



## A Message from the Chair

Dear Los Angeles Basin SPE Members,

As we enter the end of the year, it is worth mentioning again that the petroleum industry is continuing to operate in high gear. As oil prices remain relatively high, the companies in the LA basin that operate the older, more mature fields are drilling more new wells, doing more recompletions and stimulations, and finding ways to bring back on damaged idle wells. Those companies should know that the LA Basin SPE is here to help. Throughout the year, we present technology-based talks at our monthly forum at the Long Beach petroleum club. While at the forum, members have a chance to meet other members – some with many years of experience in the industry. This is an opportunity to network and gain insight into the state of the industry, and to perhaps find a solution to your operational and exploitation problems. Many independent consultants attend the monthly forum meetings.

It has been suggested that the LA Basin SPE should occasionally sponsor a one-day “trouble-shooting” forum, specially focused on helping LA companies solve their problems. Local operating companies could interact with each other and with local consultants to find unique solutions. If this is of interest to the LA Basin members, please contact me directly with your comments and suggestions at [LOVESM@IX.NETCOM.COM](mailto:LOVESM@IX.NETCOM.COM).

Finally, to all the new young professionals that have started an oil industry career in the LA Basin, you are welcome to attend the monthly forum meetings (and the board meeting that starts at 10AM before the forum) and try to get involved in the many LA SPE activities. Perhaps you could visit a high school science fair or participate in some of our other “outreach” programs. I look forward to seeing everyone at our November forum.

Scott McGurk  
Chairperson, SPE Los Angeles Basin Section

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## LA SPE Petroleum Technology Forum - November 14, 2006

### “Water Injector Completion Design and Performance in Sand Prone Formations”

The LASPE Monthly Petroleum Technology Forum next meets Tuesday November 14, 2006 at the Long Beach Petroleum Club. Mr. Darrell J. Wood, SPE Distinguished Lecturer of BP Exploration will present “Water Injector Completion Design and Performance in Sand Prone Formations.” A complete abstract and bio is provided below.

<u>Location:</u> Long Beach Petroleum Club 3636 Linden Avenue Long Beach, CA 90807	<u>Time:</u> Registration: 11:30 AM Buffet Lunch: 12:00 noon Presentation: 12:15-1:00 PM	<u>Cost:</u> \$20.00, students are our guests.
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#### Abstract:

Effective waterflood and pressure maintenance are critical to the economic viability of the many developments. Some 60% of BP’s current oil production is supported by waterflood. This is expected to rise to 80% over the next few years. Many of the future developments will be in sand prone formations where injector sand control will be required. Further, an increasing number of these developments will be located offshore in deepwater. In this challenging environment, the completion design philosophy will focus on minimal well intervention. The sandface completion design for water injectors is now recognized as a major technical issue with the key areas for concern being:

- Life of well sand control integrity, particularly where the sands may be subject to water hammer, zone-zone crossflow or well-well backflow
- Long term injection performance, particularly with solids laden produced water and with injection pressures above or below fracture pressure
- Reliable and cost effective zonal isolation, to provide zonal selectivity and improved injection conformance

So how do the various completion design options meet these concerns and what performance can be expected in the field?



Darrell Wood, Senior  
Completions Engineer  
BP Exploration

#### Biography:

Darrell Wood is a senior completions engineer for BP Exploration in Aberdeen, U.K. He has worked in a variety of engineering and operational assignments in the UK and Alaska during his 22 years with BP. He is currently working within the company’s Exploration and Production Technology Group, where he has most recently been responsible for developing BP’s completion design guidelines for water injection into unconsolidated formations. He is also working with a number of upcoming development project teams on integrating downhole flow control technology into water injectors in sand prone formations. He holds a BSc degree in mechanical engineering and has co-authored a number of SPE technical papers.

## Petroleum Technology Forum Future Dates & Topics

### Upcoming Forum Dates and Topics

All Monthly Petroleum Technology Forum dates have now been filled. An interesting and eclectic group of technology and general interest topics have been scheduled. Here is the remainder of the 2006 – 2007 lineup:

November 14, 2006: Darrell J. Wood, Distinguished Lecturer: “Water Injector Completion Design and Performance in Sand Prone Formations.”

December 12, 2006: Richard Miller: “Property Acquisitions in California – Trends and What We Really Know.”

January 9, 2007: Robert Visser: “What Price Oil.”

February 13, 2007: David E. Lumley: “4D Seismic Monitoring of Reservoir Fluid Flow.”

March 13, 2007: Dr. Iraj Ershaghi, Distinguished Lecturer: “Managing Smart Oilfield Assets and The Training Needs for Collaborative Decision Making.”

April 10, 2007: Tony Harrison, Distinguished Lecturer: “Reserves Management & Auditability – Critical Requirements in Today’s Oil & Gas Industry.”

May 8, 2007: Barry Evans and Tom Walker: “The CIPA/WSPA California Market Survey – Pricing Trends and Expectations.”

June 10, 2007: Jerry Anderson, Executive Director, Conservation Committee of California Oil and Gas Producers: “The Future Direction of the California Petroleum Industry.”

All meetings are held at the Long Beach Petroleum Club, 3636 Linden Avenue, Long Beach California, 90807. Reservations are not necessary, but appreciated. Registration starts at 11:30 AM followed by buffet lunch at noon. Presentations are scheduled from 12:15 to 1:00 PM with questions to follow. The cost is \$20 for members and non-members alike by cash or check. Students are welcome and are our guests.

LASPE’s monthly Board Meeting precedes the Monthly Petroleum Technology Forum. All members are welcome to attend.

## Board and Forum Report for October 2006

### October 10, 2006 Board and Forum Report

The Board of Director's regular monthly meeting convened at 10:25 AM at the Petroleum Club on October 10, 2006. Highlights follow:

- The Board has an open position for a one-year term. Anyone who is interested in this position, or if you have anyone you wish to nominate, may contact the LASPE Chair, Scott McGurk at [lovesm@ix.netcom.com](mailto:lovesm@ix.netcom.com)
- Planning is already in progress for the 2007 ACTE that will be held in Anaheim next October. The LASPE will assist by providing a cadre of volunteers and organizing some of the outside activities.
- The Board approved a \$1,000 grant to Mr. Mike Phillipow who teaches geology at Long Beach Poly High School. This will go towards field trips for his students.

The Board Meeting was followed by the Monthly Petroleum Technology Forum. Dr. Mridul Kumar, SPE Distinguished Lecturer with Chevron Energy Technology Company presented his discussion of "Heavy Oil Recovery – Recent Developments and Challenges." Dr. Kumar's remarks on this topic were well received by the 50 members and guests in attendance. His talk began by noting that 70% of un-recovered petroleum resources are heavy oil, but these account for only 9% of production. He followed this up by emphasizing that combining accurate viscosity and relative permeability data with an accurate geologic description is essential for depletion planning. A discussion of the various recovery techniques followed. A key economic point of Dr. Kumar's remarks was that heavy oil resources all have a long life and must withstand one or two economic cycles.

Dr. Kumar's slides will be available later this year and will be posted on LASPE's website.



## Current Officers, Board and Committee Chairs for 2006-2007

### LA SPE Directors

Scott McGurk, Chairman  
Brandy Fellers, Vice-Chair  
Pat Shuler, Jr. Past Chair  
Raj Upadhyay, Sr. Past Chair  
Allan Spivak, Director  
Rudy Weibel, Director  
Tony Taglieri, Director  
Jack Smith, Director

### Committee Chairs and Co Chairs (assistants) for LASPE 2006-2007 Term First person – Chair, Second Person – Co chair, Others –Members at Large

Secretary	Pat Shuler, Sam Sarem
Treasurer	Vivian Bust, Rick Finken, Rudy Weibel
Scholarship	Tony Alan
Membership	Jalal Torabzadeh, Baldev Gill, Sam Sarem
Science Fair	Jack Smith, Sam Sarem
Student Affairs	Jalal Torabzadeh, Iraj Ershaghi
WRM Liaison	Scott Hara
Interdisciplinary Liaison	Raj Upadhyay, Ed Mayer
National SPE Liaison	Ed Mayer, Mike Bruno
Computer	Fred Crosby
Younger Member Liaison	Tony Taglieri, Brandy Fellers
Nomination	Sam Sarem, Ed Mayer
Orange County Engineering Council (OCEC)	Sam Sarem
Los Angeles Council of Engineers and Scientists (LACES)	Jalal Torabzadeh, Scott McGurk
Future Scientists and Engineers of America (FSEA)	Sam Sarem, Mike Bruno, Raj Upadhyay
Golf Tournament Fund Raiser	Mark Shemaria, Rick Finken
Web Site	Larry Gilpin, Vivian Bust, Fred Crosby
Forum Program	Rick Finken, Brandy Fellers, Tony Taglieri,
Outreach	Ed Santiago, John Jepson, Vivian Bust
Career Guidance	Jalal Torabzadeh, Sam Sarem, Iraj Ershaghi
Mathematics, Engineering and Science Achievement for Educationally Disadvantaged Students (MESA)	Scott Hara
Charities	Mark Shemaria
Continuing Education	Rudy Weibel, Scott McGurk
Parliamentarian	Sam Sarem, Rick Finken
COMET	Iraj Ershaghi, Rick Finken, Sam Sarem
Emerging Leaders Program Chair	Jalal Torabzadeh
Publication Mentor	Ed Mayer
Technology Transfer officer	Jalal Torabzadeh
Internet Chairperson	Larry Gilpin
Section/Student Chapter Liaison	Jalal Torabzadeh

## LASPE Supports LB Poly HS's Geology Program

Mike Phillipow teaches Geology at Long Beach Polytechnic High School. In 2004, Mike was honored as AAPG's Teacher of the Year." He used his grant money for equipment and field trips for his students. In 2005 and again this year, LASPE has covered expenses for three field trips to interesting local geologic and oil producing areas.



Here are some photos. On the top of Signal Hill, John Jepson guides a tour of facilities and is shown explaining pumping operations. Other field trips include THUMS Islands, outcrops and faulting in Palos Verdes and the LA County Museum of Natural History.



In class, Mike has developed some excellent demonstrations of the formation of faults and folds. These two students create their own first hand look at how nature works.

With LASPE's continued support, Mike's students learn the importance and fun of earth science.



## LA SPE Charity Golf Tournament

### Golf Tournament Expected To Fill Fast!

This year's Charity Golf Classic is expected to fill fast says Tournament Chair Mark Shemaria. "We had over twice as many foursomes that we had to turn away from last year's sold out event as we did the year before." There is time at this point, but I recommend that you **plan now** and don't wait to the last minute, we fully expect to be sold out early again this year.

The tournament is **Friday May 18<sup>th</sup>** and the 72 foursomes will compete at Los Serranos Country Club in Chino Hills a really great golf venue. If you only attend one tournament a year this is the one to be at! This event provides with an opportunity to help let our industry shine and give back to others during these so prosperous times!

The Tournament is scramble format with a shotgun start at 1:00 in the afternoon. There is a BBQ starting at 11:00 AM sponsored by Weatherford Completion & Production Systems and pre-tournament events. This year also continues the *Company Cup Challenge* with the best teams from companies going head-to-head to win the prized cup and the honors of displaying it at there office for the next year!

For more information on golf, sponsorship, raffle and/or auction prize donations or helping out with the tournament please contact Tournament Chair Mark shemaria at (562) 495-9392 or [mark.shemaria@tidelandsoil.com](mailto:mark.shemaria@tidelandsoil.com) or watch for upcoming news on the LA Basin SPE's web site at [www.laspe.org](http://www.laspe.org).

## LA SPE Sends Students to ATCE



Three Long Beach students that the LA SPE provided funds to attend the San Antonio ATCE in September. The student are in the middle, L to R - Nima Gilak, Fuad Sarhang Nejad and Edson Campoblanco with LA SPE's Jalal Torabzadeh and Scott McGurk on the left and right.

## **SAVE THE DATE!**

This year's  
**Annual Classic LA SPE Charity Golf Tournament**  
is on May 18

To participate or help by volunteering

Contact Mark Shemaria  
Tidelands Oil Production Company  
(562) 495-9392 direct (562) 495-1950 fax  
(562) 244-3532 cell

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<http://www.spe.org/mbrservices/index.cfm>

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send an email to [larry@4thforge.com](mailto:larry@4thforge.com)**

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