DECEMBER 3, 2018 LASPE NEWSLETTER

Los Angeles Basin Section
Society of Petroleum Engineers
Recipient of the SPE President's Section Award for Excellence & a SPE Gold Standard Section

A Message from the Chair

Highlights of 2018 - LASPE members
OCEC awards, WRM hosted and member awards, a very successful Charity Golf Tournament and great presentations by Distinguished Lecturers.

Dear Friends and Members of SPE,

This is our last newsletter for 2018. It has been quite a year for the Los Angeles Basin SPE. In February, we were honored by the Orange County Engineering Council with four LASPE members and two USC SPE members receiving awards. Dr. Iraj Ershaghi of USC was chosen for the James E. Ballinger Engineer of the Year Award. Scott McGurk and Steve Shryock were chosen for the Outstanding Engineering Merit Award. JR Smoyer was awarded the Outstanding Young Engineer Award. Kyler Correia and Ahmed Mohamed from USC each received the Outstanding Engineering Student Award.

In April we hosted the SPE Western Regional Meeting. Dr. Ted Frankiewicz and Baldev Gill led the fantastic committee that handled all the arrangements. The Meeting was a huge success. During the Meeting, former LASPE Vice Chair Brian Tran, was honored with the SPE Regional Service Award, and LASPE Treasurer Francois Florence was chosen for the SPE Regional Drilling Engineer Award. In addition, Dr. Donald Paul of USC received the SPE Regional Health, Safety, Security, Environment, and Social Responsibility Award.

Our Annual Charity Golf Tournament, also in April, was a huge success, selling out again with everyone having a great time. Ryan Kwong and

PETROLEUM TECHNOLOGY LUNCHEON TUESDAY DECEMBER 11TH
The next Petroleum Technology Luncheon: “Stop, Drop and Circulate” with Charles Pope of Complete Shale, a Distinguished Lecturer

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<tr>
<th>Location:</th>
<th>Time:</th>
<th>Cost:</th>
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<tr>
<td>Long Beach Petroleum Club</td>
<td>Registration: 11:00 AM</td>
<td>$30.00 members (+$1 CC fee)</td>
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<tr>
<td>3636 Linden Avenue</td>
<td>Buffet Lunch: 11:30 AM</td>
<td>$30.00 non-members (+$1 CC fee)</td>
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<tr>
<td>Long Beach, CA 90807</td>
<td>Presentation: 12:00-1:00 PM</td>
<td>Students $10 each</td>
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Message from the Chair continues...

JR Smoyer led the golf committee this year that was able to put on a wonderful event.

We also had a group of interesting and diverse speakers at our Monthly Luncheons. This included three Distinguished Lecturers. In December we will have a fourth SPE Distinguished Lecturer for 2018. Charles Pope of Complete Shale will be speaking at our December 11th Luncheon that kicks off at 11:30 AM at the Long Beach Petroleum Club.

His talk is titled “Stop, Drop and Circulate, an Engineered Approach to Coiled Tubing Intervention in Horizontal Wells.” His talk will share how and where coiled tubing is used around the world. He will discuss historical practices and the issues associated with them. Charles will also discuss more modern techniques. It will be an interesting presentation.

Sincerely,

Robert Schaaf
SPE LA Basin Section Chair 2016-2018
rschaaf@socal.rr.com

MEET THE NEW LASPE SECRETARY

Please give a warm welcome to the new LASPE Secretary - Andrew López.

Andrew is a PE and works at SPEC Services, Inc. He will also be a Board Member through 2021. You can reach Andrew at alopez@specservices.com

Welcome Andrew.
Stop, Drop and Circulate, an Engineered Approach to Coiled Tubing Intervention in Horizontal Wells

presented by Charles Pope, of Complete Shale

-Distinguished Lecturer-

Abstract
In North America, the average cost of a coiled tubing intervention is $250,000. Experience shows that 30% of the wells will have cost overruns of more than $500,000. Additionally, 1 well in 16 has a stuck pipe event and consequently, the costs escalates to an average of $1.7 million per well.

This talk will share how and where coiled tubing is used around the world. Historical practices are reviewed and the issues associated with them.

Also, the need for engineering involvement to improve the coiled tubing intervention will be . This includes a road map for expected drag, detailed time modeling, fluid system planning and data capture. Planned short trips have been eliminated. Low viscosity fluids are used to provide superior hole cleaning. When overpull is observed, operators should stop pulling out of the hole, drop down, and circulate until the debris is removed.

This engineered solution has been performed on over 75 coiled tubing interventions. These procedural improvements reduced time on location by 50%, reduced cost by 50% and prevented any stuck pipe.

One take away: old, historical practices are not your friend in preventing stuck pipe. The solution: stop, drop and circulate.

Bio
Charles Pope is the founder of Complete Shale, an international consulting firm specializing in drilling and completing horizontal wells. Charles has spent more than 35 years working in the oilfield. He completed the first horizontal well in the Austin Chalk in the late 1980’s. Charles serves on the SPE ATCE Well Completions Committee and SPE Workshop: Application of Integrated Diagnostics for Unconventional Resource Development Committee. He has authored multiple technical papers. While working at Devon, he was the Completions Technology Supervisor, where he led a team focused on optimizing coiled tubing interventions. He has held various positions with Sun, XTO Energy and Pinnacle Technology. Charles formed Complete Shale 2008. He holds a Bachelor of Science in Petroleum Engineering from the University of Oklahoma. Charles will serve as a SPE Distinguished Lecturer for 2018-2019.
PHOTOS OF THE
PETROLEUM TECHNOLOGY LUNCHEON
NOV 13TH

Best Practices to Reduce Venting and Flaring with Economic Benefit

Jeff Voorhis, P.E., EMS-LA of HY-BON Engineering
INTRODUCTION TO NUMERICAL MODELING IN GEOTECHNICAL ENGINEERING WITH EMPHASIS ON FLAC MODELING

January 25-26, 2019 • Los Angeles, CA • 10 PDH Available • $1,500

Instructor: Dr. Siavash Zamiran, P.E., MEA, Inc.
Winner of the ASCE St. Louis Young Engineer Award for Professional Achievement

Topics covered in the workshop include:

- Introduction to Computation Geotechnics
- Commercial Geotechnical Programs
- Theoretical Considerations
- Principles of Numerical Modeling
- Numerical Modeling in FLAC

Recommended For:

- Civil Engineers
- Geotechnical Engineers
- Mining Engineers
- Petroleum Engineers
- Geological Engineers

For more information and registration, see
www.meacorporation.com/event/FLAC

Use code SPE for $200 off 2 day registration!
LASPE BOARD OF DIRECTORS NOMINATION ANNOUNCEMENT

The Los Angeles Basin Section of the Society of Petroleum Engineers (LASPE) is seeking nominees for open Board of Directors (BOD) positions.

If you would like to be considered for the position, please submit a brief biography emphasizing your previous involvement in and contribution to SPE. Other pertinent information are education, work experience, and petroleum industry related activities. Comments on your enthusiasm for performing volunteer activities, and availability and commitment for supporting LASPE would be welcomed.

Commitment for this position involves attending the monthly BOD meetings (10:30 to 11:30 a.m.) on the second Tuesday of each month. The meetings typically take place at the Long Beach Petroleum Club before the monthly technical talks. In addition, the BOD member may be asked to volunteer to be on LASPE committees and/or get involved in SPE regional committees.

You will be expected to familiarize yourself with SPE operations using www.spe.org as a guide, and the LASPE bylaws found at http://connect.spe.org/losangelesbasin/aboutus/laspebylaws. You will help run the local section and represent the local members in the regional and national SPE affairs.

LASPE is looking forward to receiving your biography and any other pertinent information you feel will assist in evaluating your candidacy to become a BOD. Please submit your nomination document to Robert Schaaf (pro-tem Nomination Committee Chair) at rschaaf@socal.rr.com.

If you have questions, please contact Robert Schaaf at rschaaf@socal.rr.com.

On behalf of the 2018-2019 LASPE Nomination Committee
**SPE STUDENT CHAPTER REPORTS**

**CSULB Student Chapter News**

On November 2nd, CSULB SPE hosted a trip to one of the THUMS Islands (Island White), one of the four artificial islands in Long Beach built in 1965 for tapping into the oil in the Wilmington field. The goal was to explore the oil operations done by California Resources Corporation (CRC). The trip serves as a great introduction to the petroleum industry and types of jobs that are typical of this field. Specifically, students learned about the nature of these oil operations and the relations between CRC and the city of Long Beach. They also learned how large a role water plays in oil recovery and the issue of subsidence for the city. This event is one of our most impactful for our chapter members because it involves direct interactions with an oil/gas company. Our chapter greatly appreciates once again the help of Michael Williams, the mechanical integrity engineer lead at CRC for servicing as our tour guide.

The week after, November 8th, CSULB SPE held a general body meeting with speakers Vanessa Perez and Ricky Lee. They are both associate mineral resources engineers employed by the California State Lands Commission, Mineral Resources Management Division. The panelists described how they became engineers and geologists, respectively, and their current duties. Students heard about their job-related experiences, including obstacles they encounter, accomplishments achieved, and their favorite aspects of their work. They also shared advice about internships and choosing the right major.

We are excited to have our new chapter liaison, Robert Sebag. Mr. Sebag introduced himself to our chapter members on November 15th at our 4th general body meeting. The 24-year-old works for California Resources Corporation (CRC) as a production/operations engineer. He graduated from Colorado School of Mines in 2015 with a BS in chemical engineering. His first exposure to Oil and Gas was through an internship with Occidental Petroleum in the summer of 2014. He worked as a reservoir engineer for the summer identifying horizontal drill concepts in the Long Beach field. After he graduated, he returned to CRC where he worked as a reservoir engineer and a production/operations engineer for the Huntington Beach asset. When not at work, he likes to spend his free time outside hiking, backpacking, scuba diving and skiing.

During the time of this writing, we planned to have our last general body meeting for this month on November 29th, where we invited Andrew Lopez from SPEC Services to speak about his work. He is a senior chemical and mechanical engineer. He specifically plans to speak about his job, opportunities in oil and gas, and much more. We thank him in advance for taking the time to give this talk.
SPE STUDENT CHAPTER REPORTS

USC Student Chapter News

General Body Meeting #7 – Jonathan Lilien

On November 2nd, 2018, we held our 7th General Body Meeting. After a short welcome message from our USC-SPE President, Mr. Jonathan Lilien from Chevron made a presentation with topic “Environmental and Safety Aspects of Oil and Gas Production in California”. Mr. Lilien gave some useful insight to the students about the environmental risks involved in different phases of oil and gas production. He explained about the current regulations in California and how oil companies are handling the new laws. In addition, in this meeting we also had two faculty members from the Petroleum Engineering Program, our Chapter Advisor and the Director of Petroleum Engineering Program, Dr. Iraj Ershaghi and Associate Professor, Dr. Jincai Chang. Attending the presentation. We had 20 Students attending the presentation.

USC SPE Workshop for Middle School Students

On November 3rd 2018, USC SPE participated in a community service. SPE enthusiasts cooperated with the SWE and conducted middle school workshops on campus supporting the Society of Women Engineers efforts of promoting STEM field among middle schoolers.
SPE STUDENT CHAPTER REPORTS

USC Student Chapter News cont

General Body Meeting #8 – Jeff Voorhis

In our 8th General Body Meeting on November 13th, 2018, the USC-SPE members had the chance to get more familiar with one of today’s important topics, venting and flaring. Our guest speaker, Mr. Jeff Voorhis talked about the best practices that help to reduce venting and flaring with economic benefits. In his presentation, beside slides he played some video clips to give more insight about the extent of lost energy due to venting. He mentioned how companies may increase their net revenues simply by taking care of equipment’s maintenance issues. In this event, 13 students participated.

ExxonMobil/POPCO Field Trip

On Friday November 30th, 2018, 20 Members of USC SPE attended a field trip organized for the visit to the ExxonMobil and POPCO processing plant at Las Flores Canyon. Our members enjoyed a lot this educational field trip and heard about future that Exxon Mobil has in the
Call to Order – 10:40AM; quorum check

1) Approval of the Agenda
Robert moved to approve agenda adding an item to discuss job posting that DOGGR wanted to put in the newsletter. Bill seconded. Agenda approved.
2) **Approval of the Minutes for the Board Meetings held on June 12, 2018**
   Bill moved to approve the minutes. Brian seconded. Minutes approved.

3) **Actions:**
   a) Brian moved that we allow DOGGR to make a job posting in the newsletter at no cost. Bill seconded. It was approved for this job posting only. Future job posting will have to be approved by the Board if they are posted at no charge.
   b) The state of the LASPE Board was discussed. There are two openings. We need a new Secretary now that Jay Huff has resigned. We also need a new Program Chair. The Chair position also needs to be filled.

4) **REPORTS:**
   a) Treasurer’s Report – Francois Florence – Francois will send Board members the updated financial reports.
   b) Program Chair – Robert Schaaf – Don Paul is speaking today. We have speakers through January. Robert will coordinate with Omar at USC to try to get LASPE speakers to also present at the USC meetings.
   c) Golf Committee – JR Smoyer, Ryan Kwong, Brian Tran, Bill Sanz, Francois Florence, Mark Ghann-Amoah – No update.
   d) Outreach Activities – Scott Hara, Vanessa Perez – MESA Days are scheduled for March 2\textsuperscript{nd} and March 9\textsuperscript{th}.
   e) YP Activities – JR Smoyer – No update
   f) Awards Committee – Ryan Kwong – No upcoming awards that we are aware.
   g) Student Liaison – Steve Shryock – The SPE Student Symposium may be held at USC. Talks are underway. Both USC and CSULB will submit reports on their activities at the September Dallas ATCE.

5) **Student Chapter Reports**
   a) USC – Have already had 4 meetings. Adi Varma of CRC presented at one meeting. ExxonMobil discussed their activities at another. Todd Stevens, CEO of CRC, is talking at their upcoming meeting.
   b) CSULB – Steve Cheung presented at a recent event. Vanessa Perez of State Lands will be talking at an upcoming event. Long Beach students will participate in upcoming USC field trips.

6) **Adjournment**
   The meeting was adjourned at 11:25 am (Pacific Time Zone).

Respectfully submitted,

Robert Schaaf
Chair
SELECTED SPE UPCOMING EVENTS 2018 - 2019

<table>
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<tr>
<th>Date</th>
<th>Title</th>
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<tr>
<td>December 11*</td>
<td>Charles Pope - Distinguished Lecturer - &quot;Stop, Drop, and Circulate - An Engineered Approach to Coiled Tubing Intervention in Horizontal Wells&quot;</td>
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<td>January 8*</td>
<td>Gary F. Teletzke - Distinguished Lecturer - &quot;CO2 in the subsurface - From EOR to Storage&quot;</td>
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<tr>
<td>March 12*</td>
<td>Med Kamal - Distinguished Lecturer - &quot;Conventional and Unconventional Reservoirs - What's Is In and Out in Today's Pressure Rate Transient Analysis&quot;</td>
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<tr>
<td>April 23-26</td>
<td>WRM 2019 San Jose, California</td>
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<tr>
<td>May 14*</td>
<td>Roy Ledgerwood III - Distinguished Lecturer - &quot;Solving the Mystery of Low Rate Penetration in Deep Wells&quot;</td>
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* Asterisk * on date indicates a Board of Directors meeting starts at 10:30 AM prior to Petroleum Technology Luncheon. All are welcome to attend.

DEADLINES FOR NEWSLETTER ARTICLE SUBMISSION

<table>
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<tr>
<th>Month</th>
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<th>No Submissions Accepted After</th>
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<td>2/13/19</td>
<td>2/20/19</td>
<td>2/26/19</td>
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POSITION AVAILABLE

SENTINEL PEAK RESOURCES LLC
Exciting and challenging opportunities await you at Sentinel Peak Resources (SPR) in the Los Angeles Basin and Bakersfield, CA. We are an independent oil and gas company engaged in the activities of acquiring, developing, and producing oil and gas properties primarily focusing on heavy oil development in California.

CURRENT OPPORTUNITIES:

Senior Reservoir Engineer (Los Angeles Basin):
• Minimum of 10 years of reservoir engineering experience, preferably in the oil and gas industry, with a technical proficiency in all areas of reservoir engineering.
• BS in Petroleum or Mechanical Engineering, MS chemical, Petroleum, or Mechanical Engineering Preferred.

HOW TO APPLY:
Submit Resume via email to careers@sentinelpeakresources.com EOE, M/F/ D/V SPR does not provide sponsorship. No walk-ins.
Being Unconventional is What Set Us Apart.

Since day one Summit ESP was founded on the principal of functioning Unconventionally. Employing the most technically gifted people, giving them the tools to succeed, and responding quickly to our customer’s needs has made Summit ESP the industry leader in producing unconventional wells.

Being the most technologically advanced ESP company means Summit ESP can provide the solution your team needs to operate, even in the industry’s most dynamic environments.

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Society of Petroleum Engineers

Los Angeles Basin Section
www.laspe.org
## 2018-2019 LASPE OFFICERS, BOARD & CONTACTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Robert Schaaf</td>
<td>LASPE Chairperson 2016-2018</td>
<td><a href="mailto:rschaaf@socal.rr.com">rschaaf@socal.rr.com</a></td>
</tr>
<tr>
<td>Bill Sanz</td>
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<tr>
<td>Dr. Ted Frankiewicz</td>
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<td>Andrew Lopez</td>
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<td>Brian Tran</td>
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</tr>
<tr>
<td>JR Smoyer</td>
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<td>Mark Ghann-Amoah</td>
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### Committee Chairs

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Ryan Kwong</td>
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<td>SPE International</td>
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