



Los Angeles Basin Section
www.laspe.org

Los Angeles Basin Section Society of Petroleum Engineers

A Message from the Chair



Hello fellow
SPE Members-

All board and
committee
members have
been diligently
preparing for

the 2010 SPE Western Regional Meeting (WRM) in collaboration with the Pacific Section AAPG and Cordilleran Section GSA. On January 19, the Program Committee met at the USC campus to finalize the technical program for the WRM meeting. After couple of hours the committee made a final selection and organized the topics that would best suit the conference. Thank you Dr. Iraj Ershaghi for hosing the meeting. The board appreciates all the work and time you spend serving as the Program/Technical Chairman. I appreciate all those who attended the meeting even with the bad weather conditions that day. The meeting allowed us to finalize and prepare for short course topics/

workshops, organizing the agenda for the awards luncheon, and deciding on days, locations and prices for the proposed field trips.

Mark your calendars the WRM will be held on May 27-29, 2010 and the theme is "From Mountains to Main Street". We will continue to request volunteers as we approach closer to the event. SPE will have a special booth in the exhibit halls that will others to sign up for renewal or new membership. Booth will also contain information regarding SPE. If you would like to volunteer your time to help out at the booth, please contact Brandy Fellers or Bob Visser. I would also like to thank Dr. Jalal Torabzadeh, our WRM Chairperson and our Co-Chairperson Scott Hara for continuing to make all necessary arrangements. We are currently adding new material regarding the WRM on the website at www.laspe.org.

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PETROLEUM TECHNOLOGY FORUM PROGRAM, FEBRUARY 9, 2010

The next **Petroleum Technology Forum** will be held on **Tuesday, February 9, 2010** at the Long Beach Petroleum Club, 3636 Linden Avenue, Long Beach, CA 90807. Our guest speaker will be Paul Branagan, Branagan and Associates, who will be giving a presentation entitled **An Accurate Physical Model: Essential for the Economic Development of Complex Reservoirs**. Abstract & bio follow on Page 3...

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

...continued from page 1

In other news, January 12, 2010, the LA Section's Board of Directors approved a motion to sponsor student chapter dues for members in our area up to \$1,000 for the 2010-2011 membership year. The monies would be taken from budgeted Scholarships funds current fiscal year. Rick Finken has calculated and reviewed our student list and found the 518 students in our area could use our sponsorship. Total LA Section support would be \$518.

I would also like to announce that during our last board meeting, LASPE appointed Jack Smith as a New Board of Directors member through the 2010 year. Jack has continued to serve as our Scholarship and Science Fair Chairman and does a great job every year. I have also asked Mike Utt, active board member, to serve as the Vice Chairperson for the 2009-2010 year and he has gladly accepted. We will hold the voting on our February board meeting. Tasks include running the monthly Board meetings when I am absent and working with the Chairperson on all section chair responsibilities. He will also serve as LA Section Chairperson starting September 2010 through October 2011 year. Thank you Jack Smith and Mike Utt.

Reminder: nominations for the 2010 SPE International Awards are due by February 15, 2010. Please check out the awards and criteria at http://www.spe.org/about/honors/spe_awards.php. SPE is glad to recognize our fellow SPE members that go above and beyond to make sure that the society remains strong both locally and internationally. The awards enable us to recognize distinguished members and their contributions to the society.

See you all on February 9, 2010, Forum Meeting.

Vanessa Perez
SPE Chairperson

Calendar

2010

February 9th

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 27-29th WRM Anaheim, CA

LASPE and the AAPG, Pacific Section will host the Western Regional Meeting at the Anaheim Convention Center.

OCEC ENGINEER'S WEEK

The OCEC wishes to invite you to participate in the celebration of the engineering and scientific professions' accomplishments during the Engineers' Week in February of 2010. We will be having our Engineering Awards Banquet at The Centre, Sycamore Plaza in Lakewood, CA on **Saturday, the 20th of February**. Details about the event will be posted on www.OCEC.org.

The Orange County Engineering Council is an umbrella organization of all engineering and scientific societies in our county and is engaged in many activities which promote technical disciplines.

To register for the Awards Banquet, please fill out the ticket order form on the flyer available on the OCEC web site www.OCEC.org (including your meal selections), and mail the completed form with your payment to Phil Ridout, OCEC Treasurer, 6962 Los Amigos Circle, Huntington Beach, CA 92647 prior to February 13, 2010

An Accurate Physical Model: Essential for the Economic Development of Complex Reservoirs

by Paul Branagan, Branagan and Associates

Abstract:

Complex reservoirs and composite production mechanisms are the rule not the exception for the oil and gas industry worldwide. Commercialization of these types of field environments requires engineers and geologists to have an integrated and comprehensive understanding of the characteristics of these complexities. This is a prerequisite to establishing an accurate physical model from which to advance the proper development strategy. The results and conclusions from more than a decade of field research done at the MWX and M-Site project sites conducted in the Piceance basin of western Colorado will be discussed. The project sites included 3 closely spaced test wells, e.g. <250 ft apart, a nearby offset well implanted with microseismic devices and downhole tilt meters, and a slant well to intersect hydraulic fractures. An extensive set of measurements, tests, and analysis provided the research team with an extraordinary view of these reservoir complexities that were originally unforeseen, but once understood, eventually played a significantly role in altering the more commonly used conventional procedures, techniques, and methodology in the development of tight

reservoirs. The presentation will include data sets, interpretations, analysis, and some nuances regarding low porosity, very tight matrix rocks, natural fractures, highly elliptic drainage patterns, stimulation enhancement, lenticular or compartmentalized reserves, and well spacing. Although the mere presence of reservoir complexities seems a bit foreboding once their existence, characteristics, and interactions are defined, then a comprehensive field wide economic development strategy can be advanced.

Biography:

Paul Branagan is a physicist with more than 30 years' experience in the industry. Most of his work involved large scale commercial and R&D technical projects. He was technical manager for several



Department of Energy (DOE) and Gas Research Institute (GRI) sponsored R&D projects including the Western Gas Sands, MWX, M-Site, and Slant Hole and Horizontal Well Projects. The primary goal for these decade long, multi-million dollar projects was to identify marginally productive gas reservoirs, develop the proper completion techniques

for enhanced commercial production, increase petroleum reserves, and provide the proper economic balance to entice renewed interest in speculative reservoir environments such as tight gas sands, coal bed methane, and shales. He has been a technical consultant for many major oil and gas companies assisting them in the design and implementation of enhanced production strategies. Branagan has written numerous SPE articles concerning the assessment, testing, stimulation, and commercial development of hydrocarbon production in various complex reservoir settings. He is a 25 year SPE member.

Katherine Wallgren
Forum Chairperson
Katherine_Wallgren@oxy.com

Visit www.LASPE.org

**PETROLEUM TECHNOLOGY FORUM
PHOTOS FROM JANUARY 12TH PRESENTATION**

**EXPANDABLE TECHNOLOGY:
VALUE DRIVEN SOLUTIONS FOR DRILLING AND PRODUCTION**

by Doug Durst,
Enventure Global Technology



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

alike 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 with a large portion of the LA Basin's operating funds. Make your plans to attend early; this event sells out, so don't get left out! Contact Mike Filbey, mike_filbey@oxy.com for more information or sponsorship opportunities.

Tickets available on
www.LASPE.org



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

Anaheim Convention Center, May 25-26

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

2010 SPE WESTERN REGIONAL MEETING

Anaheim Convention Center, May 25-26

Continuing Education Program

The following technical workshops and field trips are planned. Details will be forthcoming.

1-Petroleum Reserves and Economics Fundamentals Richard Miller: Richard Miller and Associates,

2-Streamline Simulation for Reservoir Surveillance and Flood Management Marco Thiele: Streamsim Technologies

3-Oil and Gas Environmental Technologies
Sam Sarem: President, Improved Petroleum Recovery Consultants

4-Thermal Recovery -
Anthony R. Kovscek: Professor, Stanford University

5-Introductory Workshops
Drilling Engineering 101
Val Lerma: President, Orchard Petroleum

6-Introduction to Petroleum Engineering
Mason Mehdizadeh: Professor Cal Poly SLO

7-Intro to Well Logging,
Janice Gillespie: Professor, CSU Bakersfield,

8-Geology for the Non-Geologist,
Janice Gillespie: Professor, CSU Bakersfield

9-Facility Engineering Design
Lisa Denke: Project Manager, DCCK Engineering

Field Trips

A - Los Angeles Basin Urban Oil Field Tour
John Jepson: City of Long Beach; and Don Clarke: Consultant

B - Coastal Oil Operations Tour of Oxy's Thums Island, Wilmington Field and Aera's Huntington Beach Field Kate Wallgren and Brandy Fellers: Oxy Long Beach Inc; and Anthony McDaniels: Aera Energy

2010 SPE WESTERN REGIONAL MEETING

Anaheim Convention Center, May 25-26

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

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|------|--------|---|
| 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. Silpngarmert, 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

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|------|--------|--|
| 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

Anaheim Convention Center, May 25-26

Operations • J. Lee, university of Pittsburgh.

- 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

Anaheim Convention Center, May 25-26

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

Anaheim Convention Center, May 25-26

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 Non-Simulation Based Case Study of a Mature Oil Field in California with both Old and New Completions • 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 Session

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

Anaheim Convention Center, May 25-26

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

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|------|--------|--|
| 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

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| 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. |
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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

Anaheim Convention Center, May 25-26

- 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

Anaheim Convention Center, May 25-26

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|------|--------|---|
| 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.

- | | | |
|------|--------|--|
| 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

- | | | |
|------|--------|---|
| 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

Anaheim Convention Center, May 25-26

- 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

Anaheim Convention Center, May 25-26

**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

Anaheim Convention Center, May 25-26

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

Anaheim Convention Center, May 25-26

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 SUMMARY
JANUARY 12, 2010

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

Attending were:

Brandy Fellers	Senior Past Chair
AB Gorashi Abdulrahman	Board Member through 2011
Scott Hara	Community Outreach Chair
Vanessa Perez	Chairperson
Sam Sarem	Director, SPE International
Jalal Torabzadeh	Junior Past Chair
Mike Utt	Secretary, Board Member through 2010
Bob Visser	Assistant Treasurer
Eric Withjack	Board Member through 2010

2. The meeting agenda was approved.

3. The minutes of the meeting of December 9, 2009 were approved.

4. Announcements:

a. Nominations for SPE Distinguished Lecturers are due no later than February 1.

b. Regional Award nominations (including Service Awards, Outstanding Young Member Awards and Technical Awards in various specialties) are due no later than 15 February

5. Reports

a. Treasurer's Report: For December 2009, expenses exceeded income by \$1,146. Expenses consisted of \$987 to support the Young Professional Group's USC Tailgate on December 5th and \$260 for newsletter, website and hosting. Income consisted of \$100 for one newsletter ad plus the usual tiny amount of checking account interest.

The total value of LASPE's assets was \$65,582 at year-end 2009.

b. Dr. Sam Sarem shared a copy of the Alaska Section's newsletter, and pointed out some areas where LASPE could follow their good example.

6. Old Business

a. Orange County Engineering Council: Dr. Sarem reminded the Board that, as a member organization of OCED, LASPE has the opportunity to nominate engineers for awards, such as Young Engineer of the Year.

b. 2010 Western Region Meeting

The Student Paper competition at the 2010 Western Region Meeting will be held on Wednesday, May 26. The contest will be administered by USC, under the leadership of Professor Iraj Ershaghi.

The 2010 Western Region Meeting will include an Awards Luncheon. The Master of Ceremonies will be Dr. Sam Sarem.

There was discussion of several of LASPE's responsibilities in preparation for, and during, the upcoming 2010 Western Region Meeting. Some people were identified to take responsibility for several of those responsibilities. Not all of those people were present in the meeting, and some will be notified later by the Chairperson.

7. New Business

a. Chairperson Perez shared a letter from SPEI, noting that there is no corporate sponsor to subsidize Student Chapter memberships for 2010. SPEI is encouraging local Sections to subsidize Student Chapter dues from the scholarship budget. After some discussion, Mike Utt moved that LASPE should fund 100% of student dues at the universities in our area, with a maximum of \$1,000. Brandy Fellers seconded the motion and it was approved by the Board.

b. Rudy Weibel has left the LASPE Board. At the request of Chairperson Perez, Jack Smith (Scholarship Chairman) has agreed to re-join the Board to fill Mr. Weibel's term. The Board unanimously approved the appointment of Jack Smith as a Board member.

The meeting was adjourned at 11:55 AM.

- IN MEMORIAM -

ED MAYER

Ed Mayer passed away on January 19, 2010. He was a great friend of LASPE, a real force in SPE and in our industry in general. His knowledge, helpful suggestions and contributions will be missed. Ed served LASPE long and well, helpfully offering advice and suggestions on many topics at Board meetings and with the Monthly Petroleum Technology Forum. He joined SPE as a student member in 1950.

Ed received his BS degree in Petroleum Engineering from Stanford University and an MS degree in Petroleum Engineering from USC. He was a licensed engineer in California. His career spanned 50 years working as a petroleum engineer for Chevron, Monterey Oil, Exxon and Occidental. He served as chief staff engineer and senior engineering advisor for THUMS Long Beach Company nearly 30 years.

His service to the Society of Petroleum Engineers has been on the Section, Regional and Society level. SPE has recognized Ed as an innovator in technology application and a leader in professional activities. He was a member of the SPE Legion of Honor (50 years membership) and received the Distinguished Service Award and the Distinguished Member Award. He is an Honorary Member of SPE.



Ed retired from THUMS Long Beach in 1993 and immediately got even more involved with SPE activities. Ed was Co-Chairman of the program committee for the 1997 Western Regional meeting and served on the Program Committees for the 2000 and 2003 Western Regional Meetings. He served on the Program and Steering Committees of the SPE/EPA Environmental Conferences in 1993, 1995 and 1999. Other oil industry activities include the program committee for the 1996 International Conference and Exhibition on Oil and Gas Development in Russia and New Independent States and as a liaison member of the AAPG Division of Environmental Sciences.

In recognition of his many years of dedicated and innovative service, Ed was awarded Honorary Membership in 2006. Honorary Membership is conferred on individuals for outstanding service to SPE and/or in recognition of distinguished scientific or engineering achievement in fields encompassed in the Society's technical scope. Honorary Membership is the highest honor the Society bestows on an individual and it is limited to 0.1% of the Society's total membership. Ed proudly received his award at the 2006 Annual Technical Conference and Exhibition in San Antonio, Texas.



There are more activities, chairmanships and committee memberships that could be listed, so the above highlights some of the most significant. But in the final analysis, Ed was a great guy and a credit to our profession.

In photo at left are Ed's sons Dave, Tom and grandson Paul Mayer.

The Press Telegram obituary can be seen at this link http://www.presstelegram.com/search/ci_14281807?IADID=Search-www.presstelegram.com-www.presstelegram.com .

LASPE Community Outreach - Results!

Every year, LASPE supports elementary, middle and high school students interested in math and science with financial grants to science fairs, visits to classrooms and targeted programs such as energy fairs at CSULB and USC. One area of support has been to Mike Phillipow who teaches geology at Long Beach Poly High School. Our involvement is financial and personal supporting and participating in the geology field trips here in the LA Basin.

The idea is to nurture and expand any interest Mike's students may have in continuing to study geology and science related curriculums in their college careers. It is working.

Rick Behl, geology professor at CSULB reports that Mike is starting to build a real legacy as several Poly geology students are enrolled in his courses and are all excellent students. It's nice to see that our support of the sciences is paying off.

Thanks to all LASPE members for supporting the Annual Charity Golf Tournament and other fund raising activities providing the funds needed to continue our community outreach activities.

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CURRENT BOARD, OFFICERS & CHAIRS

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E-mail	Names	Position
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Candra_Janova@oxy.com	Chandra Janova	Young Professionals
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Sam4IPRC@aol.com	Sam Sarem	Nominating Committee
Scott_Hara@oxy.com	Scott Hara	Community Outreach
SmithjL@slc.ca.gov	Jack Smith	Scholarship Chair
torabzad@csulb.edu	Jalal Torabzadeh	Junior past chair
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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