



Los Angeles Basin Section
www.laspe.org

Los Angeles Basin Section Society of Petroleum Engineers

A Message from the Chair



Hello Fellow
SPE Members,

Please review
our newsletter
and LASPE.org
website closely
as we have

finalized information on the 2010 SPE Western Regional Meeting (WRM) in collaboration with the Pacific Section AAPG and Cordilleran Section GSA Annual Meetings from May 27-29 at the Anaheim Marriott. We have provided weblinks for the technical program, **LASPE/ PTTC Regional Workshops/Courses and field trips (page 8)**, and how to register for the events and make hotel reservations. We truly have an excellent technical program and set of training workshops. Workshops are scheduled on May 25 and 26, 2010 and we encourage everyone to please notify your colleagues to sign up for the classes as proceeds help our local section to pay for costs associated with the event. Please note that

the early registration deadline for the WRM and the negotiated room rate at the Anaheim Marriott of \$99 per night is good until the allotted rooms are sold out or April 26. Thanks again for all WRM committee members who are working diligently on preparing all their assignments for the event.

WRM Announcements:

Volunteers Needed. For the WRM, SPE will have a special booth in the exhibit halls that will allow attendees to renew their membership or become new members of SPE. Booths will also contain information about our regional meetings and activities for the year. If you would like to volunteer your time to help at the booth, please contact Brandy Fellers at (562)-624-3233 or Bob Visser (310) 378-7925.

2010 SPE President: Dr. Behrooz Fattahi, 2010 SPE President, will be attending and speaking at the WRM.

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PETROLEUM TECHNOLOGY FORUM PROGRAM, APRIL 13, 2010

The next Petroleum Technology Forum will be held on Tuesday, April 13, 2010 at the Long Beach Petroleum Club, 3636 Linden Avenue, Long Beach, CA 90807. The speaker will be Jerry Anderson of the CCCOGP. Abstract and speaker bio follow. *Abstract & bio follow on Page 3...*

<p><u>Location:</u> Long Beach Petroleum Club 3636 Linden Avenue Long Beach, CA 90807</p>	<p><u>Time:</u> Registration: 11:30 AM Buffet Lunch: 11:30 AM Presentation: 12:00-1:00 PM</p>	<p><u>Cost:</u> \$20.00 members, Free for students.</p>
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Message from the Chair...continued from page 1

He is on the management panel session and a special speaker at the Regional Awards Luncheon on Friday, May 28, 2010. If you are planning to attend a workshop at the Anaheim Convention Center, you will have an opportunity to hear a short talk during the workshops lunch break from 12:20-12:45 pm. If you are not attending a workshop and would like to join the luncheon on Wednesday, May 26, 2010, please contact me, Vanessa Perez by email. Price to attend is \$25, if not already signed up for workshop.

Student Outreach: SPE's elementary outreach committee prepares an Easter Egg Hunt for about 120 kindergarten students at International Elementary School in Long Beach. This year, we were happy to join with the Young Professionals (YP) as they hosted our 2010 Easter Egg Hunt. We appreciate all their help and a special thanks to Leila Rashedi, Katy Canan, Aditya Varma, and Candra Janova for doing all the leg work and assisting the elementary outreach committee. On March 25, 2010, the YP and staff of California State Lands Commission filled over 1200 plastic Easter eggs with wrapped chocolate candy. The Easter Egg Hunt will take place at Drake Park in Downtown Long Beach on April 1, 2010. Volunteers will arrive at the park at 8:30 a.m. to clean up the park and hide all the Easter eggs. If you would like to volunteer please notify me at perezv@slc.c.agov.

Science Fair Dates: Time of year for our Orange and Los Angeles County Science Fairs. Below are the dates of Fairs. April 7, 2010- Orange County Science Fair

April 15, 2010-Los Angeles Science Fair

If you have any feedback to improve the LA SPE Section or would like to volunteer in our Student Outreach Program, Science Fair and Scholarship Committees, Young Professionals, and/or Golf Tournament Committee, please contact me at perezv@slc.ca.gov . Thanks again for attending our SPE forum meetings.

See you all on April 13, 2010 Forum Meeting.

Vanessa Perez - SPE Chairperson

>>>>> ANNUAL GOLF TOURNAMENT AND FUNDRAISER <<<<<<



The Annual LA Basin SPE Charity Golf Tournament is set for May 7th, 2010. Once again we will be returning to Los Serranos

Country Club in Chino Hills, for this great event. There is the pre-tournament BBQ, provide to us once again by Weatherford, golf is scheduled for a 1:00 shotgun start and for golfers and non-golfers

like the always exciting Awards Banquet and Raffle will follow. T

This event is more than just golf; it is our major fund raiser of the year and provides the section

Calendar

April 13th

LASPE Board Meeting
Petroleum Technology Forum at The Long Beach Petroleum Club

May 7th

Annual LA Basin SPE Charity Golf Tournament
Los Serranos Country Club Golf Course
Chino Hills, CA

May 24-June 2 WRM Anaheim, CA

LASPE and the AAPG, Pacific Section will host the Western Regional Meeting at the Anaheim Convention Center. SPE Activities May 25th - 28th only

June 8th

Crude Price Challenge Winner Announced

Golf Tickets available on www.LASPE.org

with a large portion of the LA Basin's operating funds. Make your plans to attend early - teams have already started signing up. We expect this event to sell out, so don't get left out.

Contact Mark Shemaria at markshemaria@yahoo.com or Mike Filbey, mike_filbey@oxy.com for more information or sponsorship opportunities.

FORUM FROM PAGE 1 . . .

**A History of California Oil Production,
the DOGGR and the Conservation
Committee**

by Jerry Anderson of the CCCOGP

Abstract:

In 1929 the state production had increased to 801,000 B/D from 277,000 B/D when the decade began. An additional 200,000 B/D was shut in and 800 million cubic feet of gas was vented daily. Jerry will provide a historic perspective of California's oil and gas industry, the events which occurred requiring the formation of the DOGGR and CCCOGP, and their partnership in establishing conservation practices for California.

Bio – Jerry Anderson:

Mr. Anderson is currently Executive Director of the Conservation Committee of California Oil and Gas Producers, which works directly with the California DOGGR in making recommendation of Maximum Efficient Rates of oil and gas production to the State Oil and Gas Supervisor. Prior to this he worked for Texaco as an Operating Unit Manager. He also has industry work experience as a Facility Engineer, Production Engineer, Reservoir Engineer, and Engineering Supervisor. Jerry holds a M. S. in Mechanical Engineering from Arizona State Univ and a M.S. degree in Petroleum Engineering from the Univ of Southern California. He is the West Coast Director for the Petroleum Technology Transfer Council (PTTC) and is a member of SPE.

We look forward to seeing you at the forum!

Katherine Wallgren
Forum Chairperson
Katherine_Wallgren@oxy.com

**LASPE Awards Funds to LBUSD for
Science Fairs**



On March 2, 2010, Jack Smith, Ed Santiago and Vanessa Perez, LASPE, Science Fair Committee, awarded Eric D. Brundin, Science Curriculum Leader, with a \$1000 check to support Long Beach Unified School District (LBUSD) Science Fairs.

**The Annual LA Basin SPE Charity Golf
Tournament is set for May 7th, 2010**



Tickets available on www.LASPE.org

**PETROLEUM TECHNOLOGY FORUM
PHOTOS FROM MARCH 9TH PRESENTATION**

**INJECTION PROJECT APPLICATION DATA REQUIREMENTS
WHAT IS BEHIND INJECTION PROJECT REVIEW
AND WHY DOES IT TAKE SO LONG?**

by Marilu Habel and Burt Ellison of the CA DOGGR

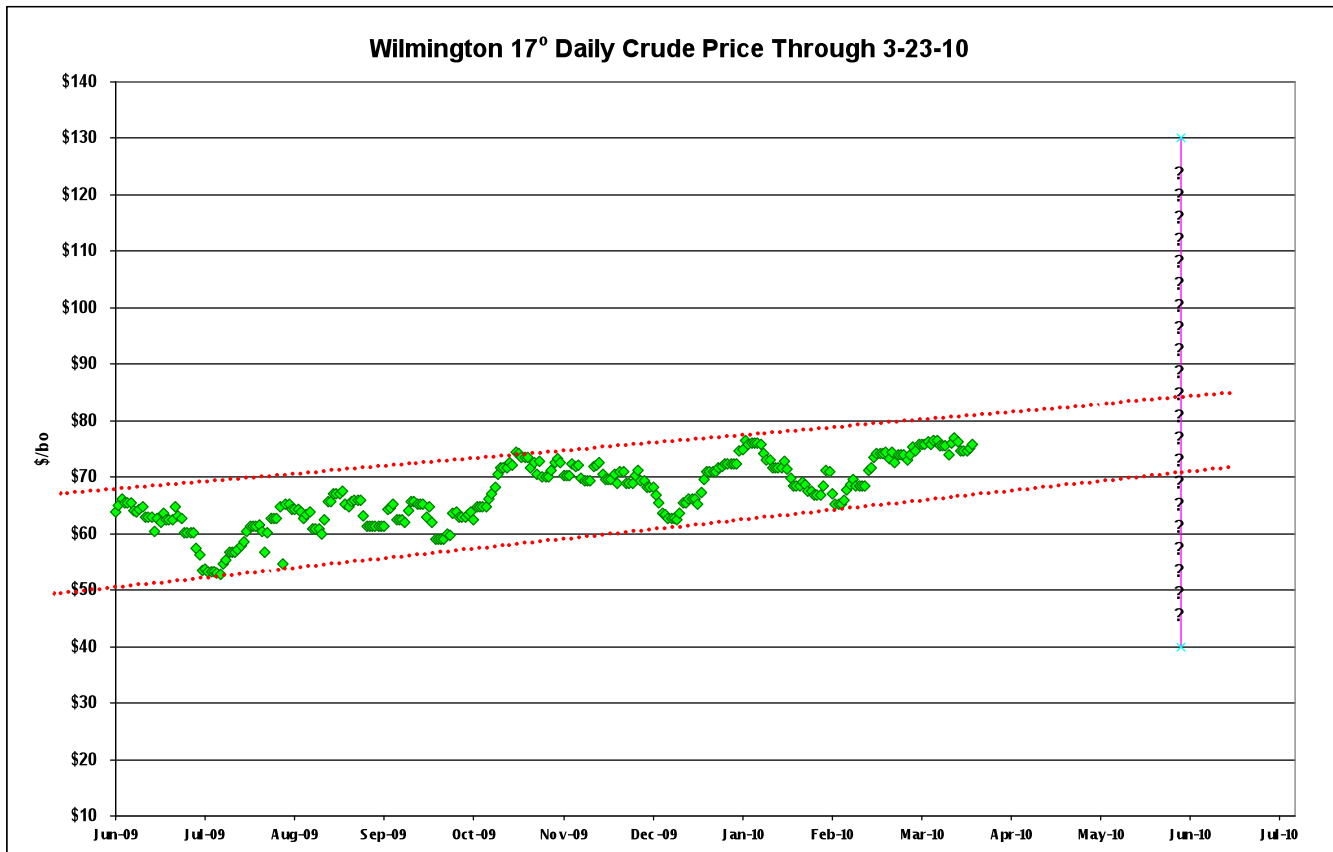


LASPE 2010 CRUDE PRICE CHALLENGE - MARCH/APRIL UPDATE

The price of Wilmington 170 Crude continues its upward, but ever narrowing trend. Will it continue its steady rise, tank or break out in a new higher trend? Join the "LASPE Forecast Club" and predict the price on June 1, 2010. You will win bragging rights, Gift Certificates and a useful and handsome trophy! Winners will be announced at the June 8th LASPE Forum.

- Contest Rules -

- Price basis is Union 76 Posting for Midway-Sunset 130 crude with a 45 cent price differential available at <http://wh.conocophillips.com/buy/postings/union76.asp>
- Enter by filling out the entry form available at the March, April and May Monthly Petroleum Technology Forums or by emailing your forecast \$/bo to Rick Finken at richard.finken@longbeach.gov
- One entry per person.
- Entry deadline is 11:59PM Tuesday, May 11, 2010.
- Winners will be announced at the June 8, 2010 Monthly Petroleum Technology Forum. Winners need not be present, but:
 - The \$25 1st Prize for the closest value doubles if present on June 8th and triples with your receipt from the March 9th kick-off meeting. There will also be a 1st prize trophy.
 - \$25 2nd Prize for next closest value
 - There will be only one 1st and 2nd prize – earliest date or email timestamp wins in case of duplicate winners.



LASPE OFFERS FALL 2010 SCHOLARSHIPS! APPLY NOW

The Los Angeles Basin of the Society of Petroleum Engineers is now accepting applications for Scholarships for the 2010/2011 school year.

Local students who are classified as undergraduates and graduate students at the beginning of the 2010 fall semester attending may be eligible for these scholarships. There are four types of scholarships available through the section:

- Mei Chang Memorial Scholarship: \$500 awards are available for high school graduates entering college in the fall of their graduating year or following year. This scholarship is a tribute to Ms. Mei Chang, a Sr. Research Scientist with Chevron. She is remembered for her steady contributions to LASPE and for tutoring science and math high school students. The awards are available to children, grandchildren and siblings of LASPE members or local students sponsored by LASPE members in good standing (subject to board approval).
- Undergraduate Scholarships: \$500 scholarships are available for undergraduate college students pursuing petroleum engineering or geology, chemical, civil, mechanical, environmental or related engineering curriculums. The awards are available to active LASPE student members or SPE student members attending southern California colleges or universities.
- Graduate Scholarships: \$1,000 scholarships are available for college graduate students pursuing studies or conducting research in energy and petroleum related subjects. The awards are available to active LASPE student members or SPE student members attending southern California colleges or universities.
- Bruce Davis Memorial Scholarship: \$1,000 award is available for a USC student pursuing graduate studies in petroleum related fields, chemical engineering and chemistry. Dr. Davis, a 26-year employee of Chevron, considered himself an experimental chemist and wished to encourage students with science backgrounds to pursue a future career in the Petroleum Industry.

In addition to the above scholarships available through the section, the SPE Foundation annually awards the Gus Archie Memorial Scholarship, a four-year, \$6,000 annual grant to the outstanding college freshman pursuing an undergraduate degree in petroleum engineering. If you or your students would like more information on these scholarships, as well as the guidelines and qualifications, please go to:

<http://www.laspe.org/scholarship/scholarship.html>

The deadline for the submittal of the application is April 9, 2010. Depending on the number of applicants an interview may be required. The students will be notified of the results after the SPE Board meeting on May 10, 2010. If you have any questions about the scholarships contact:

Jack L. Smith
SPE Scholarship Chairman c/o California State Lands Commission
200 Oceangate, 12th Floor
Long Beach, CA 90802-4331
Tel: (562) 590-5270
Email: smithjl@slc.ca.gov

2010 SPE WESTERN REGIONAL MEETING

**Short Courses at Anaheim Convention Center, May 25-26
Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28**

Program at a Glance

Tuesday, 25 May, 08:30 to 17:00

Short Courses
Field Trip

Wednesday, 26 May 08:30 to 17:00

Short Courses
Field Trip

Wednesday, 26 May 08:30-17:00

Western Region North America Student Paper Contest (Host Schools
USC and CSLB)

Thursday and Friday 27-28, May 2010 08:30-17:00

Technical Sessions and Exhibits

Thursday 27 May 13:30-17:00

Special AAPG-SPE Joint Session

Thursday May 27 May 12:00-13:30

Poster Session

Friday 28 May 12:00-13:30 Awards Luncheon

Keynote Speaker: Mr. Stephen Chazen, President and Chief Financial
Officer of Occidental Petroleum Corporation

Lodging - A block of rooms has been reserved at a discounted rate of US
\$99 + tax per night at the Anaheim Marriott. Specify the Anaheim
Marriott located on Convention Way and reference the group code "GSA-
AAPG". Reserve by phone, +1-800-266-9432, or on-line through the GSA
website. **Reservation deadline: 26 April 2010**

On-site self parking at the hotel is US\$10/day for the meeting.

2010 SPE Western Regional Meeting May 27-28 at the Anaheim Marriott

Continuing Education Program May 25-26 at Anaheim Convention Center

The SPE Western North-American Region and West Coast Petroleum Technology Transfer Council are proud to present our Continuing Education Program on May 25 and May 26, at the Anaheim Convention Center, 800 West Katella Avenue, Anaheim, CA 92802 (www.anaheimconventioncenter.com). The workshops (details at <http://www.laspe.org/2010WRM/2010WRMworkshops.html>) are associated with our 2010 SPE Western Regional Meeting to be held jointly with the Pacific Section AAPG and Geological Society of America next door at the Anaheim Marriott Hotel, 700 Convention Way, from May 27-29. The SPE Technical Program can be found at www.spe.org/events/wrm/ and conference information and registration at <http://www.geosociety.org/sectdiv/cord/2010mtg/registration.htm>.

Registration and Payment.

Registration includes workshop, materials, refreshments, and lunch.

Advance registration required and seating is limited and based on when payment received. Easiest way to reserve a seat is by email. Please provide your full contact information in correspondence, including name, company, address, work and cell phones, and email address. PTTC will send you a payment form. Payment can be made by check to "PTTC", Visa or MasterCard only.

To register contact:

PTTC West Coast, 5100 California Ave Suite 200, Bakersfield, CA 93309-0726

Phone: PTTC West Coast at (661) 635-0559

Email your information to: pttcwestcoast@cccogp.org

PROPOSED WORKSHOPS and SCHEDULE - Workshop details at WWW.LASPE.ORG

May 25 morning: 8am - Noon

1. Petroleum Geology for the Non-Geologist - Janice Gillespie: Professor, CSU Bakersfield
- Cost \$100

2. Economic and Financial Aspects of Petroleum Property Evaluation - Richard Miller :
Richard J. Miller and Associates - Cost \$100

May 25 afternoon: 1pm - 5pm

3. Introduction to Open Hole Logging - Janice Gillespie: Professor, CSU Bakersfield - Cost \$100

4. Oil & Gas Permitting, CEQA and Environmental Issues - Sam Sarem: President, Improved Petroleum Recovery Consultants, Grace Brandt, California Division of Oil and Gas, and Joe Hower, Environ Corp. - Cost \$100

Workshops continued...

May 26 full day: 8am - 5pm

5. Thermal Recovery - Anthony R. Kovscek: Professor Stanford University

Full day - Cost \$200

May 26th morning: 8am - Noon

6. Introduction to Petroleum Engineering - Mason Medizade: Professor, Cal Poly SLO -

Cost \$100

7. Facility Engineering for Non-Facilities Engineers - Lisa Denke: Project Manager, DCCK Engineering - Cost \$100

May 26 afternoon: 1pm - 5pm

8. Streamline Simulation for Reservoir Surveillance and Flood Management - Marco Thiele: Streamsim Technologies - Cost \$100

9. Drilling Engineering 101 - Val Lerma: President, Orchard Petroleum - Cost \$100

PROPOSED FIELD TRIPS

May 25: 7:30am – 5pm, Not confirmed yet

1. Los Angeles Basin Urban Oil Field Tour - John Jepson, City of Long Beach, and Don Clarke, Consultant - Cost \$100

May 26: 7:30am – 5pm, Not confirmed yet

2. Coastal Oil Field Operations – Tours of Occidental Petroleum's Thums Island, Long Beach and Aera Energy's Huntington Beach Field - Cost \$100

DETAILS ON WORKSHOPS CAN BE FOUND AT WWW.LASPE.ORG

2010 WRM SPE Student Paper Contest

The student Chapters at USC and CSULB will be co-hosting the 2010 student paper contest which will be held on May 26th in conjunction with the Annual Convention of GSA/AAPG/SPE in Anaheim California. The contest will be in the categories of best papers in the BS, MS and PhD divisions. Participating schools nominate the names of their Candidates. Abstracts are due May 1, 2010. A panel of judges will be serving in the selection of the best papers. For further information please contact Idania Takimoto at peteng@usc.edu.

Industry professionals are invited to attend the program. Financial support for the contest and the awards dinner is most welcome from individuals and corporations. For further information please contact Dr. Ershaghi (ershaghi@usc.edu).

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

Latest version of Technical Program will be available at:

http://www.spe.org/events/wrm/pages/schedule/tech_program/index.php

Thursday, 27 May, 08:30 to 12:00 Room A

08:30 to 10:00

PLENARY: OPPORTUNITIES AND CHALLENGES IN THE WESTERN NORTH AMERICAN REGION

Moderators: Behrooz Fattahi, Aera Energy LLC
Raj Upadhyay, Energy Development Group

Panelists: Steven P. Rusch, Plains E&P Co
Barry Jay Biggs, Aera Energy LLC
Neal E. Schmale, Sempra Energy
Chris E. Williamson, BreitBurn Management Co
John Dennis, BP Alaska
Todd Alan Stevens, OCCIDENTAL PETROLEUM CORP

Thursday, 27 May, 10:30 to 12:30

Room A

ARCTIC OPERATIONS/PERMAFROST ISSUES/HYDRATES

Session Chairpersons: Abhijit Yeshwant Dandekar, U. of Alaska
Santanu Khataniar, U. of Alaska

- | | | |
|------|--------|--|
| 1030 | 133592 | Alaskan Heavy Oil: First CHOPS at a vast, untapped arctic resource • J.P. Young, BP; W.L. Mathews, BP Exploration (Alaska) Inc.; M. Pietrobon, BP |
| 1100 | 133601 | Evaluation of two North Slope, Alaska, deposits for a potential longterm test of gas production from hydrates • G.J. Moridis, M.T. Reagan, Lawrence Berkeley Laboratory. |
| 1130 | 132649 | The Effect of Reservoir Heterogeneity on Gas Production From Hydrate Accumulations in the Permafrost • M.T. Reagan, G.J. Moridis, M.B. Kowalsky, Lawrence Berkeley Laboratory; S. Silpngarmiert, ConocoPhillips Co. |
| 1200 | 133573 | Study on PoreScale Distribution of Frozen Water and its Effect on Relative Permeability of Oil in Permafrost Reservoir Rocks • K.K. Venepalli, U OF ALASKA. |

Thursday, 27 May, 08:30 to 12:00

Room B

ADVANCES IN DRILLING AND COMPLETION TECHNOLOGY

Session Chairpersons: Paul J. Durning, Consultant
Michael Ernest Utt, Consultant

- | | | |
|------|--------|--|
| 0830 | 132410 | Addressing Horizontal Steam Injection Completions Challenges With Chevron's Horizontal Steam Test Facility • J.H. Fram, J.C. Sims, T.C. Mayer, A. Sequera, Chevron. |
| 0900 | 134021 | Catalytic Properties of Clay Based Hybrid Materials for Drilling Operations • J. Lee, university of Pittsburgh. |

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

- 0930 132644 **Thermal Modeling of Drilling into Steam Chambers** • T.J. Hallman, RPS Energy; R.R. MacDonald, APA Petroleum Engineering Inc.; J. Gerlitz, Suncor Energy Inc; G. Hareland, U. of Calgary.
- 1030 132685 **Method for Minimizing Liner Expansion Issues in Horizontal Thermal Applications** • T.W. Cavender, Halliburton; R.L. Schultz, Halliburton Energy Services Group.
- 1100 132098 **An Improved Laboratory Method to Estimate Flow Initiation Pressures and Return Permeabilities During Flowback** • A. Suri, M.M. Sharma, University of Texas.
- 1130 133596 **Development and Field Pilot of a Novel Viscoelastic Anionic Surfactant (VAS) Fracturing Fluid** • B. Bai, J. Zhang, S. Zhang, Missouri U of Science & Tech.

Alternate

- 132372 **Directional Hole Cleaning Process Review: A Systematic View** • T. Nazari, G. Hareland, U. of Calgary.

Thursday, 27 May, 08:30 to 12:00

Room C

RESERVOIR CHARACTERIZATION

Session Chairpersons: A. M. Sam Sarem, Improved Petr Recvry Conslt Hilario Camachofernandez, Signal Hill Petroleum Inc.

- 0830 132596 **Best Practices in Testing and Analyzing Multilayer Reservoirs** • Y. Pan, Chevron ETC; M. Sullivan, D. Belanger, Chevron Corp.
- 0900 132654 **Integration Of 3D Seismic Attributes Into Stochastic Reservoir Models Using Iterative Vertical Resolution Modeling Methodology** • J. Wang, Q. Dou, Schlumberger.
- 0930 132467 **Robust Well Test Interpretation Using Nonlinear Regression With Parameter and Data Transformations** • A. Dastan, Stanford University; A. Tarantola, Institut de Physique du Globe de Paris; R. Horne, Stanford U.
- 1030 132229 **Effect of Fracture and Flow Orientation on TwoPhase Flow in an OilWet Fracture: Relative Permeability Curves and Flow Structures** • S. Shad, B.B. Maini, I.D. Gates, U. of Calgary.
- 1100 132513 **Application of Lithofacies Models to Characterize Unconventional Shale Gas Reservoirs and Identify Optimal Completion Intervals** • A. Mitra, Baker Hughes; D.S. Warrington, Baker Atlas; A. Sommer, Baker Hughes.
- 1130 132110 **Development of Petrophysical Stress Models for Conversion of Core Porosity and Permeability Data From Ambient to Reservoir Conditions: A New Hybrid Approach** • S.O. Williams, M. Solanki, S.I. Batarseh, Aera Energy LLC.

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

Thursday, 27 May, 13:30 to 17:00 Room A

EOR TECHNOLOGIES I

Session Chairpersons: Edward John Behm, Occidental Oil & Gas Corporation
 Kristian Jessen, Univ. of Southern California

- 1330 132622 **Modeling GasPhase Mass Transfer Between Fracture and Matrix in Naturally Fractured Reservoirs** • A. Jamili, G. Willhite, U. of Kansas; D.W. Green, U. of Kansas.
- 1400 133471 **Effect of Elasticity during Viscoelastic Polymer Flooding A Possible Mechanism of Increasing the Sweep Efficiency** • E. Kuru, J.J. Trivedi, UNIVERSITY OF ALBERTA.
- 1430 133599 **Effect of Interstitial Water Saturation and Air Flux on Combustion Kinetics of High Pressure Air Injection (HPAI)** • Y. Barzin, ; R.G. Moore, S.A. Mehta, U. of Calgary.
- 1530 133598 **Feasibility Investigation of CO2 Miscible Flooding in South Slattery Minnelusa Reservoir, Wyoming** • P. Gao, U. of Wyoming.
- 1600 132441 **Parallel Simulations of CommercialScale Polymer Floods** • M. Delshad, C. Yuan, M.F. Wheeler, U. of Texas at Austin.
- 1630 132619 **Novel InSitu Combustion Technique Using a SemiPermeable Colloidal System** • P.S. Limkar, DELFT U OF TECHNOLOGY.

Thursday, 27 May, 13:30 to 17:00 Room B

MATURE WATERFLOOD MANAGEMENT

Session Chairpersons: Keshav Narayanan, Occidental Oil & Gas Corporation
 Zhengming Yang, Aera Energy LLC

- 1330 132609 **Optimizing Volumetric Sweep Efficiency in Waterfloods by Integrating Streamlines, Design of Experiments, and Hydrocarbon FPHI Curves** • O. Izgec, M. Sayarpour, G.M. Shook, Chevron ETC.
- 1400 133407 **A New Diagnostic Tool for Performance Evaluation of Mature Heavy Oil Waterfloods: Case of Western Canadian Heavy Oil Reservoirs** • F. Ahmadloo, K. Asghari, U. of Regina; G. Renouf, Saskatchewan Research Council.
- 1430 132699 **Waterflood Tomography: Mapping High Contrast Permeability Structures Using Injection/Production Data** • Y. Lin, A. Ortega, ; A.M. Nejad, I. Ershaghi, U. of Southern California.
- 1530 132625 **A Multivariate Autoregressive Model for Characterizing Producerproducer Relationships in Waterfloods from Injection/ Production Rate Fluctuations** • K. Lee, A. Ortega, N. Jafroodi; I. Ershaghi, U. of Southern California.
- 1600 132524 **A More Complete Model for Injection Well Testing that Includes the Effects of Solids Deposition, TwoPhase Flow and InjectionInduced Fractures** • A. Suri, U. of Texas at Austin; M.M. Sharma, University of texas, petroleum engineering Department.

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

1630 132359 **Identifying Injector/Producer Relationship in Waterflood Using Hybrid Constrained Nonlinear Optimization** • H. Lee, K. Yao, USC ISI; O. Okpani, A. Nakano, I. Ershaghi, U. of Southern California.

Alternate

133567 **Data Driven Mapping of Liquid Saturation in Waterfloods using Injection and Production Data** • H. Shiranimehr, N. Jafroodi, P. Ghods, M. Javaheri, F. BanaeiKashani, University of Southern California; R. Beierle, Montana Tech.; I. Ershaghi, C. Shahabi, University of Southern California.

132351 **Monitoring Water Front Advance and Bilinear Flow Behaviour on Pressure Transient Tests in Horizontal Wells** • J. Siavoshi, Husky Energy Inc.

Thursday, 27 May, 13:30 to 17:00

Room C

ECONOMIC UNCERTAINTY AND RISK ANALYSIS

Session Chairpersons: **Ahmed Badruzzaman, CHEVRON ETC ,
Dale Julander, Chevron North America E & P**

1330 132629 **Intelligent Model Management And Visualization For Smart Oilfields** • C. Chelms, USC; A. Bakshi, F. Seren, Chevron North America Exploration and Production; V. Prasanna; K. Gomadam, University of Southern California.

1400 133507 **Reservoir Performance Analysis: A NonSimulation Based Case Study of a Mature Oil Field in California with both Old and New Complitions** • H. Rassamdana; A.W. Reid, M.M. Voskarian, CA State Lands Commission

1430 134005 **A Method To Quickly Estimate The Probable Value of A Shale Gas Well** • E.L. Dougherty, Jincal Chang, Maraco Inc.

1530 133626 **Integrated Risk Analysis Criteria for Managing Exploration and Development of Oil and Gas Assets** • H.A. Belhaj, The Petroleum Institute; M.R. Haroun, Univ of Southern California; T. Lay, Dalhousie University, Canada.

1600 133344 **Quantifying The Fate Of Hydrate Inhibitor in an HPHT Gas Condensate Subsea Tieback** • J.J. Wylde, Clariant Oil Services

1630 132376 **An Alternative Project Economic Measurement For Improved Results** • R. Schaaf, Aera Energy LLC.

Thursday, 27 May, 13:30 to 17:00

Room D

SPE-AAPG Joint Panel Seesion

Integrated Reservoir Modeling, linking static and dynamic models to enhance recovery

Session Chairpersons: **Fred Aminzadeh (USC) and Tad Gladczenko (Chevron ETC)**

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

This session focuses on the multi-disciplinary work by geoscientists and engineers for effective reservoir characterization using static and dynamic modeling. The results of such integrated work could be demonstrated by recent case histories in oil and gas fields in California and other parts of the Western Region where improvements in the recovery factor or production from new reservoir compartments have been achieved. Other topics would include the predictive capacity of reservoir models to test new drilling patterns, planning optimum injection parameters for enhanced oil recovery, or use of time lapse data for monitoring reservoir performance.

Friday, 28 May, 08:30 to 12:00

Room A

ADVANCED RESERVOIR MODELING CONCEPTS

Session Chairpersons: George J Moridis, Lawrence Berkeley National Laboratory
Allan Spivak, BreitBurn Management Co

- 0830 133560 **Parameterization techniques to improve mass conservation and data assimilation for ensemble Kalman filter** • Y. Chen, Chevron; D.S. Oliver, The University of Oklahoma.
- 0900 133595 **Density of high pressure and temperature gas reservoirs: Effect of nonhydrocarbon contaminants on density of natural gas mixtures** • F. Tabasinejad, Y. Barzin, S.A. Mehta, R.G. Moore, K.C. Van Fraassen, U. of Calgary; J.A. Rushing, Anadarko Petroleum Corporation; K.E. Newsham, Apache Corp.
- 0930 132093 **Accurate Simulation of Non Darcy Flow in Stimulated Fractured Shale Reservoirs** • B. Rubin, Computer Modelling Group Inc.
- 1030 133605 **Assisted History Matching of a Waterflooded Reservoir Using Extended and Unscented Kalman Filters** • P. Ghods, H. Jahangiri, D. Zhang, U. of Southern California.
- 1100 132643 **Intelligent Time Successive Production Modeling** • Y. Khazaeni, S.D. Mohaghegh, West Virginia U.
- 1130 132642 **A Hierarchical Assisted History Matching Approach With Global and Local Parameter Updates** • A. DattaGupta, J. Yin, H. Park, Texas A&M U.

Alternate

- 132621 **New Insight Into Integrated Reservoir Management Using TopDown, Intelligent Reservoir Modeling Technique: Application to a Giant and Complex Oil Field in the Middle East** • A. Kalantari Dahaghi, S.D. Mohaghegh, West Virginia U.

Friday, 28 May, 08:30 to 12:00

Room B

CO2 CAPTURE/STORAGE AND EOR

Session Chairpersons: William Barrett Occidental Petroleum Corp.
Zuwa S Omoregie, Occidental Petroleum Corp.

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

- 0830 132404 **Integrated Characterization and Simulation of the Fractured Tensleep Reservoir at Teapot Dome for CO2 Injection Design** • A. Ouenes, Prism Seismic; T.C. Anderson, Rocky Mountain Oilfield Testing Center; D. Klepacki, Prism Seismic; G.C. Robinson, Degolyer & MacNaughton; A. Bachir, D. Boukhelf, Prism Seismic; B.J. Black, Rocky Mountain Oilfield Testing Center; V.W. Stamp.
- 0900 132656 **BasinWide Pressure Changes Due to CO2 Storage: California Production as a Reverse Analog** • P. Jordan, Lawrence Berkeley Laboratory
- 0930 132607 **Effect of Gravity, Flow Rate, and Small Scale Heterogeneity on Multiphase Flow of CO2 and Brine** • C. Kuo, J. Perrin, S.M. Benson, Stanford U.
- 1030 132447 **Comparison of Chemical and Hysteresis CO2 Trapping in the Nugget Formation** • S. Behzadi, U OF WYOMING
- 1100 133621 **Optimizing CO2EOR realtime management to increase "green oil" production The Elk Hill case study** • M.R. Haroun, Univ of Southern California; H.K. Sarma, B. Ghosh, The Petroleum Institute.
- 1130 132442 **A Critical Assessment of CO2 Injection Strategies in Saline Aquifers** • M. Delshad, X. Kong; M.F. Wheeler, U. of Texas at Austin.

**Friday, 28 May, 08:30 to 12:00 Room C
CALIFORNIA MONTEREY RESERVOIRS**

**Session Chairpersons: Steve Horner, Venoco, Inc.
Gary D. Lower, Venoco Inc.**

- 0830 132411 **TemperatureInduced Fracture Reconsolidation of Diatomaceous Rock During Forced Water Imbibition** • A.R. Kovscek, J. Peng, Stanford U.
- 0900 133378 **Reconfiguring a California Platform for Offshore Crude Dehydration and Water Disposal via Injection** • T.C. Frankiewicz, Spec Services Inc.; R. VanNostrand, Venoco Inc.; R. Manning, Contract Engineer.
- 0930 133613 **Permeability Estimates for the South Ellwood Fault** • J. Boles, Univ of Santa Barbara, S.G. Horner, Venoco Inc. ; G. Garven, Tufts University
- 1030 133132 **The Effect of Temperature and Oil Viscosity Reduction on Water Imbibition of Diatomite** • A.R. Kovscek, B. Vega, Stanford U.; A.H. Urdaneta, Aera Energy LLC.
- 1100 132652 **Effective Monitoring of Microseismicity in Diatomites** • T.I. Urbancic, ESG; D.C. Bleakly, Engineering Seismology Group Canada Inc. (ESG); A.S. Murer, G.R. McNeish, Aera Energy LLC; M. Prince, Engineering Seismology Group Canada Inc.
- 1130 132653 **Characterizing Fracture Development in Diatomites with Seismic Moment Tensor Inversion Analysis** • T.I. Urbancic, A. Baig, ESG Engineering Seismology Group; A.S. Murer, G.R. McNeish, Aera Energy LLC.

**Friday, 28 May, 08:30 to 12:00
Room D
EOR TECHNOLOGIES II**

**Session Chairpersons: Serge Yervant Baghdikian, City of Long Beach
Baldev Singh Gill, City of Long Beach**

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

- | | | |
|------|--------|---|
| 0830 | 132456 | Characterizing the PlusFraction for EOS' Applications • T.H. Ahmed, ANADARKO PETROLEUM CORP; D. Meehan, Baker Hughes Inc. |
| 0900 | 133510 | Evaluation of the Effect of Wettability Alteration on Oil Recovery in Carbonate Reservoirs • J.J. Sheng, Total E&P. |
| 0930 | 132849 | Selection of ThreePhase Relative Permeability Model for MixedWet Reservoirs • V. Alvarado, S. Behzadi, U OF WYOMING |
| 1030 | 132624 | Evaluation of CO2 Injectivity From Waterflood Values • V.R. Nagineni, R.G. Hughes, Louisiana State U.; D. D'Souza. |
| 1100 | 132389 | Experimental Determination of Minimum Miscibility Pressure by GasOil IFT Measurements for a Gas Injection EOR Project • D. Saini, D.N. Rao, Louisiana State U. |
| 1130 | 132645 | Numerical Modeling of the Water Imbibition Process in WaterWet Laboratory Cores • M. Kalaei, D.W. Green, G. Willhite, U. of Kansas. |

Friday, 28 May, 13:30 to 16:30

Room A

TIGHT PLAYS AND UNCONVENTIONAL RESERVOIRS

Session Chairpersons: Joe H. Fram, Chevron Corp.
Charles H Webb, Chevron Corp.

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|------|--------|--|
| 1330 | 133615 | Simplified and Rigorous Forecasting of Tight/Shale Gas Production • M. Nobakht, Fekete Associates Inc.; L. Mattar, Fekete Associates Inc. |
| 1400 | 132521 | Impact of Reservoir Characteristics on Water Production in Enhanced Coalbed Methane Operations • K. Jessen; M. Jamshidi, U. of Southern California. |
| 1430 | 133606 | Ensemble Based Characterization and History Matching of Naturally Fractured Tight/Shale Gas Reservoirs • P. Ghods, D. Zhang, U. of Southern California. |
| 1500 | 131714 | The Permeability Factor in Coalbed Methane Well Completions and Production • I.D. Palmer, HiggsPalmer Technologies. |
| 1530 | 133620 | Application of advanced reservoir simulation work flow in tight gas reservoirs • J. Wang, J.R. Robinson, J.W. Thompson, Schlumberger; L. Fan, Schlumberger Consulting Services. |
| 1600 | 133540 | A Run History of New Technologies in the Bakken Play: Multilaterals and Increased Stage Openhole Packer/Sleeve Systems • J.G. King, Baker Oil Tools; A.S. Demarchos, Hess Corp.; N. Buffington. |

Friday, 28 May, 13:30 to 16:30

Room B

MANAGING HEAVY OIL RESOURCES

Session Chairpersons: Anthony Robert Kovscek, Stanford U.
Tom Tang, Chevron ETC

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|------|--------|---|
| 1330 | 132608 | Reservoir Simulation of Cyclic Steam Injection Including the Effects of Temperature Induced Wettability Alteration • B. Hascakir and A.R. Kovscek, Stanford U. |
| 1400 | 132537 | An Experimental Study of Alkaline Surfactant Flooding for Ultra Shallow Heavy Oil Reservoirs • Y. Wu, R.M. Hunkey, MISSOURI ST; B. Bai, S. DunnNorman, Missouri U of Science & Tech. |

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

- 1430 132492 **A Critical Review of the VAPEX Process: A Journey Through Three Decades** • V. Pathak, University of Alberta.
- 1500 132458 **Efficiency Analysis of SteamOverSolvent Injection in Fractured Reservoirs (SOSFR) Method for HeavyOil Recovery** • T. Babadagli, A.M. Al Bahlani, U. of Alberta.
- 1530 134002 **Testing and History Matching of ESSAGD (Using Hexane)** • O.R. Ayodele, Shell Exploration & Production.
- 1600 131933 **Further Improvements in PoreScale Studies of SAGD Process** • O. Mohammadzadeh, N. Rezaei, I. Chatzis, University of Waterloo.

Alternate

- 133376 **Biodiesel as Surfactant Additive in Steam Assisted Recovery of Heavy Oil and Bitumen** • T. Babadagli, U. of Alberta; B. Ozum, Apex Eng.
- 133453 **Numerical Simulation of Thermal Solvent Replacing Steam under Steam Assisted Gravity Drainage (SAGD) process** • W. Li, D.D. Mamora, Texas A&M U.

Friday, 28 May, 13:30 to 16:30 Room C

ADVANCES IN COMPLETION AND PRODUCTION OPERATIONS

**Session Chairpersons: Stephen K Cheung, Consultant
Bradford R Pierce, BreitBurn Operating LP**

- 1330 133619 **A Novel Oilfield Scale Control Approach insitu Ion Diversion Through Electrokinetics** • M.R. Haroun, Univ of Southern California; B. Ghosh, Petroleum Institute; S. Pamukcu, Lehigh University; J.K. Wittle. ElectroPetroleum Inc.; M.A. Al Badawi, The Petroleum Institute; G.V. Chilingar, U. of Southern California.
- 1400 133591 **Chemical Treatment to Mitigate Condensate and Water Blocking in Carbonate Gas Wells** • M. Ahmadi, D.E. Torres, M.M. Sharma, H. Linnemeyer, G.A. Pope, U. of Texas at Austin.
- 1430 133500 **Sand on Demand: An Approach to Improving Productivity in Horizontal Wells under Heavy Oil Primary Production Part II** • B. Meza Diaz, R.P. Sawatzky, Alberta Research Council; E. Kuru, U. of Alberta.
- 1500 132564 **Heavy Oil Production Enhancement by Viscosity Reduction** • P.J. Shuler, ChemEOR; Y. Tang, California Inst. of Technology; H. Tang.
- 1530 132012 **An Analysis of the Performance of Gravel Packs and Slotted Liners in Heavy Oil Operations** • N. Akhimiona, A. Auffant, T.L. Gorham, Chevron USA Production Co.; J.P. Harrelson, Colorado School of Mines.
- 1600 132605 **Gel Damage Remediation by Evaporative Mechanisms: A Laboratory Investigation** • J. Mahadevan, D.H. Le, U. of Tulsa; K.H. McQueen, The Williams Companies Inc.

Alternate

- 133610 **A New Model for Predicting Inflow Performance of Fractured Horizontal Wells** • H. Yuan, IHS Inc; D. Zhou, HIS.
- 133587 **Research Progress of Modelling on Cold Heavy Oil Production with Sand** • Y. Pan, ; Z. Chen, University of Calgary; L. Xiao, China university of petroleum; J. Sun, X. Bao, University of Calgary.

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

**Friday, 28 May, 13:30 to 15:30
Room D**

SOCIAL RESPONSIBILITY, HEALTH, AIR AND WATER QUALITY AND GHG EMISSIONS

Session Chairpersons: Mark A Shemaria, Environmental, Health & Safety Consultant

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|-------------|---------------|---|
| 1330 | 133131 | Enhancements to GPSBased Subsidence Monitoring at the Wilmington Oil Field • S. Baghdikian, J.D. Jepson, K. Holtz, City of Long Beach; L. Bock, J. Fayman, G. Mader, Geodetics, Inc. |
| 1400 | 132258 | Technical Evaluations to Support the Decision to Reinject Produced Water • E. Zuluaga, Chevron Corp.; P.J. Evans, Chevron ETC; P.R. Nesom, Chevron International E&P; P.A. Spratt, Nalco Co.; E.J. Daniels, Chevron ETC. |
| 1430 | 132604 | An Analysis of the Challenges Confronting Carbon Capture and Sequestration • D.J. Winslow, Chevron Corp. |
| 1500 | 133604 | Remediation of Possible Leakage from Geologic CO2 Storage Reservoirs into Groundwater Aquifers • A. Esposito, S.M. Benson, Stanford U. |

2010 SPE WESTERN REGIONAL MEETING

Technical Sessions and Exhibits at Anaheim Marriott Hotel, May 27-28

Poster Session: Thursday 12:00-13:30

SPE-132645-PP	Kalaei, M Hosein	University of Kansas	Numerical Modeling of the Water Imbibition Process in Water-Wet Laboratory Cores
SPE-132651-PP	Mondal, Satyajit	University of Alaska, Fairbanks	Tight Gas Exploitation: A Stochastic Modeling Study of a Low Sinuosity River System Representative of Tight Gas Sandstone in Cook Inlet, Alaska
SPE-133490-PP	Sheng, James	Total E&P	New Concepts of the Optimum Microemulsion Phase Type and the Optimum Salinity Profile in Surfactant/Polymer Flooding
SPE-133611-PP	Aguilera, Roberto	U. of Calgary	STORAGE AND OUTPUT FLOW FROM SHALE AND TIGHT GAS RESERVOIRS
SPE-132626-PP	Odi, Uchenna	Texas A&M University	Ensemble Based Optimization of EOR Processes
SPE-131985-PP	Paidin, Wagirin	Louisiana State U.	The Potential of NCG-Enhanced SAGD Application in US Heavy Oil Reservoirs
SPE-133594-PP	Jahangiri, Hamid Reza	U. of Southern California	Optimization of Carbon Dioxide Sequestration and Enhanced Oil Recovery in Oil Reservoir
SPE-132515-PP	Jabbari, Hadi	University of North Dakota	A New Semi-Analytical Modeling of Toe-to-Heel Air Injection in In-Situ Combustion Process
SPE-132606-PP	Mahadevan, Jagannathan	U. of Tulsa	Productivity Loss in Gas Wells Due to Salt Deposition
SPE-133566-PP	Yousef, Ali	Saudi Aramco	Field Brine Composition Impact on Tertiary Oil Recovery from Carbonate Reservoirs- An Experimental Study
SPE-132459-PP	Babadagli, Tayfun	U. of Alberta	Mechanics and Up-Scaling of Heavy-Oil Bitumen Recovery by Steam-Over-Solvent Injection in Fractured Reservoirs (SOS-FR) Method
SPE-132700-PP	Gill, Baldev	City of Long Beach	An Analytical Methodology to Determine Oil-in-Place: Aquifer Influx and Ultimate Sweep Efficiency of a Mature Heavy Oil Waterflood in the Wilmington Basin
SPE-132633-PP	Li, Xin	Knowledge Reservoir, LLC	Investigation of Oil By-passed Mechanisms for Improved Oil Recovery in Deepwater Gulf of Mexico
SPE-133593-PP	Jung, Woodong	Texas A&M U.	Simulation of time-lapse mineral carbonation and isotope fractionation of injected CO ₂ in aquifer: Implications for monitoring CO ₂ sequestration
SPE-132431-PP	Babadagli, Tayfun	U. of Alberta	Calculating Equivalent Fracture Network Permeability of Multi-Layer-Complex Naturally Fractured Reservoirs
SPE-133545-PP	Liu, Shuping		Failure Prediction for Artificial Lift Systems
SPE-132534-PP	El Shaari, Nabil	BJ Services Company	Improved Well Fracture Stimulation Performance through the Application of Unique Solid Chemical Inhibitors
SPE-133533-PP	Al-Otaibi, Ajab	Colorado School of Mines	Transient Behavior and Analysis of Non-Darcy Flow in Porous and Fractured Reservoirs According to the Barree and Conway Model
SPE-132369-PP	Jiang, Haifeng	University of Wyoming	The Effect of Salinity of Injection Brine on Water Alternating Gas Performance in Tertiary Miscible Carbon Dioxide Flooding: Experimental Study

2010 SPE WESTERN REGIONAL MEETING

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SPE-133298-PP	Li, Weiqiang	TEXAS A&M U.	Simulation Investigation of Solvent Co-Injection in Vapor and Liquid Phase to Reduce Shale Barrier Impact on SAGD Performance
SPE-132545-PP	Cheng, Kun	Texas A&M U.	A Novel Optimization Model for Analyzing Production Data
SPE-134006-PP	Zhai, Daoyuan	U. of Southern California	An Inequality-Constrained Extended Kalman Filter for Continual Forecasting of Interwell Connectivities in Waterfloods
SPE-132363-PP	Al Shuwaikhat, Hisham	Saudi Aramco	Energy Conservation and Oil Production Opportunities in Ghawar Field in Saudi Aramco
SPE-133414-PP	Lane, Robert	Texas A&M U.	Deep Placement Gel Bank As An IOR Process: Modeling, Economic Analysis And Comparison To Polymer Flooding
SPE-133539-PP	Fuentes-Cruz, Gorgonio	Inst. Mexicano del Petroleo	A Unified Approach for Falloff and Buildup Tests Analysis Following a Short Injection/Production Time

LASPE BOARD MEETING MINUTES
MARCH 9, 2010

1. The meeting was called to order at 10:45 AM

Attending were:

Brandy Fellers	Senior Past Chair
Rick Finken	Treasurer
AB Gorashi Abdulrahman	Board Member through 2011
Scott Hara	Community Outreach Chair
Vanessa Perez	Chairperson
Ed Santiago	Elementary Outreach
Jack Smith	Scholarship Chair
Jalal Torabzadeh	Junior Past Chair
Mike Utt	Vice Chair, Board Member through 2010
Bob Visser	Assistant Treasurer
Craig Webster	Scholarship Committee
Matthew Perry	President, CSULB Student Chapter
Steve Esparza	CSULB Student Chapter

2. The meeting agenda was approved.
3. The minutes of the meeting of February 9, 2010 were approved.
4. Announcements:
 - a. At February's meeting Mike Utt was selected by the Board to fill the vacant position of Vice Chair of the Board.
 - b. As budgeted, a check for \$1,000 was presented to the Long Beach Unified School District in support of their Science Fair.
5. Reports
 - a. Treasurer's Report: There was a lot of activity in February with income exceeding expenses by \$2,154. Expenses consisted of \$1,000 for Long Beach Science Fair support, \$518 covering Student Chapter members' SPEI dues for 2009-2010, \$368 for newsletter, website and website hosting and \$168 to set up the website PayPal link for the Annual Charity Golf Tournament. Income consisted of initial Annual Charity Golf Tournament registrations totaling \$3,314, \$644 from SPE for the Section Dues Rebate and \$250 for one newsletter ad plus the usual tiny amount of checking account interest. The total value of LASPE's assets was \$65,559 at February month-end.

MINUTES CONTINUE...

- b. Annual Golf Tournament: Progress is good, with several foursomes sold already. The PayPal link is up and working on the web site. (www.laspe.org)
- c. Student Chapters: the President of the SPE Student Chapter at Cal State Long Beach, Matthew Perry, attended part of the meeting and presented a brief report on their activities. They recently held their first general meeting, and are planning collaboration with the AIChE club, and participation in the Associated Engineering Student Body (AESB) organization. AESB has a "meet the industry" night planned for April 2010.

6. Old Business

- a. Western Region Continuing Education Programs: Scott Hara reported good progress. Only a couple of items are still needed, including a description of the LA Urban Oilfields tour, and a course description for Dr. Sarem's portion of the Environmental Issues Workshop.

The workshops on May 25 and 26 are each scheduled for a half-day, with the exception of the workshop on Thermal Oil Recovery, which will be a full day. The course fees will be \$100 per half-day, \$200 for the full day.

- b. Legion of Honor: Chairperson Vanessa Perez will write a letter inviting 50-year members in the LASPE's area to attend an upcoming Forum meeting of their choice to receive their plaques.

7. New Business

- a. Outreach: LASPE received a request from SPE International to pay for the cost of educational materials for an upcoming Energy4Me teachers' workshop to be held in Long Beach. A motion was made, seconded and approved to spend \$420 for that purpose.
- b. Craig Webster was introduced to the Board. He has volunteered to assist Jack Smith with Scholarship and Science Fair activities.

- 8. The meeting was adjourned at 11:50 AM.

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E-mail	Names	Position
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dremmw@yahoo.com	Eric Withjack	Board Member-2010
		Awards and Recognition
SantiaE@slc.ca.gov	Ed Santiago	Elementary Outreach
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Mark_Shemaria@oxy.com	Mark Shemaria	Golf Tournament Chair
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Rcvbelmar@aol.com	Robert Visser	Assistant Treasurer
Rick_Reeves@oxy.com	Rick Reeves	Board member-2011
Sam4IPRC@aol.com	Sam Sarem	Nominating Committee
Scott_Hara@oxy.com	Scott Hara	Community Outreach
SmithjL@slc.ca.gov	Jack Smith	Scholarship Chair
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lovesm@ix.netcom.com	Scott McGurk	2006-2007-Past year
Richard.finken@longbeach.gov	Rick Finken	Treasurer
rweibel@semprautilities.com	Rudy Weibel	

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