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

GOLF April 21, Oil and Gas Investment, Energy Transitions, LASPE Technology Meeting in Person at The Grand

Dear Colleagues,

I hope the rain has not uncovered any leaks in your roof as it has for me, however, I am grateful for all the rain because my garden is very green and large and I look forward to a sunny growing season.

The 2023 LA Basin SPE Scholarship Golf Tournament is coming up very quickly on April 21. We will be hosting it at the Navy Course located at 5660 Orangewood Ave, Cypress, CA 90630.

Despite a leading investor group pulling out of upstream oil & gas investments this month saw continued investment in the oil & gas industry. The Biden administration auctioned 1.6 million acres of water in the Gulf of Mexico's outer continental shelf which is a little over 2% of the 73.3 million acres of federal waters controlled by the Interior Department. The Biden administration also approved ConocoPhillips' contested Willow drilling project in Alaska while simultaneously banning drilling in other areas of

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The LASPE Technology in Person Meeting
will be Tuesday April 11th at 11:30AM, at The Grand in Long Beach

"Optimizing Well, Pipeline and Cable Operations with the use of Fiber Optic Sensing Technology"

Andres Chevarria, Technical Director, LUNA-OptaSense

See page 3 for Details

Alaska in and around the Beaufort Sea. The Willow project is expected to produce up to 180 Mbpd of a lower carbon-intensity fuel that even some environmentalists cautiously support.

As the war in Ukraine continues American and European energy independence are receiving greater attention and giving a greater market to natural gas once seen as an oil field nuisance.

Wood Mackenzie suggests US LNG investments could reach as high as $100 billion by 2030 and increase production by 70 to 190 million tonnes/year. Meanwhile, the large Plaquemines LNG project has received nearly $8 billion in investments for its second phase.

As the energy transition continues globally more energy production is continuing offshore including electrical and hydrogen production as means for energy transport. You can also see a summary of other projects SPE's JPT is tracking. Even huge service companies are continuing to heavily invest like Baker Hughes partnering with eFuels company HIF Global to develop direct air capture technology and Schlumberger bringing to market a new geopolymer cement-free system that minimizes the CO_2 footprint of a well's construction.

SPE has launched a new technical section relevant to California as it moves to clean up improperly abandoned wells, read about the new Plug and Abandonment Technical Section (P&ATS).

This month is an in-person presentation at the Grand in Long Beach by Andrés Chavarría the Technical Director of LUNA-OptaSense. He will present "Optimizing Well, Pipeline and Cable Operations with the use of Fiber Optic Sensing Technology" in which he will discuss fiber optic sensing covering a wide range of applications in O&G, mining, smart city, renewable energy, and infrastructure monitoring.

Finally, SPE LA Basin continues to seek interested professionals to join the board; please email me if you are interested in helping in any capacity.

Sincerely,

Andrew López
SPE LA Basin Section Chair 2020-2023
aslopez@burnsmcd.com

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LASPE Website
connect.spe.org/LosAngelesBasin/Home

Society of Petroleum Engineers
Los Angeles Basin Section
www.laspe.org

The LASPE Technology Meeting is In Person
Tuesday April 11th at 11:30 *AM*,
The Grand
4101 E Willow St, Long Beach, CA 90815

Optimizing Well, Pipeline and Cable Operations with the use of Fiber Optic Sensing Technology

Andres Chavarria,
Technical Director, LUNA-Optasens

For more information contact Ted Frankiewicz using email
tcfrankiewicz@gmail.com

Meeting/Lunch is $35 for members and $10 for students

Abstract:
Fiber optic instrumentation is sensitive to temperature, strain, acoustics and seismic signals. This versatility can enable various types of cables to monitor different types of infrastructure in real time with high spatial and temporal resolution. In this presentation I give an overview of how operators are using these sensors to assess aspects of well and pipeline integrity. Showing various case studies, we demonstrate how this technology can greatly improve operations of critical assets including power cables that instrument offshore and land facilities. I will show how these real time sensors can also be used for subsurface analysis that can help operations of reservoirs and/or underground storage facilities.

Biography:
Andres Chavarria is LUNA-OptaSense's Technical Director. He oversees a team of experts on fiber optic sensing covering a wide range of applications in O&G, mining, smart city, renewable energy and infrastructure monitoring. He has +20 years' experience on earth science and engineering monitoring. He was the Geophysical Processing Manager at SR2020 and Paulsson. He holds an Engineering Degree from UNAM and a PhD Degree on Geophysics from Duke University.

SPE LA BASIN SCHOLARSHIP GOLF TOURNAMENT

April 21, 2023 – FRIDAY

The Navy "Destroyer"Course

5660 Orangewood Ave., Cypress, CA 90630

08:00 SHOTGUN START

CHECK IN 30 – 45 MINUTES BEFORE THE TOURNAMENT START TIME

(This is a Shotgun Start)

REGISTER AT https://spelabasingolf.com

INCLUDES RANGE BALLS, CART, BUFFET LUNCH, RAFFLE PRIZE TICKETS & MORE

SPONSORSHIPS ARE AVAILABLE

FOR INFORMATION CONTACT

TCFRANKIEWICZ@GMAIL.COM 714-475-8699

THE SPE LA BASIN SECTION IS A 501(c)(3) NON-PROFIT ORGANIZATION

TOURNAMENT PROCEEDS FUND SPE LA BASIN SECTION SCHOLARSHIPS & OUTREACH PROGRAMS

A PORTION OF YOUR REGISTRATION MAY BE TAX DEDUCTABLE

Los Angeles Basin Section

INDIVIDUAL PLAYERS: $200

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RAFFLE TICKETS: $5 each, $20 for 5-tickets

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- TEE SPONSORSHIP: $250 (18 Available)
- REFRESHMENTS SPONSOR: $500 (2 Available)
- LUNCH SPONSORSHIP $1000 (2 Available)
- SCHOLARSHIP SPONSOR: $500 min. $2000 max.

****Raffle Prize donations are greatly appreciated****

Please visit the Tournament Website for registration and sponsorship opportunities https://spelabasingolf.com

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For golf tournament questions contact
TCFRANKIEWICZ@GMAIL.COM 714-475-8699

LASPE SCHOLARSHIP PROGRAM

Dear fellow LASPE members and applicants,

It is the board of director's pleasure to announce the 2023-2024 scholarship program. The program aims to attract engineering students that are interested in a career in the Petroleum Industry. Our goal is to promote local interest in up-and-coming talent who will be the future of our industry. We want to encourage students to pursue science and engineering curriculums and to increase their awareness of future career opportunities. The LASPE awards scholarships to local university graduates, undergraduate students, and local high school students.

We want to thank all the companies, members and contributors who participate in our events, workshops, and activities. These activities and the funds generated are the lifeblood of our program that enables us to award scholarships to deserving students for years. Please pass along the scholarship announcement and application to a promising candidate if you know one. The LASPE scholarship committee will also reach out and spread the word to local universities.

For more information, contact:

LASPEscholarship@gmail.com or
briantran82@gmail.com

Awards available:

- Undergraduate Scholarships of $1,000 each or more; USC, UCLA, UCI and Cal State Long Beach.

- Masters Students Scholarships of $1,000 each or more, of which Bruce Davis Scholarship will be for the USC award, and others for top Masters Students at UCLA, UCI and CSLUB based on GPA and extracurricular activities. Contingent upon applicant pool.

- Graduate Student Awards for Excellence of $1,000 each or more for the most outstanding contribution to the Oil & Gas industry. Can be project, paper, thesis, etc.

- Candidates who are relatives of SPE Members from outside local schools will be considered as long as they pursue a technical degree path towards the petroleum industry.

LASPE SCHOLARSHIP PROGRAM *CONTINUES*

The Scholarship committee will accept applications through August 31st. The awards will be presented to students at a special meeting in September or October.

Scoring Criteria and considerations:

Merit Based scholarship

High School, Undergraduate & Graduate Scholarships

PhD candidates only eligible for Awards of Excellence.

- Complete scholarship application
- Must be pursuing technical degree field
- Maintain full time academic load/full time student status for upcoming terms
- Active member of SPE (Student Chapter or L.A. Basin Section)
- Research Project, Paper, or Thesis – Synopsis/abstract attachment. 300 words max
- Internships served – When, Where & Duties
- Consideration for activity serving the industry and supporting SPEI section/ chapter
    - Section participation
    - Industry event participation
    - Volunteerism at events
    - Attendance of workshops/meetings
    - Young Professionals
- Personal statement of interest in pursuing career in oil & gas industry – 100 words or less

This announcement and the scholarship application can be found online:

https://connect.spe.org/losangelesbasin/home

This is the LASPE Home page, then take the link to the scholarship program page.

SPE TECHNICAL SECTIONS

Announcing a New Technical Section!

Plug and Abandonment Technical Section (P&ATS)

SPE has established a new Technical Section, the **Plug and Abandonment Technical Section (P&ATS)**. This new technical section is dedicated to cost effective well decommissioning and leakage prevention from abandoned wells, including the repair of failed or patently inadequate prior abandonments of old wells that were plugged-off under outdated industry practices or regulatory expectations.

The P&ATS is established for technical professionals, academia, and stakeholders working in well decommissioning to come together and share knowledge, experiences, best practices and expectations or regulations; identify opportunities for innovation; promote industry awareness of technical challenges, solutions, and the expectations of society; and enhance technical competency.

The focus of the Technical Section is on “deep” wells. These are wells that must comply with the same set of regulations as oil, gas, and geothermal wells, including associated water injection and salt-water or sand, cuttings or sludge disposal wells.

P&A has recently evolved from a one-time end-of-life cost, where a few locally designated compliance boxes were ticked-off, to an essential and prolonged effort to reduce our greenhouse gas emissions, prevent aquifer pollution, and manage liabilities. With the prospect of reusing abandoned wells or assuring their safety when storing energy or carbon dioxide (CCS or CCUS), P&A has taken center stage in the future evolution of our industry.

We invite you to join the P&ATS in order help our industry thrive, as the expectations from the stakeholders get tougher and a lot more “deep” wells drilled in support of geo-energy supply approach the end of their useful life.

You can join HERE! Simply check the box next to Plug and Abandonment and click Save at the bottom of the page.

Members can learn more about the Plug and Abandonment Technical Section **HERE.**

Join us for the 2023 SPE Western Regional Meeting "Energy in Transition"

Registration is now open for the **2023 SPE Western Regional Meeting** taking place 22–25 May in Anchorage, Alaska.

Themed "Energy in Transition," the event will include technical presentations, opportunities for networking, and the chance to hear from industry thought leaders during panel discussions and keynote luncheons.

Register by 15 March to save with early-bird rates.

Group registration is available—get a 10% discount on groups of 10 or more. Email cwalsh@petroak.com to request a group reservation.

CLICK TO REGISTER TODAY

LASPE OUTREACH: SCIENCE FAIRS NEWS

The 2023 Annual Orange County (OC) Science & Engineering Fair was held virtually again this year while, after 3 years, the Los Angeles (LA) Science & Engineering Fair was held at the Shrine Auditorium in Los Angeles (photo below).

Vanessa Perez, Scott Hara, and Steve Shryock volunteered as this year's science fair delegates. For the OC fair, the delegate's reviewed the student's abstracts, logbooks, reports, and videos through the center's virtual tour. For the LA fair, the delegates were able to review the projects online and conduct interviews for the selected winners. The delegates reviewed projects related to energy, pollution reduction, climate change, and environmental concerns related to the energy industry.

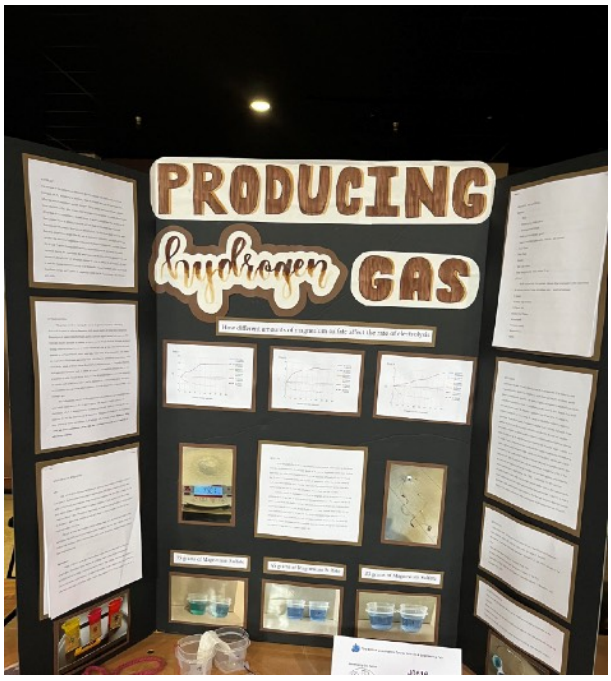
For each county, the top two winning junior and senior level projects were selected based on outstanding technical achievement in projects relating to the development of oil and/or gas resources, other energy sources, mechanics, subsurface fluid flow, or production of those other energy resources. The selections portrayed the most creativity and scientific thought. Each student will receive a $100 check, a LASPE achievement certificate, and a LASPE recognition letter.

Congratulations to the following students:

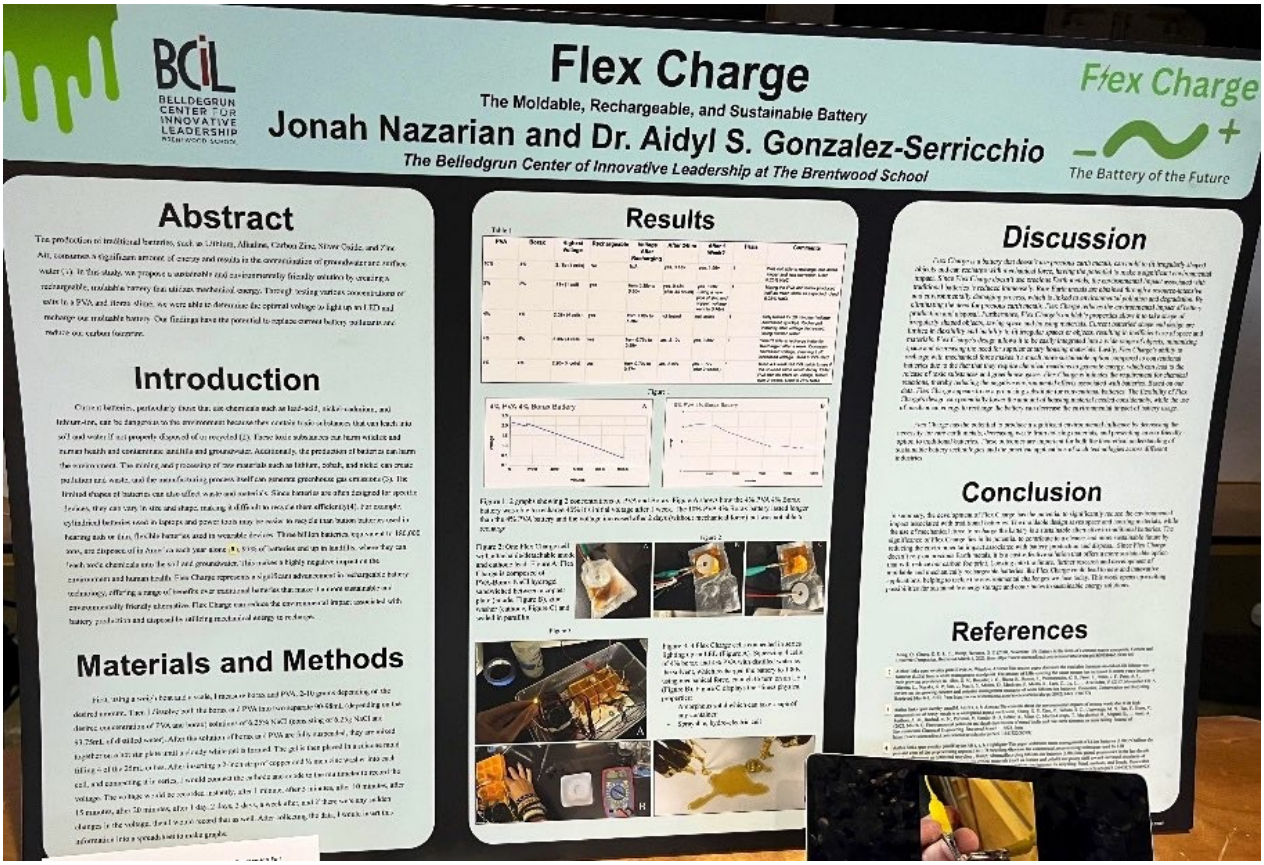
Orange County Fair:

- Khushi Kadwadkar: Storing Solar Energy in a Natural Battery for Peak And Night-time Uses
- Madeline Pinches: Platinum Nanowire for Hydrogen Sensing

Los Angeles County Fair:



- Aspen Chung: Producing Hydrogen Gas through Electrolysis: How different amounts of magnesium sulfate affect the rate of electrolysis and pH change



- Jonah Nazarian: Flex Charge

Society of Petroleum Engineers

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Energy Excellence Awards

Welcome to the Energy Excellence Awards, the premier awards ceremony for the global energy industry.

Gulf Energy Information, the world's largest independent media company serving the energy industry, has announced the inaugural Energy Excellence Awards to recognize and celebrate cutting-edge technological developments and exceptional leadership in the industry.

This black-tie gala will bring together hundreds of upstream, midstream, and downstream innovators and industry leaders at the luxurious Post Oak Hotel in Houston, Texas, on October 11, 2023. This exclusive event will feature networking opportunities, entertainment, and recognition of the top performers in the industry, combining the respected World Oil Awards, Hydrocarbon Processing Awards, and Pipeline & Gas Journal Awards.

The awards will honor the best of the best in the industry, recognizing innovation and technological advancements across each market segment. Be a part of the celebration of excellence in the international energy market and join us at the Energy Excellence Awards.

Information

SUBMIT NOMINATION

Energy Excellence Awards

Categories

Best Catalyst Technology
Best Petrochemical Technology
Best Refining Technology
Best Digital Transformation – Upstream, Midstream, Downstream
Best Completions Technology
Best Deepwater Technology
Best Oilfield Fluids and Chemicals
Best Drilling Technology
Best EOR Technology
Best Exploration Technology
Best Production Technology
Best Pipeline Integrity Technology
Best Coating/Corrosion Advancement Technology
Best Advancement in Maintenance Technology – Midstream
Innovation in Pipeline Engineering – Midstream
Best Controls, Instrumentation, Automation Technology
Modeling Technology
Operator of the Year – Upstream, Midstream, Downstream
Energy Leader of the Year
Large-cap Energy Firm of the Year
Mid/Small-cap Energy Firm of the Year
Energy Finance Provider of the Year
Energy Advisory of the Year
Energy Legal Services Provider of the Year
CCS/CCUS Project of the Year
Technology Licensor of the Year – Downstream & Midstream

People Awards

Lifetime Achievement – Upstream, Midstream, Downstream
Most Promising Engineer – Upstream, Midstream, Downstream
Energy Leader of the Year
DE&I in Energy

Project Awards

Energy Project of the Year – Upstream, Midstream, Downstream

HSE Awards

Best Health, Safety or Environmental Contribution – Upstream, Midstream, Downstream

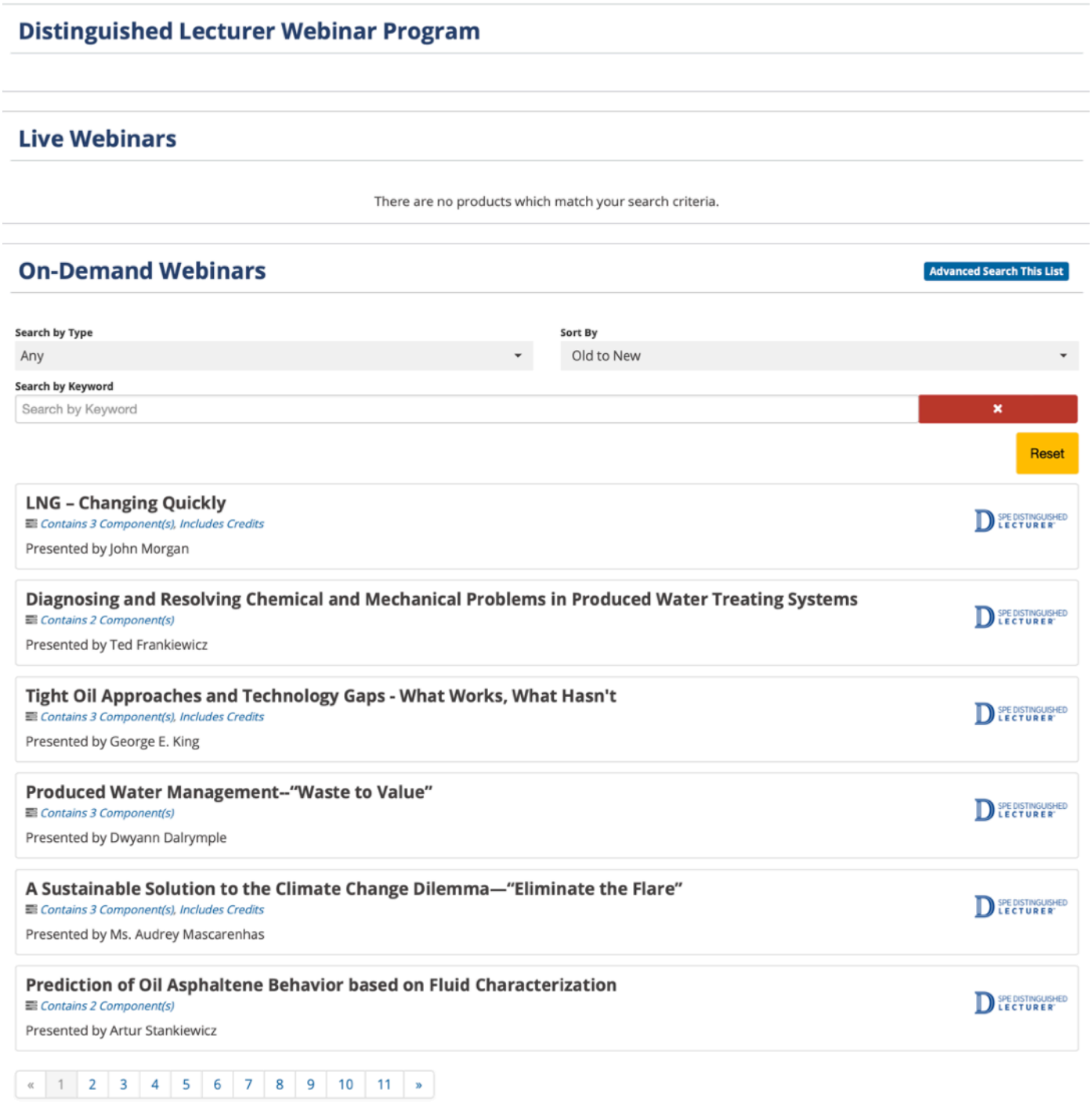
Information

SUBMIT NOMINATION

DISTINGUISHED LECTURERS ONLINE!

Stay informed by watching the DL Webinars - see below.

Here is the link to the complete selection of over 50 DL Webinars - click here



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Diagnosing and Resolving Chemical and Mechanical Problems in Produced Water Treating Systems
Contains 2 Component(s)
Presented by Ted Frankiewicz

Tight Oil Approaches and Technology Gaps - What Works, What Hasn't
Contains 3 Component(s), Includes Credits
Presented by George E. King

Produced Water Management--"Waste to Value"
Contains 3 Component(s)
Presented by Dwyann Dalrymple

A Sustainable Solution to the Climate Change Dilemma—"Eliminate the Flare"
Contains 3 Component(s), Includes Credits
Presented by Ms. Audrey Mascarenhas

Prediction of Oil Asphaltene Behavior based on Fluid Characterization
Contains 2 Component(s)
Presented by Artur Stankiewicz

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Conference, Event Recap. March 2023:

USC was able to have chapter representation at the following events in March.

- **Ershaghi Center for Energy Transition Summit. March 20th, 2023**
  https://ecet.usc.edu/
- **SPE LA Basin Young Professionals Event. March 20th, 2023**
  Natural Gas Storage Presentation. Francois Florence, PE
- **Viterbi Scholarship & Fellowship Dinner**
  Recipients:
  Darby Warburton, Elena Ikeocha, Mariam Tapsoba, Sergio Mendez, Micah Lopez, Mathew Davis

Field Trips, Upcoming Events. Spring 2023:

- **April 7th: Aera Energy, Ventura Oil Field.**
- **April 14th: Chevron, Kern River Oil Field.**
- **April 21st: SPE LA Basin Golf Tournament.**

Speakers. March 2023:

- **March 31st: Andrew Bremner, CRC**

STATE EXAM FOR JOB ELIGBILITY

**** This is an advertisement for a State examination not a job ****

The State of California has a two-step hiring process. The first step is to take an examination to evaluate your education, experience, abilities, and knowledge. If you pass the examination, then you are placed on an eligible list. Once you are on the eligible list, the second step is to apply for jobs.

The CA State Lands Commission is currently offering an examination for the **Senior Mineral Resources Engineer** classification in Huntington, CA and Long Beach, CA. For more information regarding this examination and to view the examination bulletin in its entirety go to https://www.calcareers.ca.gov/CalHrPublic/Exams/Bulletin.aspx?examCD=3LN05

NOTE: Only examination application packages submitted through the official State process can be considered. Please thoroughly review the examination bulletin prior to submitting your examination application package. Examination packages or resumes submitted through Indeed will not be considered. All examination packages must be received or postmarked by 04/12/2023.

Job Description:

This is the first full supervisory level. Plans, organizes, and directs the work of mineral resources engineers and subprofessional assistants engaged in the administration and control of leases for the extraction of oil, gas, geothermal and other minerals on State-owned or controlled lands. Prepares technical reports in connection with oil, gas, geothermal and other mineral extraction operations; evaluates staff performance, provides staff training, and furnishes assistance on difficult technical problems; is responsible for the development of highly specialized information relating to the production of oil, gas, geothermal and other minerals on State-owned or controlled lands.

Salary:

$12,167.00 - $15,234.00 per month

SELECTED SPE UPCOMING EVENTS 2023

Date	Title
Apr 11, 2023 *	Optimizing Production Operations with the use of Fiber Optic Sensing Technology J. Andrés Chavarría, Technical Director, OptaSense, Inc. IN-PERSON LUNCHEON PRESENTATION
Apr 21, 2023	**LA Basin Section Scholarship Golf Tournament at the NAVY Course in nearby Cypress, CA (Orange County)**
May 9, 2023 *	A CalGEM Sr. Executive (TBD) speaks to the LA Basin Section IN-PERSON LUNCHEON PRESENTATION
May 22-25, 2023	SPE 2023 WRM **Anchorage, Alaska** "Energy in Transition"
	* Asterisk * on a 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

Month Published	1st Submission Call	Last Submission Call	No Submissions Accepted After	Newsletter Publish Date
May	4/17	4/24	4/27	May 1
June	5/15	5/22	5/27	June 1
Sept	8/14	8/21	8/28	Sept 1

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