

## Los Angeles Basin Section Society of Petroleum Engineers

*Recipient of the SPE President's Section Award for Excellence & a SPE Gold Standard Section*

**The LASPE Technology **VIRTUAL** Meeting  
**Wednesday DECEMBER 14th at 11:00 AM.**  
**The DL Presentation will be on the topic:****

**On Repurposing Oil and Gas Wells to  
Geothermal Wells**

**A. Dahi Taleghani, SPE Distinguished Lecturer &  
Professor Petroleum Engineering Pennsylvania  
State University**

**Pre-registration REQUIRED**

**Please register NOW at: <https://tinyurl.com/2p87m2yb>**

**Then Click the "Register Now" button**

### **Abstract:**

The number of abandoned oil and gas wells are growing over millions, significant costs are imposed to companies and government for decommissioning these wells. However, it would be very encouraging for the oil and gas industry to take advantage of these wells and use them as a source of geothermal energy. Huge upfront costs have always been a major obstacle for the development of geothermal energy. As a rule of thumb, a quarter of the costs for harvesting geothermal energy is going toward drilling and one third of the costs is spent for completions. One obvious solution is avoiding these costs by repurposing existing oil and gas wells to

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### **LASPE Website**

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



generate geothermal power at the end of their economic production life. In some regions of extensive hydrocarbon explorations, the geothermal gradient can be very steep, providing potential well candidates for conversion. Taking into consideration the local energy demand, potential market, existing infrastructure, and technical challenges, a conversion strategy for the existing wells is discussed specially in terms of the wellbore integrity requirement and steps to ensure hydrocarbon containment during the heat extraction process. Potential challenges in inspection and preparation of these wells in terms of well integrity and productivity with possible remedies will be discussed in this presentation.

### **Biography:**

Dr. Arash Dahi Taleghani is a tenured associate professor of petroleum engineering at Pennsylvania State University. Before joining Penn State, he was an associate professor of Petroleum Engineering at Louisiana State University. He earned his Ph.D. in Petroleum Engineering from the University of Texas at Austin. He has about 12 years combined experience in applied engineering, research and in academia and is a registered professional engineer. Dr. Dahi Taleghani is the associate editor of ASME journal of Energy Resources and Technology and has numerous publications and six patent applications in the field of drilling and completion. In 2014, he received the Distinguished Achievement Award for Petroleum Engineering Faculty from the Society of Petroleum Engineering (SPE). He has also received SPE Eastern North America Regional Completion Optimization and Technology in 2017. He is currently conducting research in reservoir geomechanics, hydraulic fracturing, wellbore integrity, and geothermal energy.

For more info contact Ted Frankiewicz at [tcfrankiewicz@gmail.com](mailto:tcfrankiewicz@gmail.com)





Los Angeles Basin Section

## REMINDER TO RENEW SPE MEMBERSHIP!

The Society of Petroleum Engineers is open for all who are interested in the Oil and Gas Industry and Energy Transition (geothermal, hydrogen, and so on.) Scientists, engineers, managers, and others are a part of our community. **It is time of the year to renew your membership.** Membership includes one local section: [Home - Los Angeles Basin Section \(spe.org\)](https://www.spe.org/membership/sections/los-angeles-basin-section)

**Renew online:** [Renew Your Membership \(spe.org\)](https://www.spe.org/membership/renew)

For students, it is Free (being sponsored by Chevron): <https://www.spe.org/member/JoinSPE?MBRProcess=Join&MBRType=STUDENT>

### Member Benefits:

- Discount to conferences and workshops – for technical Knowledge and interaction
- Complimentary copies of Journal of Petroleum Technology and other magazines
- Access to technical Papers and Libraries – OnePetro, largest online technical library with copies of ten free technical papers per year.
- Opportunity to learn and practice leadership skill
- Free access to selected online presentations by top experts – Distinguished Lecturer talks.
- SPE Connect – to connect and interact with others with similar interests.
- Watch convenient and quality content on innovations, trends, and technical solution: [Home - SPE Energy Stream](https://www.spe.org/energy-stream)
- Selected Discount on insurances, car rental, books, and outfitters.
- Members are also automatically qualified for membership in the American Association of Petroleum Geologists (AAPG) and the Society of Exploration Geophysicists (SEG).

By keeping your membership, you will continue to be on our distribution list for newsletters, networking, seminars, training and additional information and resources to help you thrive in this industry.

Please share the goodness and forward to coworkers and friends who are not members yet to encourage them to join: **Join Online:** [Qualification \(spe.org\)](https://www.spe.org/membership/qualification).

For more information or interaction, please contact

Steve Cheung at [Steveior@yahoo.com](mailto:Steveior@yahoo.com)  
Membership Committee Chair

## SEEKING NOMINEES FOR BOARD OF DIRECTORS

Society of Petroleum Engineers-LA Basin Section is seeking new nominees for future considerations to serve on the Board of Directors (BOD). If you are interested, or if you have any questions, please contact Vanessa M. Perez at [perezv28@gmail.com](mailto:perezv28@gmail.com). Candidates would submit brief biography emphasizing your education, petroleum industry-related activities and previous involvement in SPE local, regional and national programs.

Commitment for this position involves attendance at a one-½ hour monthly BOD meetings. Currently, the BOD meetings are held at 10:30 a.m.-12:00 noon on the second Tuesday of the month at The Grand in Long Beach and held before the monthly SPE Forum. There are ten meetings each year from September through June.

The Board members benefits include making business connections, lifetime friendships, building a career network locally, with SPE members domestically and worldwide, keeping abreast of the latest technologies and authors, learning event planning, and outreaching to improve education in our local communities. Board members are expected to volunteer to be on one or more local committees such as scholarship, science Fair, FSEA, golf, OCEC, LACES, membership, program, etc. It is also expected that the Board members get involved in one SPE national and regional committees such as continuing education, career guidance, editorial, textbook, ATCE, WRM, etc., if called upon to do so.

So, you must familiarize yourself with SPE operations using [www.spe.org](http://www.spe.org) as a guide, help run the local section and represent the local members in the regional and national SPE affairs. You also need to familiarize yourself with LASPE bylaws given in the section's web site: <https://connect.spe.org/losangelesbasin/aboutus/laspebylaws>. Article V pertains to the election of new directors, etc.

On the last year of your BOD membership, you will be asked to be Vice Chair of the Section, which will qualify you to be a candidate for the Chairmanship of the Section the following year. If elected as the Chair of the Section, you will stay on the Board for two additional years after completion of your Chairmanship as the Junior and Senior Past Chair.

I am looking forward to receiving your bio. If you have any questions, feel free to contact me at [perezv28@gmail.com](mailto:perezv28@gmail.com)



## 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](#)

### Distinguished Lecturer Webinar Program

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##### Tight Oil Approaches and Technology Gaps - What Works, What Hasn't

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##### 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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## USC STUDENT CHAPTER REPORT

*Hosted Speaker:*

**Tom Macrae: “Never Say Never Again, Revisiting Oil Field Disasters”**

Outline:

Tom has over 35 years in drilling, his expertise is in drilling, well control, risk management, training, coaching, and auditing. As an engineering graduate, he started his oilfield career in the North Sea as Trainee Driller back in 1981 working with various drilling contractors before joining BP in 2000 as a Senior Company Man. After 5 years as a staff rep, he started his own consultancy services before founding Flying-A Well Control LLC in Texas in 2014, Flying A Drilling Services LLC (UK) in 2017 and now Flying A Services LLC. His focus is providing accredited well control training as well as continuing to offer other training, well control assurance and well integrity, auditing, well management and supervisory services. In his career, he has worked Platforms, Jack-ups, Semis, Drillships, and Land drilled wildcat, exploration, appraisal, development, HPHT, ERD and H2S wells and experienced extreme conditions in the Arctic, West of Shetland, Malaysia, West Africa, Gulf of Mexico, India and the Caribbean.



## SELECTED SPE UPCOMING EVENTS 2022-2023

Date	Title
Dec 14*	Repurposing Oil & Gas Wells to Geothermal Wells Arash Dahi Talighani - DISTINGUISHED LECTURER - VIRTUAL Page 1 & 2
Mar 14 2023	From Digital Rocks to Gigatonne Scale CO2 Storage: Two Revolutions in One Samuel Trevor -DISTINGUISHED LECTURER - VIRTUAL
May 22-25	SPE 2023 WRM Anchorage, Alaska "Energy in Transition"
	* 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

Month Published	1st Submission Call	Last Submission Call	No Submissions Accepted After	Newsletter Publish Date
Jan 2023	12/19	12/26	12/29	Jan 2
Feb 2023	1/16	1/23	1/27	Feb 1
Mar 2023	2/13	2/20	2/24	Mar 1





## 2022 - 2023 LASPE OFFICERS, BOARD & CONTACTS

Name	Position	E-mail
Andrew López	LASPE Chairperson 2020-2023	<a href="mailto:aslopez@burnsmcd.com">aslopez@burnsmcd.com</a>
Open	Vice Chairperson	
Robert Schaaf	Past Chair - Board Member	<a href="mailto:rpschaaf@gmail.com">rpschaaf@gmail.com</a>
Francois Florence	Treasurer - Board member through 2022	<a href="mailto:francois.florence@gmail.com">francois.florence@gmail.com</a>
Vanessa Perez	Secretary - Board member through 2022	<a href="mailto:perezv28@gmail.com">perezv28@gmail.com</a>
Ian Johnnecheck	Board member through 2022	<a href="mailto:ianJohnnecheck@gmail.com">ianJohnnecheck@gmail.com</a>
Ted Frankiewicz	Board member through 2022	<a href="mailto:tcfrankiewicz@gmail.com">tcfrankiewicz@gmail.com</a>
Steve Cheung	Board member 2021-2024	
<b>Committee Chairs</b>		
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Ted Frankiewicz	Forum and Program Chair	<a href="mailto:tcfrankiewicz@gmail.com">tcfrankiewicz@gmail.com</a>
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