He has a Ph.D. in Petroleum Engineering from the University of Texas at Austin. He is the recipient of the 2015 Mid-Continent Regional Reservoir Description and Dynamics Award and served as the Vice Chairman Education of SPE Dallas Chapter (2006-07).

Laboratory to Field Scale Simulation of a Complex Micro-Emulsion System Performance for Enhanced Oil Recovery

This presentation investigates the application of a proprietary surfactant-solvent package as an alternate chemical solution in Enhanced Oil Recovery (EOR). This micro-emulsion system (MES) has many upsides to traditional solvent or surfactant-alone alternatives, as the package can be transported in-depth with less sacrificial adsorption yet maintain its interfacial tension reduction and oil swelling abilities to mobilize residual oil. In the first example, application in conventional mature waterflood reservoirs with pre-existing thief zones proves to be a suitable candidate for flooding treatment. Modeling results will be presented where the laboratory data is used to calibrate the model and then applied to monitor, track and predict field trials. In the second example, application of this technology to revive production in long, multi-fractured horizontal wells is elaborated. Fit for purpose modeling approach will be elaborated where a pore throat model is used to understand the benefits of shut-in to induce imbibition accelerated by the treatment. Some case studies will be presented to support laboratory observations.

Date: Tuesday, June 7th, at 11:30 a.m.
Location: Petroleum Club, 12th floor, 5060 California Avenue, Bakersfield
Please RSVP by 12 PM Monday, June 6th, 2016.

Using one of these options:
Paypal account where you can use your Visa. Mastercard. American Express. Discover, or Paypal Account

Members $25
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Non-Members $30
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Students: Free with RSVP, no-shows may be billed
Day of event: Members $30, Non-Members: $35

Walk-ins and attendees with email/phone RSVP must pay by cash or credit card at the door.
Please email or call Allison Escovedo aescovedo@ebresources.com 661-699-3690 for email/phone RSVP.
Note the registration deadline is June 6th (Monday).
This class is good to go now, but space is still available.

An Overview of Enhanced Heavy Oil Recovery

By Dr. Behrooz Fattahi

Date: June 14, 2016, (8:00 am to 4:00 pm)

Location: California State University at Bakersfield, Bakersfield, California.

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 $700 per person for professionals and $100 per person for students.

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=DQP7QU67GCD9C

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Questions:

Please call Reza Ardali @ 661-412-5221 (office); 979-422-1251 (mobile) or e-mail mojtaba.ardali@crc.com if you have questions or need additional information.

Description: This 1-Day 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 managers participating or planning to engage in heavy oil production activities will benefit from this course.

I. Introduction to Heavy Oil Recovery
   - objective, content, and scope
   - major energy sources
   - global supply and demand for energy
   - various types of oil (light, ultra-light, heavy, ultra-heavy, bitumen)
   - description of where heavy oil is found (reserves, known locations)

II. Some Basic Concepts
   - oil types
   - mechanics of hydrocarbon recovery
   - critical parameters in flood recovery

III. Thermal Enhanced Oil Recovery
   - stages of oil recovery
   - thermal recovery techniques for heavy oil extraction
   - history of thermal recovery
   - heavy oil recovery challenges

IV. Fundamentals of Steam Injection Process
   - steam injection recovery challenges
   - thermal effects
   - steam injection and steam displacement process
   - contrasts between steam drive and steamflood
   - cyclic steam injection
   - field experiences

V. Elements of Steamdrive/Flood Management
   - movements of steam front, injection flux rate, heat balance
   - examples of historical oil-steam ratio behavior, produced steam-oil ratio

VI. Well Completions and Production Technology
   - types of well completions
   - temperature observation wells

VII. Surface Facilities
   - typical steamflood surface facilities

VIII. Considerations in Steam Injection Projects Development and Operation
   - critical technical considerations

IX. Post Steam Injection Recovery
   - volumetric sweep, and remaining oil saturation
   - capital expenditure for conversion

X. Other Heavy Oil Recovery Methods
   - air injection
   - chemical injection, miscible displacement process, microbial injection, elastic
   - wave vibration, microwave heating, electrical stimulation, electrical heating,
   - nano-particle dispersion

XI. Field Examples
   - cyclic steam
   - polymer flooding
   - microbial enhance oil recovery
   - steamdrive/flood

XII. Screening, Selection, Design, Implementation, and Operation
   - application and mechanism
   - critical considerations in heavy oil recovery project design

XIII. Summary and Conclusions
Note the registration deadline is June 6th (Monday). This class is good to go now, but space is still available.

Short course

An Overview of Enhanced Heavy Oil Recovery

Instructor’s 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 2014-15 President of the American Institute of Mining, Metallurgical and Petroleum Engineers, AIME. He is now the Vice President of SPE Foundation.
“Introduction to API Storage Tank Standards”

**Instructor:** Mr. John Cornell  

**Date:** October 25-27, 2016  
8:00 am to 4:00 pm  

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

**Announcement:** SJVSPE is proudly sponsoring the – “Overview of API Steel 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.

**Questions:** Please call Reza Ardali @ 661-412-5221 (office);  
979-422-1251 (mobile) or e-mail mojtaba.ardali@crc.com if you have questions or need additional information.  

Laptops are not required, and are discouraged during class.

**Payment & Cost:**  
Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail) or register & pay with a credit card via PayPal (below). The price of this course for SPE members and non - members is $ 1,510 per person. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included, PayPal Link:  
https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=HUHPLBY4ANQHC

**Instructor 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

**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) – New Storage Tank Basics covering the choice of Materials, Design calculations, Fabrication and shop activities, Field Construction methodologies. Related topics include, Shell thickness calculations, floor plate layout and nomenclature, Optional tank designs for smaller tanks, Foundation design including a discussion regarding leak detection and containment, Nameplates, and etc.

Day two: Inspection and Repair of Existing Tank Evaluation (API-653) – Review of previous tank failures and their causes such as but not limited to Brittle fracture and Corrosion. A discussion of Inspection drivers and considerations, Inspection types and schedules, Critical zone welding limitations, Lap-patch placement and size limitations for both the bottom and shell, Safety concerns around tanks, and etc.

Day three: Production Site Tanks (API -12F -12B) New Tank Materials, Design, Fabrication and site installation. Also, (API-12R1), Inspection requirements of field production tanks. Topics include but are not limited to: Design thickness, Internal Inspections, External Inspection, Visual Inspections, Remaining Life Calculations and many more.
10-Year Oil Price Chart

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For more details please contact:
Braidon Waggoner
1 (661) 342 9836 | Braidon.Waggoner@ge.com
Peter Hege
1 (562) 371 5237 | Peter.Henge@ge.com
Open House

Thursday, June 30, 2016
11:00 – 3:00 pm
Food and drinks will be served, drop in anytime.

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<td>(661) 869-5790</td>
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<td><a href="mailto:dsaini@csub.edu">dsaini@csub.edu</a></td>
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</table>
A Note from Tom Hampton, SJV-SPE Membership Chair

To state the obvious, this is a tough time in the oil business. Please note, SPE has some good benefits to help us weather through this downturn. For those of you that know of others that have been laid off, please forward this information below to them. I think this will be helpful to them.

May I suggest you take a look at the following links:

Members in Transition Toolkit:  http://www.spe.org/members/transition/

2016 President Nathan Meehan, “Should I Stay or Should I Go?”

Please note, in spite of unemployment, you can renew your SPE membership. You can apply for a Dues Waiver. To qualify for a dues waiver, you must (http://www.spe.org/join/options.php):

- Provide a written request for unemployment or disability.
- Submit a dues waiver request annually.
- Email service@spe.org, or write to:
  SPE
  Attn: Membership Processing
  P.O. Box 833836
  Richardson, TX 75083-3836 USA.

By keeping your membership, you will still be on our distribution list for networking, newsletters, and have access to helpful information to help you thrive in a downturn. Keeping your membership will help you get information from the SJV SPE section on network opportunities that come up.

Member Benefits

- Conference and Workshop Discounts – for technical knowledge and interaction
- Technical Papers and Libraries – access to OnePetro, largest online technical library
- Career Advancement – Leadership and volunteer opportunities, Career Center for tools
- Purchases – discounts on insurance, car rental, Lands’ End Business Outfitters
- Use Membership Icon in emails

Membership includes one SPE Local Section: San Joaquin Valley (SJV) Section of SPE, sjv.spe.org

Other Resources to Join SPE

Join online: www.spe.org/join

YouTube Video: https://www.youtube.com/How to Join SPE (Professional Membership)

Professional Membership Qualifications:
Employed in work related to petroleum industry AND have one of the following:
1. University degree equivalent to 4-year Bachelor’s degree in engineering or basic or applied sciences
2. 2-year science or engineering degree or a 4-year degree in a field other than science or engineering
3. 6 years of active practice in support of petroleum engineering or in the application of science to the petroleum industry

Dues for United States are $90/year membership + $20 Entrance Fee
Former Member? Look at: http://www.spe.org/join/reinstate.php

Student? Look at: https://www.youtube.com/Student Membership
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Craig Pauley, SPE Board Member
Chevron
Craigpauley@chevron.com

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