



## Los Angeles Basin Section Society of Petroleum Engineers

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

### A Message from the Chair



#### Benefits of SPE Membership

Happy New Year to all of our Members!

We have just concluded a successful 2014 and are now looking forward (sort of?) to a challenging 2015 as low oil prices force spending cutbacks by the companies that either employ or do business with our members. It is times like this that your SPE Membership can be of the most value, so we

sincerely hope you have already renewed your membership for 2015. Benefits of SPE membership include:

- Low cost monthly forum meetings which are informative and offer networking opportunities
- OnePetro and PetroWiki which provide access to a wealth of information and experiences which may assist you in your job performance
- The Distinguished Lecturer Program which brings internationally recognized subject matter experts to our locale
- Journals such as the Journal of Petroleum Technology (JPT) which provide a status window for our industry and the technological advances which drive our industry and secure our future
- This Monthly LA Basin SPE Section Newsletter which keeps you informed of local activities and networking opportunities

One of the challenges at the heart of our section is maintaining a suite of speakers at our monthly forum which is of interest to our membership. To this end, Robert Schaaf, a Board member for the LA Basin Section, has accepted the position of Program Chairperson and he has already

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#### PETROLEUM TECHNOLOGY FORUM, TUESDAY JANUARY 13TH

The next Petroleum Technology Forum is "Petroleum Resources of California with and without Hydraulic Fracturing" by Don Gautier on January 13th. *Details follow on page 3 ...*

<u>Location:</u> Long Beach Petroleum Club 3636 Linden Avenue Long Beach, CA 90807	<u>Time:</u> Registration: 11:30 AM Buffet Lunch: 11:30 AM Presentation: 12:00-1:00 PM	<u>Cost:</u> \$25.00 members, \$30.00 non-members, Free for 1st 4 students, others \$5 each
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Message from the Chair...*continued from page 1*

lined up two great speakers for us (Don Gautier, USGS, in January and Dr. Rick Behl in February). Thanks to Robert!

We also are pleased to announce that Uduak Ntuk has assumed the position of Student Chapter Liaison. This is another critical position for the Section and Uduak will provide the ever critical communication link between the Section and our affiliated Student Chapters.

This newsletter includes an article by Section member Eric Withjack which relates the highlights of the 2014 Society of Core Analysts Meeting. We would like to have more of this type of article in our newsletter since we are all individually limited in the number of professional meetings we can attend.

A monthly feature in JPT is Technology Focus. Each month JPT surveys the "state of technology" for 3 or 4 discipline specific topics. For the December 2014 issue, it was my task to evaluate 174 abstracts pertaining to Production and Facilities, write the "State of Technology Summary", and select the 3 significant papers reprinted in synopsis form. See p. 100 in the December 2014 issue of JPT.

Each year, the Section requests visits by 3 SPE Distinguished Lecturers. The list of the 2015-2016 DL's can be accessed at the link below. We would like your input on who you would like to hear lecture at our section. We will also attempt to coordinate with the other four California Sections so that we have a better chance for getting the lecturers that our membership wants to hear.

<http://www.spe.org/news/article/spe-unveils-distinguished-lecturers-for-2015-2016>

Finally, PetroWiki is an online version of the SPE Petroleum Engineering Handbook. If you want to know something about a specific topic – this is a great place to start. OnePetro is a library of SPE and SPE-related papers that were either published in journals or presented at conferences related to oil & gas technology. Literally, the knowledge base of our industry is contained within these papers.

Sincerely,  
Ted Frankiewicz  
SPE LA Basin Section Chair 2014-2015

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**LASPE Website**

[connect.spe.org/  
LosAngelesBasin/Home](http://connect.spe.org/LosAngelesBasin/Home)

## SPE Western Regional Meeting

27-30 April 2015  
Anaheim, California, USA



FORUM FROM PAGE 1 . . .

## PETROLEUM TECHNOLOGY FORUM

TUESDAY JANUARY 13TH

### **Petroleum Resources of California with and without Hydraulic Fracturing**

by Don Gautier, PhD, Consulting Petroleum Geologist, DonGautier LLC

#### **Abstract**

The rich petroleum resources of California have been exploited since prehistoric times and have been produced commercially for 150 years. Although hydraulic fracturing has been employed since the 1950s, with the exception of diatomite reservoirs, it has not been an especially widespread practice in California. In spite of intensive development, large volumes of oil remain to be recovered. These resources include: (1) billions of barrels of undiscovered and/or undeveloped conventional accumulations, especially in Federal waters, where hydraulic fracturing is incidental to rather than essential for production, and (2) potential growth of reserves from further development of existing oil fields, especially in the San Joaquin and Los Angeles basins, where the USGS has estimated that from 4 to 15.6 billion barrels of additional oil might be recoverable with existing technology from just 19 giant oil fields. Some of this future reserve growth could come from further development of oil in diatomite reservoirs in which intensive hydraulic fracturing is necessary for sustained production. In addition, unconventional oil resources in source-rock systems (shale oil) have been postulated to exist in the parts of the Los Angeles, Salinas, San Joaquin, Santa Maria, and Ventura basins, where Monterey-equivalent and other source rocks are currently deeply buried and in the "oil window". If these unconventional resources exist and can be feasibly developed, they would probably require extensive application of advanced well stimulation technology such as hydraulic fracturing.

#### **Biography**

With a career spanning almost four decades, Dr. Donald L. Gautier is an internationally recognized leader and author in the theory and practice of petroleum resource analysis. As a principal architect of modern USGS assessment methodology, Gautier's accomplishments include leadership of the first comprehensive evaluation of undiscovered oil and gas resources north of the Arctic Circle, the first national assessment of United States petroleum resources to be fully documented in a digital environment, and the first development of performance-based methodology for assessment of unconventional petroleum resources such as shale gas or light, tight oil. He was lead scientist for the San Joaquin Basin and Los Angeles Basin Resource Assessment projects. His recent work has focused on the analysis of growth of reserves in existing fields and on the development of probabilistic resource/cost functions. Gautier is the author of more than 200 technical publications, most of which concern the evaluation of undiscovered and undeveloped petroleum resources. He holds a Ph.D. in geology from the University of Colorado.



## SPE Western Regional Meeting

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27-30 April 2015  
Anaheim, California, USA



The 2015 Western Regional Meeting, will be held April 27 – 30, 2015 in beautiful Anaheim, California at the Hyatt Regency Orange County (near Disneyland Anaheim). This conference will serve oil and gas professionals and others who work in the unique setting of challenging reservoirs and environmental constraints. The conference objective is to exchange ideas, and collaborate on the challenges, opportunities, and solutions for successful operations.

Link to WRM page, <http://connect.spe.org/LosAngelesBasin/western-regional-meeting-2015>, with details on papers, short courses , exhibiting and sponsorships.

The comprehensive program will include a collection of technical sessions, training courses, and a vendor exhibition. Topics include:

- Drilling and Completions
- Health, Safety, Security, Environment
- Production and Operations
- Projects, Facilities, and Construction
- Reservoir Description and Dynamics
- Digital Oil Field Programs

Meeting Location:

Hyatt Regency Royal Hall CDEF Layout  
For Exhibit Booth and Sponsorship Information  
contact Brian Tran at [Brian.Tran@bakerhughes.com](mailto:Brian.Tran@bakerhughes.com)

Hotel Website and Address:

<http://orangecounty.hyatt.com/en/hotel/home.html>  
Hyatt Regency Orange County  
11999 Harbor Blvd  
Garden Grove, CA 92840, US

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### YP Networking Event Report

We had 35 attendees at our final 2014 networking event on Dec. 4<sup>th</sup> at Beachwood BBQ in Long Beach. We would like to thank the sponsors: Jason Mondorf from Reed Bits, D'Arcy Quinn from Scientific Drilling and Zach Birks from Smith Bits.

Brian Tran



**PHOTOS FROM DECEMBER 10TH  
PETROLEUM TECHNOLOGY FORUM**

**Perforating With Lasers: Are You Ready for the Power of Light?**

by Brian C. Gahan, President of Laser Rock Technologies





## 2015 LASPE Community Outreach Program We NEED Volunteers, Please Join Us!

**MARK YOUR CALENDARS** and join us as we partner with the California Mathematics, Engineering, Science Achievement (MESA) Program at their MESA Day Competitions for over 1,400 High School and Middle School students and 50 teachers. MESA is a UC-based organization and the largest state STEM program that serves over 28,000 educationally-disadvantaged students in grades K-16. Their mission is for students to achieve UC/CSU eligibility, and graduate with four-year degrees in science, engineering and math majors.

**Take part in one of the largest outreach programs in our industry!** Volunteers will judge student projects and competitions, make presentations about engineering, geology and our industry, and lead and demonstrate science and math-based games and experiments. **Come to one or all four MESA Days.**

**March 7** High School, CSU Long Beach School of Engineering

**March 14** Middle School, CSU Long Beach School of Engineering

**Top Three Students in each event go to Regional MESA Days Competitions between MESA Centers at USC, UCLA, CSULA, and CSULB**

**April 11** Regional Middle School, CSULA School of Engineering

**April 25** Regional High School, USC School of Engineering  
**DATE CHANGED from APR 18 to APR 25!**

**We invite you to Volunteer and/or be on our Planning Committee. Please contact Scott Hara at [scotthara@yahoo.com](mailto:scotthara@yahoo.com) or 626-482-6757 cell.**



## 60TH ANNUAL ORANGE COUNTY SCIENCE & ENGINEERING FAIR

### VOLUNTEER JUDGES NEEDED April 21 - 26, 2015

**Volunteers are needed to participate in the 59<sup>th</sup> Annual Orange County Science & Engineering Fair Special Awards Program.** The Fair will be held at the Orange County Fairground at 88 Fair Dr., Costa Mesa, CA 92626 on Tuesday, April 21 through Sunday, April 26, 2015. The judging day is Wednesday April 22, 2015.

On the Judging Day the exhibit hall (Huntington Beach Building) will open at 7:00 AM to preview the projects and log books. Students will be available in batches for oral presentations from 9:00 AM to 4:00 PM.

**WRITE UP:** The Society of Petroleum Engineers (SPE) is the preeminent technical professional society for petroleum and other engineering disciplines engaged in the exploration and production of oil and natural gas. SPE is a non-profit organization with over 50,000 members world-wide, 650 in the L.A. Basin Section. SPE is dedicated to the advancement of technology to develop our precious oil and gas natural resources for public benefit.

**PRIZE:** Two \$100 cash awards and certificates. 1 senior and 1 junior division.

**CRITERIA:** Outstanding technical achievement in projects relating to the development of oil and/or gas resources, mechanics, subsurface fluid flow, and production of those or other energy resources through wellbores. In addition, any projects of a technical nature, which may not be directly related to, but which could be applied to the advancement of the field of petroleum engineering research and/or development.

The Award Ceremony will be held at the Huntington Beach Building (the Fair Hall) on 26<sup>th</sup> April, 2015 from 12:00 p.m. to 5:00 p.m. You can view information about the Fair's rules and regulations as well as guidelines offered to students to help them prepare: [www.ocsef.org](http://www.ocsef.org).

An SPE representative will present the awards at the Award Ceremony. We will publish a special program brochure for everyone attending the Awards Ceremony.

If you or an SPE colleague can volunteer to judge on Wednesday, April 22, 2015 please contact Uduak Ntuk at [uduak.ntuk@longbeach.gov](mailto:uduak.ntuk@longbeach.gov) or call 562-570-3953.



## OCEC CALL FOR NOMINATIONS

Submittal Deadline January 16th, 2015

The Orange County Engineering Council (OCEC) is holding the Annual Honors and Awards Banquet on Saturday, February 28, 2015 at Double Tree Suites, Anaheim CA, and is accepting nominations for worthy engineers, scientists, volunteers, and projects from all engineering fields. Please inform appropriate people or complete the nomination forms from OCEC.org website, and submit to nomination@ocec.org or SteveIOR@yahoo.com before the deadline of January 16, 2015.

OCEC is an umbrella organization that spans engineering and scientific corporations, professional societies, individual consultants and educational institutions in Orange County, California and neighboring communities. In this role, OCEC annually recognizes some of Orange County's finest engineers, scientists and projects from local civil, commercial, electronic, energy, environmental, defense, education, and government engineering organizations.

Award Categories are:

- Outstanding Engineering Merit Awards
- Outstanding Engineering Educator Awards
- Outstanding STEM Service Awards
- Outstanding Young Engineer Awards
- Outstanding Engineering Student Awards
- Outstanding Engineering Service Awards
- Engineering Project Achievement Awards
- Outstanding STEM Program Award
- Outstanding Student Project Award (New)
- Plus Awards nominated and selected by the OCEC Board: Project of the Year Award, James E. Ballinger Engineer of the Year Award, and President's Award.

There are separate individual and project nomination forms, and also added is the new Outstanding Student Project category. You will find the forms on the OCEC.org web-site [http://www.ocec.org/3\\$Ab/index.html](http://www.ocec.org/3$Ab/index.html). Please fill out the form as completely and concisely as possible to ensure that each nominee is evaluated thoroughly and fairly, and send the form to nomination@ocec.org .

Information and photos on past events and additional details on the upcoming Award Banquet will be also posted on the OCEC Home page.

We urge you to send your nomination by January 16, 2015 and look forward to hearing from you.

If you have questions, please feel free to contact steveIOR@yahoo.com

## THE SOCIETY OF CORE ANALYSTS MEETING, 2014

Eric Withjack  
Former Senior Past Chair, LASPE  
US Director, SCA

In keeping with my past tradition, I openly share cross-society technology and information that I feel is beneficial to SPE membership and associates. As before, one of my most favorites stems from the annual symposium of the Society of Core Analysts (SCA). This year, the SCA meeting (Sept. 7 – 12, 2014) was in a university town, Avignon, located in a south provenance of France. The venue was the famed Pope's Palace (XI century), classified as a world heritage site and the heart of Christendom before the Seat moved to Rome (please see pictures below). Exploratory field trips were to unusual and interesting geological sites including the reappearance of a powerful underground river in a carbonate cavern, and massive ochre rock outcrops that once provided pigments for early paints and dyes.

The symposium included a short course and workshop on the first day, with technical sessions for the following three days. The short course was in three parts including capillary pressure measurement, a focus on carbonates, and finally a segment on digital rock analysis and modeling. The first segment was conducted by Doug Ruth, and covered the technology from fundamentals of capillary pressure measurements, to details of the mathematical analysis used in data reduction programs. The main thought on carbonate rock was that rock typing needs to be done and each rock type assigned a capillary pressure type curve. Digital rock analysis is emerging now as the building block of rock fabric models based on 3D ultra-high resolution CT scans.

The main emphasis of the workshop was core handling and damage prevention. Mike Gay (ExxonMobil) talked about damage mechanisms such as high weight on bit while drilling (fractures the core), laying down the core barrel without support, and slumping inside the barrel. The influence of stress relief (pulling out of the hole) was discussed by Rune Holt (Norway SINTEF), while Stefano Pruno (Weatherford) gave an overview of core handling at the well site. Jon Burger (Chevron) focused his discussion on preserving shale cores brought to the surface for lab analysis. He emphasized that the main point was to minimize exposure to air, and as a general rule, high NaCl or CaCl brine may help minimize swelling.

The formal technical program had papers, as well as posters, and all are openly available for free on the SCA website (<http://www.scaweb.org>). Since I am most interested in laboratory core analysis, I took special notice of details in associated technology which I will highlight here. For example, one paper (SCA2014-002) presented the cleaning/extraction of shale samples; the bottom line was that solvent extraction may remove organic matter not available for production and may result in 1 – 3 PU higher than actual. Paper SCA2014-008 dealt with measuring trapped gas by centrifugation and give some excellent reference data. An interesting twist on measuring saturations by x-ray CT and comparing them to simultaneous gravimetric measurements was presented in SCA2014-009. The application of NMR to investigate shale wettability was reported on in SCA2014-015, with particular

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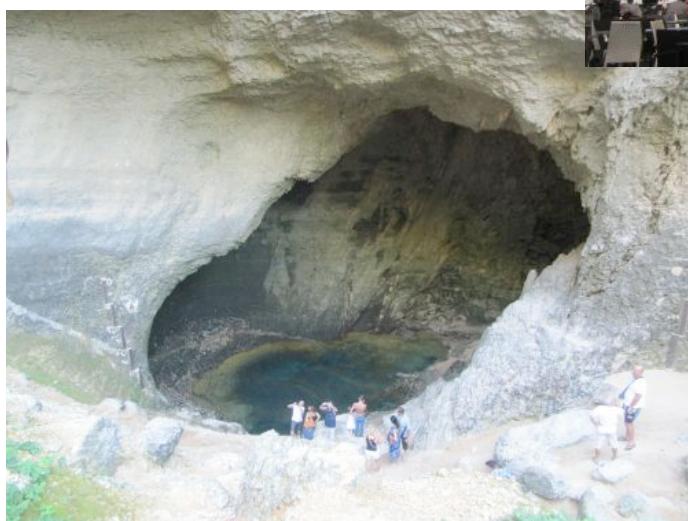
value given to example T<sub>2</sub> distributions. A suite of comparisons of steady state and unsteady-state relative permeability data sets for CO<sub>2</sub> tests were provided in paper SCA2014-019. Ultra high resolution CT scanning was used to illustrate displacement mechanisms of oil in pores spaces in papers SCA2014-022 and 025, and is the type of work that is the basis for improved understanding of oil recovery processes.

I have many handwritten notes, and if you have any questions please feel free to contact me as I would be glad to share more info with you. Hopefully the topics I discussed above spark your interest, and, of course, you are all invited to become a member of the SCA (visit website). I find it an excellent complement to my long-standing SPE membership and believe you will benefit from it as well!

**2014 Society of Core Analyst Venue,  
Popes' Palace, Avignon, France**



**Underground River Head,  
Fountain de Vaucluse**



**Ochre outcrops (the “Colorado  
Provencal”), Luberon**



## MEXICO ENERGY SUMMIT

January 27, 2015



LASPE member Dennis Luna is coordinating the Mexico Energy Summit through his law firm, Luna and Glushon. This one-day conference will be held January 27, 2015 at the Doubletree Hotel, downtown Los Angeles.

The Mexico Energy Summit will provide authoritative, in-depth information to better understand the dynamics and prospects of Mexico's emerging energy sector, which is opening up to outside investment. In this new era of energy reform, opportunities for U.S. companies include exploration and production, midstream and downstream activities, logistics and supply chain management, infrastructure development, financing and private equity. Mexico's leading energy experts will be available to discuss:

- Mexico's new energy vision and regulatory framework, including its energy strategy for 2015 and beyond
- Overview of Mexico's estimated \$13 trillion of oil and gas resources, including the latest government updates
- Trends in energy project financing and operational strategies
- Investment opportunities, including regulatory, legal and financial issues
- Access to capital
- Evaluation of Mexico's shale oil and gas potential, upstream sector challenges.

Companies and key executives participating in the Energy Summit will include those involved in exploration and production, services, supply chain, finance and investment, private equity firms, investment bankers, capital sources, engineering firms, midstream operators, land companies and service companies.

Cost of attendance is \$295. Registration can be made through the event's website: <http://www.caloilgas.com/mexicosummit/>

# SPE STUDENT CHAPTER NEWS

## UCI Student Chapter Report

### Welcome Week and General Meeting



On September 29th, SPE members participated in the Anteater Involvement Fair at UCI. This event took place in Aldrich Park, where clubs set up their booths to welcome new incoming students. This is a good opportunity to introduce and spread the word about SPE to interested students.



**October followed with the first general meetings.** During the meeting, the new members were educated about SPE in more detail along with the events and activities planned for the whole quarter. Both icebreakers and food helped get new and current members get acquainted.



## SPE STUDENT CHAPTER NEWS

### UCI Student Chapter Report *continues*

#### Meeting with Christian Lopez from Baker Hughes 10/23/2014

Christian Lopez is currently an account manager for Baker Hughes and he gave a presentation about his education and where he came from. He described his positions in each company that he worked for and his patents from working in an R&D lab. Christian also gave us the advantages of being a petroleum engineer and where the opportunities that his career has opened. Lastly he gave a short lesson on oil and gas economics and the challenge of well paths.



#### Jacobs Engineering Info Session 11/13/2014

Jacobs Engineering gave a general introduction of the company and the various services and projects they are involved in. Afterward, there was an open discussion, mainly sharing the speakers experience at the company and some tips for new graduates and how to transition.



**LASPE BOARD MEETING MINUTES  
BOARD OF DIRECTORS MEETING, NOVEMBER 12, 2014**

**Attendance:**

Ted Frankiewicz, Section Chair 2013-2014 and Board Member 2015 (Proxy)  
Eric Withjack, Former Senior Past Chair  
Baldev Gill, Junior Past Chair  
Christian Vaccese, Section Vice Chair through 2015 (Proxy)  
Brian Tran, Board Member through 2016  
Reza Rastegar, Program Chair and Board Member through 2015 (Proxy)  
Uduak Ntuk, Outreach Committee and Board Member through 2014 (Proxy)  
Robert Schaaf, Board Member through 2016  
Ali Khan, Treasurer and Board Member through 2015 (Proxy)  
Scott Hara, Outreach Committee (Proxy)

**Committee Members and Affiliates:**

Steve Cheung, Senior Past Chair OCEC Liaison  
Mike Utt, Former Senior Past Section Chair  
Rick Finken, Past Treasurer  
Vanessa Perez, Past Nomination Chair  
Jalal Torabzadeh, CSULB Student Chapter Advisor  
Sam Sarem, Chair, Membership and Awards Committees  
AB Gorashi Abdulrahman, Continuing Education Committee Chair  
Stephanie Grace Arriola, CSULB Student Chapter  
NG Uyen, UCI Student Chapter  
Asim Sakour, UCI Student Chapter  
Soham Punjabi, USC Student Chapter  
Kim Geroge, CSULB Student Chapter Secretary  
Omone' Livingston, SPE Member Worley Parsons

**Proceedings:**

- Call to Order – 10:42 AM; quorum check
- Approval of this Agenda.
- Approval of the Minutes of the Meeting on **October 14, 2014**
  - i) Brian Tran moved to approve the October Minutes and Robert Schaaf seconded.  
Approved

*continued next page*

**LASPE BOARD MEETING MINUTES - *CONTINUED***  
**BOARD OF DIRECTORS MEETING, NOVEMBER 12, 2014**

- REPORTS:
  - i) Forum Speakers are needed for January & February 2015
  - ii) Speaker Gift Budget have been discussed as well as Gift Selection – especially for DLs
- Scholarship Committee – Brian Tran, no particular or relevant report and activities have been shared
- YP Activities – Brian
  - i) Last Event on December 4<sup>th</sup> (Thursday) at Beach Wood BBQ starting at 5:30pm (approximately 35 ppl attending)
- Orange County Engineering Council (OCEC) – No Report
- Student Chapters
  - Chapter Budgets and Funds Requests -- Please Submit for Section Budgeting
  - Membership and officers status
    - i) USC- All officers have been established. On November 10, the last meeting was held with Dean Yortsos and Dr. Ershaghi speaking and presenting awards to our members. We will be planning our upcoming semester as well as planning for WRM. Needs to resubmit budget for funding from LASPE.
    - ii) UCI- New board has been elected and needs to submit budget for funding from LASPE
  - New Student Reps
- WNAR Meeting Status Report
  - Paper Submissions
  - We have over 277 paper submissions for the conference
  - Exhibitors and Sponsors: Reza Rastegar and colleagues are working to secure Exhibitors and Sponsors
  - Registrations and Money Handling
    - i) Larry Gilpin and the WRM Conference Chairs are trying to establish the best way forward for money handling and registration
    - ii) The Hotel venue for the conference has been secured and contract signed
    - iii) There will be 6 Short Courses offered at the 2015 WRM
    - iv) There will be a panel discussion for the Oil Industry and Regulatory Industry.
    - v) The 2015 SPE President will talk as the key Note speaker.
- Contracts Pending?
- Old Business:
  - Replacement for Devon Shay as Student Chapter Liaison
    - i) Will be searching for a replacement
  - Projector – Should Section have its own equipment??

**LASPE BOARD MEETING MINUTES - *CONTINUED***  
**BOARD OF DIRECTORS MEETING, NOVEMBER 12, 2014**

- i) Defer until next meeting (December)
- Section Budget Development for 2014-15
  - i) Student Chapter Budget submissions – requests for Section support
    - (1) Yearly Budgets updated with included Names and Contact information for all E-Board Members
- New Business:
  - December meeting location has to be discussed, the meeting will be held on Wednesday December 10<sup>th</sup>
    - ii) More information will be updated
    - iii) Finals for Students
  - Invoice Approval for Larry Gilpin who spent extra time modifying the LA SPE website due to unannounced changes by SPEI
    - i) Defer to December meeting
  - Distinguished Lecturer Requests for 2015-2016 coming in December
    - i) Email To Ted to Distribute to Board of Directors
- Other Items of Immediate Interest not Previously Discussed
- Adjournment

The meeting was adjourned at 11.09 am (Pacific Time Zone).

Respectfully submitted,

Christian Vaccese  
LASPE Secretary and Vice Chair

## **SELECTED SPE UPCOMING EVENTS - 2015**

Date	Title
January 13*	Petroleum Resources of California with and without Hydraulic Fracturing by Don Gautier, Consulting Petroleum Geologist, DonGautier LLC
February 10*	Monterey Formation by Richard Behl, Professor, Geological Sciences, Director MARS Project: Monterey and Related Sediments, CSULB
March 9	Next-Generation of Energy Efficient, Low Water Usage Heavy Oil Recovery Methods by Jala Abedi, University of Calgary
April 27-30, 2015	2015 WRM, Western Regional Meeting, Anaheim, California <a href="http://connect.spe.org/LosAngelesBasin/western-regional-meeting-2015">http://connect.spe.org/LosAngelesBasin/western-regional-meeting-2015</a>
	<b>Note: * LASPE Board meeting starts at 10:30 a.m. and all members are welcome to observe</b>

## **DEADLINES FOR NEWSLETTER ARTICLE SUBMISSION**

Month	1st Submission Call	Last Submission Call	No Submissions Accepted After	Newsletter Publish Date
February	1/19/15	1/26/15	1/30/15	2/2/15
March	2/16/15	2/23/15	2/27/15	3/2/15
April	3/15/15	3/23/15	3/29/15	4/1/15
May	4/13/15	4/20/15	4/28/15	5/1/15
June	5/18/15	5/25/15	5/29/15	6/1/15

## SERVICES OFFERED

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**2014-2015 LASPE OFFICERS & BOARD**

Name	Position	E-mail
Dr. Steve Cheung	Senior Past chair	<a href="mailto:steveior@yahoo.com">steveior@yahoo.com</a>
Baldev Gill	Junior Past Chair	<a href="mailto:Baldev.Gill@longbeach.gov">Baldev.Gill@longbeach.gov</a>
Dr. Ted Frankiewicz	LASPE Chairperson 2014-2015	<a href="mailto:tfrankiewicz@specservices.com">tfrankiewicz@specservices.com</a>
Christian Vaccese	Vice Chair - Board member through 2015	<a href="mailto:c.vaccese@gmail.com">c.vaccese@gmail.com</a>
Ali Khan	Treasurer through 2015	<a href="mailto:akhan@conservation.ca.gov">akhan@conservation.ca.gov</a>
Rick Finken	Vice-Treasurer	<a href="mailto:rdfinken@gmail.com">rdfinken@gmail.com</a>
Christian Vaccese	Secretary - Board member through 2015	<a href="mailto:c.vaccese@gmail.com">c.vaccese@gmail.com</a>
Robert Schaaf	Board member through 2016	<a href="mailto:robert_schaaf@oxy.com">robert_schaaf@oxy.com</a>
Uduak Ntuk	Board member through 2014	<a href="mailto:uduak.ntuk@longbeach.gov">uduak.ntuk@longbeach.gov</a>
Brian Tran	Board member through 2016	<a href="mailto:Brian.Tran@Bakerhughes.com">Brian.Tran@Bakerhughes.com</a>
<hr/>		
<b>Committee Chairs</b>		
Robert Schaaf	Awards	<a href="mailto:robert_schaaf@oxy.com">robert_schaaf@oxy.com</a>
Robert Schaaf	Forum and Program Chair	<a href="mailto:robert_schaaf@oxy.com">robert_schaaf@oxy.com</a>
Rich Manuel	Golf	<a href="mailto:rmanuel@mindspring.com">rmanuel@mindspring.com</a>
Uduak Ntuk	Community Outreach/STEM	<a href="mailto:uduak.ntuk@longbeach.gov">uduak.ntuk@longbeach.gov</a>
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