

# Los Angeles Basin Section Society of Petroleum Engineers

*Recipient of the 2011 SPE President's Section Award for Excellence*

## A Message from the Chair

### **New Chairperson, Petroleum Forum Moved to Special Date, New Officers and Board Members**



Dear Fellow SPE Members,

First, I need to mention that this month's LASPE Petroleum Technology Luncheon Forum has been moved one week because of the speaker's schedule conflict due to the SPE Annual Conference and Exhibition in San Antonio, Texas. Please mark your calendar that this month's meeting will take place Tuesday, October 16, at the Petroleum Club in Long Beach!

At the beginning of the meeting, I will share with you a brief summary of the recent Membership Survey results. Thank you again for all those who participated and voiced your opinion. Do you remember the survey many of you submitted at the beginning of summer? Are you curious about the results of the Survey and wonder who won the \$100 prize? Come attend the October 16 meeting. You will be able to hear the members' preferences, and how the Board plans to use the Survey results. You will also watch the prize drawing and see if you are the lucky one.

My name is Steve Cheung and I am excited, eager, and honored to serve as your Chairperson for 2012 - 2013. My goals for this term are to understand the needs of the membership and to work diligently with Board members and officers to serve best the interests of our Section. I hold a chemistry degree (Ph.D., UC Irvine) and a Petroleum Engineering Degree (M.S., USC). I worked for Chevron for almost 30 years and recently retired to start my

*continued on page 2....*

## Contents

Petroleum Technology Forum - Nature Meets Oil Production - **October 16** \*\*Special Date\*\*  
pages 1 & 3

Members Join Legion of Honor  
page 2

Images of September 19th Forum  
page 4

Professor Ershaghi Honored  
page 5

USC Student Chapter News  
pages 6-8

OCEC Leaders Luncheon  
page 9

SPE WRM with APPG  
page 10

"MORE- 2012"  
page 11

Open Hole Logging Course  
page 12

Minutes from LASPE BOD Meeting September 19th  
pages 13

Services Offered  
page 14

Officers and BOD  
page 15

[www.LASPE.org](http://www.LASPE.org)

### **PETROLEUM TECHNOLOGY FORUM PROGRAM, \*\*\*OCTOBER 16, 2012\*\*\***

The next Petroleum Technology Forum will be on special date - Tuesday, October 16 at the Long Beach Petroleum Club. The speaker is Brian Brazeal of Glori Energy *Abstract and speaker bio follow on page 3.*

<u>Location:</u>	<u>Time:</u>	<u>Cost:</u>
Long Beach Petroleum Club 3636 Linden Avenue Long Beach, CA 90807	Registration: 11:30 AM Buffet Lunch: 11:30 AM Presentation: 12:00-1:00 PM	\$25.00 members, \$30.00 non-members, Free for students

Message from the Chair...*continued from page 1*

own consulting business. During the summer, I teach a graduate-level Petroleum Engineering class at USC. Over the years, I have personally benefited tremendously from being an SPE member. I learned a lot from attending technical meetings, conferences, workshops and classes. By taking advantage of networking with other SPE members, I learned a lot more than what I would have ever gained from just reading books. Throughout my career, I have always enjoyed volunteering in SPEI activities, such as serving as technical editor, conference and workshop chair, Distinguished Lecturer, and member of various SPE committees. On a personal note, I always enjoy traveling and exploring the world. When I worked for Chevron, I was fortunate to visit over 60 countries. I just came back last Friday from a six-week overseas trip that combined business with pleasure. The trip was tiring and, but at the same time, I felt energized. If you want to see my eyes light up, just mention SPE or travel, and we can talk for hours!

As the incoming Chair, I thank all the 2011-2012 Board members and officers for their hard work to make the Section run smoothly and effectively. In particular, I want to thank our past WNAR Director, Sam Sarem, and Past Chairpersons Eric Withjack and Mike Utt, for giving me excellent advices in preparation for my tenure as your incoming Chairperson. I would also like to give special thanks to Vanessa Perez for her valuable assistance and many years of service to the section, former Secretary, Rachel Spitz for her hard work, and to former Scholarship Committee Chair, Jack Smith, for his willingness to step in when urgently called upon. I express my appreciation to the Newsletter Editor, Larry Gilpin, for the web-site and newsletters. I also need to acknowledge the Golf Tournament Volunteers whose efforts are critical to funding our Scholarship and Outreach programs.

I offer a warm welcome to the two new Board members, Ted Frankiewicz and Jaime Villatoro; Secretary, Christian Vaccese; and Forum Program Co-Chair, Uduak Ntuk. I look forward to working with Vice-Chair, Baldev Gill, other members of the Board of Directors, and Committees to serve the general membership. A sincere welcome to the new incoming Director of the Western North America Region (WNAR), Tom Walsh, and look forward to working with him and the SPEI staff.

If you are interested in volunteering and contributing to the Section's success, please don't hesitate to contact me or a member of the Board. I look forward to seeing many of you at the monthly Forums.

Steve Cheung  
Chairperson 2012-2013

**OF SPECIAL NOTE - Members Enter into the SPE Legion of Honor**

We would like to congratulate **John Cochrane, Wayne Compton, Lynne Davison and Mark Webster** for becoming a SPE Legion of Honor member. They have achieved their **50 years of consecutive membership in the society.**

Steve Cheung  
Chairperson 2012-2013

FORUM FROM PAGE 1 . . .

## **PETROLEUM TECHNOLOGY FORUM- A SPECIAL DATE ON OCTOBER 16, 2012**

### **Nature Meets Oil Production**

**Brian Brazeal, Glori Energy**

Abstract:

#### **GLORI ENERGY**

Glori Energy's mission is to sustainably and efficiently recover billions of barrels of oil trapped in reservoirs using existing oil wells through the deployment of its AERO™ (Activated Environment for Recovery of Oil) System. Glori's AERO™ System enhances production from waterflooded wells by stimulating a reservoir's naturally occurring microbes to improve water sweep and oil mobility. Waterflood technology injects water into reservoirs to release additional quantities of oil that were unrecoverable during primary recovery. Conventional waterflooding only extracts a fraction of all discovered oil, leaving the majority underground. The AERO™ System provides a new, viable option to recover this trapped oil with minimal new footprint or investment. Glori provides its services to oil producers to significantly increase their production. In addition, the company's Phoenix Initiative acquires end-of-life and abandoned assets and deploys the AERO™ technology to increase the value of these assets.

Bio:

Brian Brazeal, Glori's Director of Business Development for the US, also has a long history in the oil industry. Mr. Brazeal joins Glori after recently serving four years as Senior Business Development for an EOR/IOR technologies organization headquartered in Edmonton, Canada. His further experience includes serving as President and Founder of Texrock Land and Energy where he was responsible for initiating and negotiating large acreage positions in the Barnett Shale of North Texas for several large independent producers and 10 years as Chief Executive Office of MEC Inc. in Dallas, Texas. Mr. Brazeal's background is also inclusive of exploration and drilling in the Permian Basin. His expansive industry knowledge and contacts will be applied in expanding Glori's business efforts in the US market through targeted field acquisitions and increased field redevelopment projects.

Leila Rashedi Vlasko  
Forum Chairperson  
[lvlasko@betaoffshore.com](mailto:lvlasko@betaoffshore.com)

**PHOTOS FROM SEPTEMBER 19TH FORUM PRESENTATION**

at a joint meeting with CCCOGP

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES - ISSUES, CHALLENGES, OPPORTUNITIES AND THE PATH FORWARD**

**BY TIM KUSTIC, STATE OIL AND GAS SUPERVISOR**



**PROFESSOR IRAJ ERSHAGHI SELECTED  
FOR  
SPE HONORARY MEMBERSHIP**



We are very proud to announce and congratulate Professor Iraj Ershaghi from USC for being conferred the SPE Honorary Membership. The award 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 SPEI bestows on an individual and is limited to 0.1% of the society's total membership. Let's put our hands together, and congratulate the Professor and tell him that we are very proud of him.

Iraj Ershaghi is the Omar B. Milligan professor and director of the petroleum engineering program at the University of Southern California (USC). He also serves as executive director of the USC/Chevron Center for Interactive Smart Oilfield Technologies. He worked for SIRIP, Signal Oil and Gas, and the California State Lands Commission before joining the faculty at USC. He earned a BS degree from the University of Tehran and MS and Ph. D. degrees from USC – all in petroleum engineering. His research focus on reservoir characterization, naturally fractured reservoir, unconventional resources, smart oilfield technologies, well testing and improved recovery processes.

Professor Ershaghi has received many awards, including 1983 SPE Distinguished Achievement Award, 2010 SPE John Franklin Carl Award, SPE WNAR Distinguished Service Award, Technology Transfer Award, WNAR Reservoir Description and Dynamics Award, and the Outstanding Educator Awards. He served as an SPE Distinguished Lecturer during 2006-2007.

Again, Professor Ershaghi, congratulations and we are very proud of you.

## USC SPE STUDENT CHAPTER NEWS

The USC SPE Chapter would like to congratulate Dr. Steve Cheung on his appointment as Chairman of the LA Basin SPE section. Congratulations Mr. Chairman, we look forward to working with you.

Generous Donations to USC SPE student Chapter:

LA Basin SPE donates \$3000 to USC SPE student chapter to partial fund 10 students travelling to Texas for the ATCE conference.

San Joaquin Valley SPE basin donate \$5000 to provide partial funding to USC students attending the ATCE conference

SPE Student Chapter Activities:



Ms. Devon Shay, of Signal Hill Petroleum, is USC SPE liaison with the LA Basin SPE, speaks at USC SPE chapter meeting in September and pledges support.

USC SPE Student Chapter met with Ms. Cynthia Murphy, Competency Development Manager at Chevron. As a main sponsor of USC SPE chapter, Ms. Murphy met with the officers of USC SPE chapter as well as officers of other student organizations to discuss how to improve partnership between Chevron and the various student organizations. Chevron also made a financial donation to the chapters.



## USC SPE STUDENT CHAPTER NEWS - CONTINUES



USC SPE Student chapter hosted an informal internship information session to give members an understanding of what to expect from an internship, how to secure internships and how to succeed at internships. Speakers included students who interned for various companies (OXY, Chevron, Aera, BOEM, and International companies).

Robert Cannon (interned with Chevron, Bakersfield), Kay Lutostanski (Interned with OXY, Long Beach) and Michael Olwin (interned with Chevron, Houston) share their experiences

USC SPE student chapter held a resume info session. Sponsored by Aera Energy with the participation of Signal Hill Petroleum, the session was to give students an insight into crafting resumes and succeeding at interviews.

Ms. Jovy Kroh (Signal Hill Petroleum), Mr. Andy De La Rossa (Signal Hill Petroleum) and Ms. Erin Daniel (Aera Energy) share their knowledge with USC SPE Student chapter



Some USC SPE chapter members at the resume info session

## USC SPE STUDENT CHAPTER NEWS - CONTINUES



Ms. Daniel critiquing resume's of USC SPE chapter

Ms. Kroh and Mr. De La Rosa critiquing and advising USC SPE Chapter members



USC SPE Student chapter is making arrangements to tour OXY's THUMS Island. Mr. Uduak Ntuk has graciously accepted to give USC SPE Student chapter members a tour of THUMS Island. Details for this are currently in process.



# Orange County Engineering Council

Presents

## LEADERS' LUNCHEON 2012

*We and OCEC...building a better tomorrow*

Wednesday, October 17, 2012  
11:30 am to 1:15 pm  
UCI University Club, Library  
801 East Peltason Drive  
Irvine, CA 92697-5625  
Tel : (949) 824-7960  
Parking is free.

Panel Theme:  
**ADVANCING ENGINEERING IN  
ORANGE COUNTY**



Moderator: Dr. Peter R. Kurzhals, CM  
OCEC Past President, Member of Academy of  
Engineering Excellence

**PANELISTS :**

Paul J. Geery, Vice President and Program Manager, The Boeing Company  
Matt Ulukaya, Vice President, AECOM  
Joshua Nelson, Past President, American Society of Civil Engineers, OC Branch  
Mike Utt, Past Chair, Society of Petroleum Engineers, LA Basin  
Dr. Forouzan Golshani, Dean of Engineering, California State University, Long Beach  
Engineering Student

The 2012 OCEC Leaders' Luncheon will focus on potential approaches for advancing engineering in Orange County. A distinguished panel of leaders from local corporations, professional societies and universities will address possible initiatives that would strengthen OC engineering capability and talent. They will talk about associated teaming approaches among companies, universities and professional societies which would enhance these initiatives and will suggest avenues for obtaining the necessary resources (funding and manpower) for the successful accomplishment of these objectives. Each panel member will provide his top two priorities and associated rationale for each of these three critical elements to introduce the theme. *A Q&A session will follow, during which the audience will provide their comments and suggestions, ask questions to the panel, and also introduce their own proposals for advancing engineering in OC.* Results of the Leadership Luncheon will be documented in an OCEC Position Paper, which will be distributed to all Leaders' Luncheon participants and to the OCEC membership and interested parties ([www.ocec.org](http://www.ocec.org)).

OCEC will host one complimentary luncheon for an officer/representative from your company, professional society or academic institution. RSVP by 10/5/2012 by sending an email to Phil Ridout, OCEC Treasurer, at [pridout@socal.rr.com](mailto:pridout@socal.rr.com) with your name, title, affiliation and phone. If you choose to bring a guest, please include the guest's name in your email; and mail a completed registration form and a check (\$20/participant, made payable to OCEC) to Phil Ridout, 6962 Los Amigos Circle, Huntington Beach, CA 92647. Only registered invitees and their paid guests will be admitted to this special Leaders' Luncheon event. OCEC Website: [www.ocec.org](http://www.ocec.org).

### Program Agenda

11:30 am President's Welcome  
11:30 pm Buffet Lunch  
11:50 pm Panel Discussion  
12:40pm Q&A  
1:15 pm Adjournment

Name:  
Affiliation:  
Phone:  
Email:  
Meal Cost: \$20.00  
No. of Meals:

**SPE WESTERN REGIONAL  
& AAPG PACIFIC SECTION MEETING  
2013 JOINT TECHNICAL CONFERENCE**

April 19 - 25, 2013 at Monterey, California

The SPE Western Regional Meeting is one of the society's oldest and leading technical events. It is a general interest meeting with papers on a wide variety of topics. The theme of the 2013 conference is "*Energy and Environment Working Together for the Future.*" The meeting will be held jointly with the Pacific Section of the American Association of Petroleum Geologists (AAPG) 2013 convention to offer a greater opportunity of networking and learning from professionals in both Earth Sciences and Petroleum Engineering.

Presentations will be organized into technical sessions with topical themes. Qualified poster papers require a full manuscript and will also be included in the proceedings.

The committee members look forward to your proposals and to seeing you in the beautiful city of Monterey.

**Proposal submission deadline:**

29 October 2012

Click [here](#) for the proposal submission form.

**Venue**

[Portola Hotel & Spa at Monterey Bay](#)

Two Portola Plaza,

Monterey, CA 93940

Reservations: 888-222-5851

Preferential rates will be available.

Think you can help?

Volunteers are especially needed in the following committees:

Registration  
Exhibit and Sponsorship  
Young Professionals

...and more!

[Contact the chairs for more information.](#)

**PTTC SERIES**

**“MORE - 2012 “**

**MAXIMIZING OIL RECOVERY ECONOMICALLY**

October 31st, Queen Mary Hotel, Long Beach

PTTC and The Energy Forum present MORE 2012 in Long Beach, CA on October 31, 2012. The Forum is being held on the Queen Mary, so book your rooms early for a fun and educational experience. The focus of the conference will be on Enhanced Oil Recovery with information on Unconventional Plays, Tight Oil Plays and Liquid Rich Traditional & Shale Plays. Topics include:

- EOR Technologies Making a Positive and Economical Difference
- Learn how EOR is being applied to these plays now and what is coming.
- With more producers in a secondary mode and changing some of the Horizontal Producers into Horizontal Injectors - Shale compatible EOR cannot be far away.
- EOR & Unconventionals: Field Experience & Current Research / Theory.
- Commercializing the ROZ (Residual Oil Zone) and its tremendous potential.
- Cost Effective EOR technologies already being utilized in a number of growing plays.
- Utilizing EOR technologies with Emerging Unconventional plays --- the future looks bright!
- Improving fracture spacing along a horizontal lateral and stage design by combining microseismic results with bottom hole treatment
- Special Interest for California: Bob Zahner from Venoco will discuss the Monterey Shale play.

Registration Fees While Space is Available: \$395.00 per person prior to the early bird deadline of October 22nd - \$495.00 after the early bird date. -- NOTE: Group Discount fee is only \$345.00 per person if two or more people register at the same time. Fee includes Admittance to the meeting, Continental Breakfast, Luncheon Buffett & Break Hors D'oeuvres & Refreshments + Access to presentations posted on meeting website post event. For more info please see the meeting website.

[http://www.theenergyforum.com/more\\_2012/agenda.pdf](http://www.theenergyforum.com/more_2012/agenda.pdf)



**PETROLEUM TECHNOLOGY TRANSFER COUNCIL**

**OPEN HOLE LOGGING & BASE OF FRESH WATER DETERMINATION**

Long Beach: November 7, 2012, The Grand, 4101 E. Willow Street

This course is for those who are interested in learning how to read and do simple interpretations with basic open hole wireline logs. Emphasis will be on older logs that are common in mature California basins. The types of logs covered are resistivity, spontaneous potential (SP), sonic, gamma, density and neutron. Interpretations will include:

Recognizing the presence of gas, oil and salt water  
Determining porosity values and lithology  
Using quick look analysis to identify potential producing zones Determination of Base of Fresh Water  
Estimating water/oil saturation using a simple Archie Equation  
Short exercises will be included as part of the course so be sure to bring a calculator (non-solar recommended) that does exponents (for Archie's Equation)

**Course Outline**

7:30 a.m. Registration  
8 a.m. Workshop Presentation: Dr. Jan Gillespie  
Borehole environment and log header and scales Electrical logs-Resistivity and SP  
Radioactive logs-GR, Neutron, Density  
Water saturations using Archie's equation  
Base of Fresh Water Determination Final exercises  
3 p.m. Adjourn

**Registration and Payment**

The workshop fee of \$140 includes workshop, materials, refreshments, and lunch. Payment can be on this site using PayPal, or made by check to "PTTC", or you can contact us by phone with your Visa or MasterCard only.

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

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



**LASPE BOARD MEETING MINUTES**  
**BOARD OF DIRECTORS MEETING, SEPTEMBER 19, 2012**

**Attendance:**

Vanessa Perez, Sr. Past Section Chair

Dr. Eric Withjack, Section Chair

Serge Baghdikian, Board Member - 2014

Nazee Heda, Board Member - 2013

Robert Cannon, USC SPE Student Events Coordinator

Dr. Sam Sarem, WNAR Director

Rick Finken, Treasurer

Rachel Spitz, Secretary

Mark Ojo, USC SPE Student Chapter President

**Proceedings:**

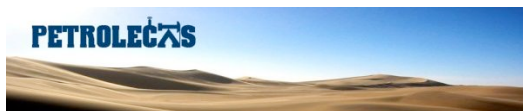
1. The meeting was called to order at 10:47 AM. A quorum was met, Dr. Steve Cheung and Baldev Gill provided proxies.
2. Nazee Heda moved that the proposed agenda be approved. Vanessa Perez seconded the motion. All approved
3. Vanessa Perez moved that the minutes of the meeting held June 12, 2012, as published in the LASPE Newsletter, be approved. Nazee Heda seconded the motion. All approved.
4. Reports:
  - 4.1. Treasurer's Report – Rick Finken: \$3,500 was added to the scholarship funding approved at the May 2012 Board meeting and the \$500 donation for the Los Angeles County Science Fair approved by email in May. For August 2012, there were no expenses. Ad income and interest income totaled \$194. The total value of LASPE's assets was \$77,186 as of August 31, 2012. For the 2011-2012 Program Year through August, income has exceeded expenses by \$6,894. \$1,000 will be given to YP for their summer event. The YP have done a good job of receiving donations throughout the year. The Bakersfield section will be giving the L.A. Basin section a donation from the WRM income.
  - 4.2. Board Selection Committee Report – Vanessa Perez: The committee members are Vanessa Perez, Rick Finken, Dr. Sam Sarem, Dr. Steve Cheung, Mike Utt, and Eric Withjack. Eric Withjack moved to vote in two new board of directors. Vanessa Perez seconded the motion. Dr. Ted Frankiewicz and Jaime Villatoro were voted in as board of directors through 2015. This was Dr. Eric Withjack's last meeting as Section Chair. Dr. Steve Cheung has moved into the position of Section Chair, Baldev Gill moved into the position of Section Vice-Chair and his Board Membership has been extended. Christian Vaccese is the new Secretary. Nazee Heda will be next year's Scholarship Chair. Leila Vlasko will continue on as Forum Chair assisted by Uduak Ntuk.
5. Old Business:
  - 5.1 WNAR Update – Eric Withjack and Sam Sarem: Tom Walsh of the Alaska Section has been elected as the new WNAR Director. Dr. Sarem was thankful for his three years of service as the former WNAR Director. The San Joaquin Section received the President's Award for the 2011-2012 program year. The 2013 Western Regional Meeting will be held in Monterey. They will need assistance and volunteers.
6. New Business:
  - 6.1. USC ATCE Support – Mark Ojo and Robert Cannon (USC SPE Student Chapter representatives): The USC Chapter asked for support for students to attend the ATCE in San Antonio, TX this year. The L.A. Basin Section budgeted for \$3000 in donations. The students have offered to volunteer where needed to help offset the donations.
7. The meeting was adjourned at 11:39 AM.

## SERVICES OFFERED

### PETROLECTS WELL TESTING AND DATA INTERPRETATION SERVICES

#### SERVICES PROVIDED:

- ❖ Data plotting
- ❖ Data analysis and interpretation
- ❖ Technical reports



#### APPLICATIONS:

- ❖ Injection, fall-off, and production well testing
  - Water injection and water disposal
  - Steam injection
  - Gas injection
  - Production from fractured reservoirs

Petrolects LLC (805) 543-1010 San Luis Obispo, CA [welltesting@petrolects.com](mailto:welltesting@petrolects.com)

#### **DAVID B. DEL MAR**

#### **Consulting Petroleum Geologist**

**California Registered Geologist #634**

**Development - Thermal EOR - Property Reviews**

**2027 Park Drive, Los Angeles, CA 90026**

**C (323) 219-3804 H (323) 664-3358**

[dbdelmar@gmail.com](mailto:dbdelmar@gmail.com)

Please notify SPE Headquarters directly with change of address: P.O. Box 833836, Richardson, TX 75083 Tel: (800) 456-6863 Fax: (972) 952-9435 or go to <http://www.spe.org/mbrservices/index.cfm> We appreciate your feedback. Send your comments/suggestions/contributions to Larry Gilpin, Editor: [larry@4thforge.com](mailto:larry@4thforge.com)

## LASPE OFFICERS & BOARD

<b>Name</b>	<b>Position</b>	<b>E-mail</b>
Mike Utt	Senior Past Chair	<a href="mailto:mikeutt@roadrunner.com">mikeutt@roadrunner.com</a>
Dr. Eric Withjack	Junior Past Chair	<a href="mailto:dremmw@yahoo.com">dremmw@yahoo.com</a>
Dr. Steve Cheung	Chair	<a href="mailto:steveior@yahoo.com">steveior@yahoo.com</a>
Baldev Gill	Vice Chair	<a href="mailto:baldev.gill@longbeach.gov">baldev.gill@longbeach.gov</a>
Nazee Heda	Board Member through 2013	<a href="mailto:Nazee.Heda@slc.ca.gov">Nazee.Heda@slc.ca.gov</a>
Dr. Serge Baghdikian	Board Member through 2014	<a href="mailto:serge.baghdikian@longbeach.gov">serge.baghdikian@longbeach.gov</a>
Adi Varma	Board Member through 2014	<a href="mailto:aditya_varma@oxy.com">aditya_varma@oxy.com</a>
Dr. Ted Frankiewicz	Board Member through 2015	<a href="mailto:tfrankiewicz@specs-services.com">tfrankiewicz@specs-services.com</a>
Jaime Villatoro	Board Member through 2015	<a href="mailto:jaime_villatoro@oxy.com">jaime_villatoro@oxy.com</a>
Christian Vaccese	Secretary	<a href="mailto:c.vaccese@gmail.com">c.vaccese@gmail.com</a>
Rick Finken	Treasurer	<a href="mailto:rdfinken@gmail.com">rdfinken@gmail.com</a>
Robert Visser	Assistant Treasurer	<a href="mailto:rcvbelmar@aol.com">rcvbelmar@aol.com</a>
<b>SPE Contacts</b>		
Sam Sarem, Ph.D	WNAR Director (outgoing)	<a href="mailto:sam4iprc@aol.com">sam4iprc@aol.com</a>
Tom Walsh	WNAR Director (incoming as of 10-9)	<a href="mailto:twalsh@petroak.com">twalsh@petroak.com</a>
SPE Contacts for Sections		<a href="mailto:Sections@SPE.org">Sections@SPE.org</a>
Telephone numbers available on request. E-mail the Secretary, Christian Vaccese at <a href="mailto:c.vaccese@gmail.com">c.vaccese@gmail.com</a>		