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

WTI Oil Prices High, OPEC Keeps Production Down, Gas Technology, Hydrogen, Solar, Geothermal Energy and Golf!

Dear Colleagues,

Firstly, I hope everyone had a great and relaxing holiday season and that you were able to visit family that you may not have seen during the last several months. As we start a new calendar year, let us hope that this year is an improvement over 2021 for everyone, both personally and professionally.

WTI oil prices remain fairly high but have dipped to about $75/bbl, which is in the target range of $65/bbl to $80/bbl set by OPEC+. OPEC+ recently rejected calls by the US to increase oil production and in the same statement OPEC+ revealed they do not plan to change strategies after the release from the US Strategic Petroleum Reserve. Unconventional gas technology continues to provide low-carbon fuel solutions and natural gas is increasingly being converted to LNG for export where it can be utilized to displace the use of coal for electrical energy production. Unconventional gas technology also continues to drive innovation with the developing CCUS industry in the push for net-zero carbon. In a high-level article, JPT discussed several emerging technologies being studied, but the use of hydrogen will increase and the best ways to generate, store, and transport

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Petroleum Technology Virtual Luncheon for January 11 is a MS TEAMS meeting featuring "Using Solar Thermal for Low-Risk, Low-Cost Decarbonization of California's Thermal EOR" with Steven Geiger, Innova Partners.
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SPE CSSSG Webinar "Active Control and Measurement of Oil Vapor"
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THE JANUARY 11TH PETROLEUM TECHNOLOGY "LUNCHEON" WILL BE A 11:30 AM MS TEAMS MEETING FEATURING "USING SOLAR THERMAL FOR LOW-RISK, LOW-COST DECARBONIZATION OF CALIFORNIA'S THERMAL EOR" WITH STEVEN GEIGER, INNOVA PARTNERS

See page 3

Chair Message continues...

hydrogen continues to be studied. The same JPT article covers a number of other technologies which energy companies are developing or adapting to reduce GHG emissions. This includes electrification of production operations, the reduction of flaring, and the use of solar energy for in-field heating or steam generation – which happens to be the subject of this month's SPE LA Basin Technology webinar. Finally, there have been a number of articles regarding Canadian oil sands in the last couple of months. It seems that the price of oil in the $65/bbl to $80/bbl range allows profitable oil sands production. The Canadian government is working with oil producers to reduce GHG emissions associated with oil sands production, including the use of geothermal energy.

The 2022 LA Basin Scholarship golf tournament is scheduled for Friday April 22, 2022, at the Los Serranos North course. SO SAVE THE DATE! The Navy Course is, unfortunately, not open for tournaments.

USC Student Chapter Event - Gorgon Project Presented by Steve Shryock

LASPE Upcoming Events & Newsletter Submission Dates
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LASPE Website
connect.spe.org/LosAngelesBasin/Home

Young Professionals Facebook

The USC SPE Student Chapter plans to celebrate its 85th anniversary the 2nd week of February; we will provide more information as it becomes available. I hope to see you at the celebration.

Sincerely,

Andrew López
SPE LA Basin Section Chair 2020-2022
aslopez@burnsmcd.com

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Los Angeles Basin Section
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GOLF!!! Save the Date !!!

LASPE Scholarship

Golf Tournament

April 22, 2022

Los Serranos County Club in Chino

PETROLEUM TECHNOLOGY VIRTUAL "LUNCHEON" WILL BE AN MS TEAMS MEETING JANUARY 11 AT 11:30AM

Using Solar Thermal for Low-Risk, Low-Cost Decarbonization of California's Thermal EOR

Presented by Steven Geiger, Innova Partners

Click this link to just prior to meeting to join

https://tinyurl.com/2kkv3s8z

Abstract:

California's thermal EOR operators are under considerable pressure to lower their CO_2 emissions to maintain social license. Additionally, California's rising price on carbon represents a growing threat to profitability for unabated EOR. Modern solar thermal enjoys over a century of commercial operation and offers a lower-risk, lower-cost decarbonization pathway than other options, such as CCS. In addition to reducing emissions and regulatory risk, solar thermal is fast-deploying and can enhance profitability by up to $30/bbl and boost PV10 values significantly.

Biography:

Steven Geiger is Co-Founder and President of Innova Partners, a energy transition advisory and investment firm. He is an authority on transforming oil-dependent countries and large energy groups through technology. Earlier in his career, he was co-founder and Director of MASDAR, a $15 billion renewable energy company owned by Abu Dhabi government. Additionally he served as Chief Operating Officer of Skolkovo, the $5 billion national agency for technology innovation of the Russian government.

He was educated at MIT, Harvard and Wharton Business School.

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HELP CHOOSE THE DISTINGUISHED LECTURERS
For the 2022-2023 SEASON

Please Vote no later than January 10th for the SPE Distinguished Lecturers which you would like to have to give a presentation to the LA Basin Section in 2022-2023.

Links to files are provided below which

- List all the 2022-2023 DLs, their Discipline, their Company affiliations, and their lecture titles
- Have all of the Abstracts and Bios for the 2022-2023 DLs if you wish to know more about each presentation
- Is the spreadsheet for making your DL preference selections. (*See sample on next page*)
  Please follow the instructions below.

Rank your favorite on the Spreadsheet as "10", your next favorite as "9", etc., all the way down to "1".

Email your completed spreadsheet
to tcfrankiewicz@gmail.com
no later than January 10th .

Dr. Frankiewicz will compile the votes and advise the SPE DL Committee of the Section's preferences based upon the received votes. To maximize the probability of obtaining our highest preferences, we will be coordinating the LA Basin selections with the San Joaquin Valley Section selections

CLICK HERE FOR ALL DOWNLOADS

2022-23 Distinguished Lecturers (sortable) - DO NOT RETURN - Used for section voting if desired (10 max, 1 least)

Discipline	Lecturer	Title of Lecture	Your Points
		C = Completions DSEA = Data Science & Engineering Analytics HSES = Health-Safety-Environment-Sustainability M = Management PFC = Projects, Facilities, & Construction PO = Production Operations R = Reservoir	
		Please Vote for the SPE Distinguished Lecturers which you would like to have give a presentation to the LA Basin Section in 2022-2023. Rank your favorite as "10", your next favorite as "9", etc., all the way down to "1". Email your completed spreadsheet to tcfrankiewicz@gmail.com. Dr. Frankiewicz will compile the votes and advise the SPE DL Committee of the Section's preferences based upon the received votes.	
C	Arash Dahi Taleghani	On Repurposing Oil and Gas Wells to Geothermal Wells	
C	Jordan Ciezobka	The Hydraulic Fracturing Test Site Program: A Successful Public/Private Partnership to Advance the Science of Hydraulic Fracturing in the Permian Basin, and Beyond	
C	Vibhas Pandey	Fracture Height Growth Modeling in Layered Formations - Comparison of Modeled and Observed Data	
D	Chandramani Shrivastava	Fracture Challenge: What can we resolve while drilling?	
D	Julie Kowan	The Geomechanics of Drilling Weakly Bedded Shale in Conventional & Unconventional Wells	
D	Mike Moffitt	Effective Pipe Centralization is Critical to Total Depth and Well Integrity	
D	Paul E. Pastusek	Drill Rig Control Systems: Detecting Auto Driller Dysfunction and Improving Behavior	
D	Tom Emelander	Sidetracking with Whipstocks: An Efficient Method for Increasing Your Operational and Asset Value	
DSEA	Babak Moradi	Waterflood Optimization by Data Analytics on Mature Fields Accelerate the Field Developing Process from Months to Weeks	
DSEA	Martin Storey	A Survival Guide for Digital Transformation	
DSEA	Pallav Sarma	Physics Embedded Machine Learning for Modeling and Optimization of Mature Fields	
HSES	Drew Pomerantz	Methane Emissions: Our Obligation and Our Opportunity in the Energy Transition	
HSES	Emily Hazelwood	Rigs as Reefs: Re-imagining Our Energy Past as our Eco-Friendly Future	
HSES	Hon Chung Lau	The Role of CCS and Hydrogen in the Energy Transition	
M	Elizabeth Coffey	How do CEOs lead for success? Insights to boost your leadership skills	
M	Marise Mikulis	Successful Formula for Accelerating Change	
M	Omar Abou-Sayed	Entrepreneurship in the Transitioning Oilfield: Starting and Building a Great Company during Tumultuous Times	
PFC	George C. Brindle	Watch your losses! A Case Study of Design Choices and their Economic Impact in a Low Temperature Geothermal Project	
PO	Dan Hill	Acid Stimulation of Carbonate Formations: Matrix Acidizing or Acid Fracturing?	
PO	Darryl Tompkins	An Examination of the Effects of Surface Data Acquisition Methods on Well Performance Evaluations and Completion Optimization	
PO	Simon J. Sparke	Well integrity in the Operate phase of the well lifecycle – our roll as crime scene detectives	
R	Antonio Capeleiro	Integrated Project Development of Offshore Fields	
R	George Norton	Optimizing Field Development and Predicting EUR Utilizing Geochemistry	
R	Jesus M. Salazar	Practical Petrophysics in Unconventional Reservoirs: Chasing the Sweetest!	
R	Kristian Mogensen	The Digital Twin for Production Optimization - with Emphasis on Compositional Modeling	
R	Mehdi El Faidouzi	Turning the Tide: from Noise to Reservoir Monitoring Tool	
R	Rod Batycky	Streamline Reservoir Surveillance Models to Improve Mature Floods through Low-Cost Actions	
R	Ron Balliet	Unlocking Unconventional Reservoirs using Magnetic Resonance as the Key	
R	Samuel Krevor	From Digital Rocks to Gigatonne Scale CO2 Storage: Two Revolutions in One	
R	Shauna Oppert	Reservoir Insights Unlocked by Multidisciplinary Integration	
R	Tuba Firincioglu	Success and Failure Factors for Cyclic Gas Injection in Unconventional Reservoirs	
R	Wei Wang	Reservoir-on-a Chip Micromodels: Tiny Tools for A Big Industry	

SPE California Sustainability Study Group Webinar

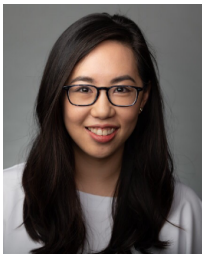
Isabel Chan

"Active control and measurement of oil vapor pressure to reduce emissions and increase oil volumes"

The Reid Vapor Pressure (RVP) has been utilized as a signifier of oil volatility to ensure safe storage and transport of the fluid through pipeline, rail, or ship. A main function of a crude oil production facility is to ensure that the RVP specification is met. The measurement of RVP is predominantly performed by manually taking samples and analyzing the sample through a specific device. This is therefore typically done only several times a year for unmanned facilities in remote locations.

Continuous and automated RVP measurement directly from the produced oil is not practical due to the need for frequent cleaning and calibration of an automated sampling system or spectrometer type of instrument. Thus, RVP remains very difficult to directly measure or predict in real time. The inherent nature of RVP is that if the value is too high, the crude does not meet custody transfer specifications due to its high volatility. If the RVP is too low, however, more hydrocarbons are removed from the crude than necessary. The latter results in reduced oil to sales and increased rich gas that are difficult to deal with in the facility, leading to increased processes upsets resulting in emissions through flaring and venting.

This represents a difficult conundrum for companies that need to maximize oil recovery and respond to the mounting environmental pressures. Fortunately, there are ways that RVP can be measured accurately through monitoring the process parameters throughout a production system in a digital environment. This method has been developed and tested at a production system in the Bakken. The results have been validated and leveraged to increase oil recovery whilst reducing emissions.



Speaker: Isabel Chan

Isabel is a native Houstonian that has been in the oil and gas industry for 12 years. She holds a BS in Chemical Engineering from The University of Texas at Austin. She has had experience in refining, plastics, LNG, and upstream production.

She has been working for TechnipFMC for 9 years. Her current role is leading new product development in oil processing equipment and automation for process optimization, focused on products that can increase oil production while lowering emissions.

Register Today!

Webinar is Wednesday, January 12, Noon - 1:00 PM

Sign in early (after 11:30am) to meet presenters - stay late for an open discussion.

For more information, please contact: info@tonyzamora.com
To learn more about the SPE California Sustainability Study Group, visit our website

JOIN OR RENEW SPE MEMBERSHIP

Dear friends and fellow SPE members,

Wish you all Happy New Year! January is a typical time when we consider our intentions for the coming year. May I propose that we ring in the New Year by renewing our SPE Membership! Please **Click here to join or renew our membership:** SPE Members Home .

SPE is a great community where we network for friendship, learning and expand our circle for career and business opportunities. For some, it can be a place where we can develop or practice team work and leadership skills.

As a SPE member, we will also receive the following benefits!

- Attend local talks and events at discount
- Get 6 FREE SPE papers annually along with deeply discounted pricing on SPE content found on OnePetro.org.
- Free attendance to most SPE webinars
- Attend Conferences and Workshops with discounts
- Learn and discuss on SPE Connect! This is where SPE members can virtually communicate, exchange knowledge, and collaborate with other members from around the world
- Attend SPE Live that provide the latest news and technologies to help you adapt to the new normal and inspire new opportunities for growth.
- Listen to SPE Podcasts that feature interviews with industry experts about technical subjects and career advice,
- Get discounts at the SPE Bookstore
- Take advantage of a variety of discount programs, including:
    - Health, life, auto, and homeowner insurance plans that stick with you even if you change jobs.
    - Car rental discounts from Avis, Budget, and Hertz.
    - 10% discount on apparel or merchandise through Lands' End Business Outfitters.

Due Waiver: SPE offers a membership fee waiver for renewing members who are facing any of the following circumstances: Permanent Disability, Unemployment/Furloughed, Active military duty, Compulsory post-graduation military service. You will need to send a request to service@spe.org. Please note that this is limited to two consecutive years and this option is not available to new members.

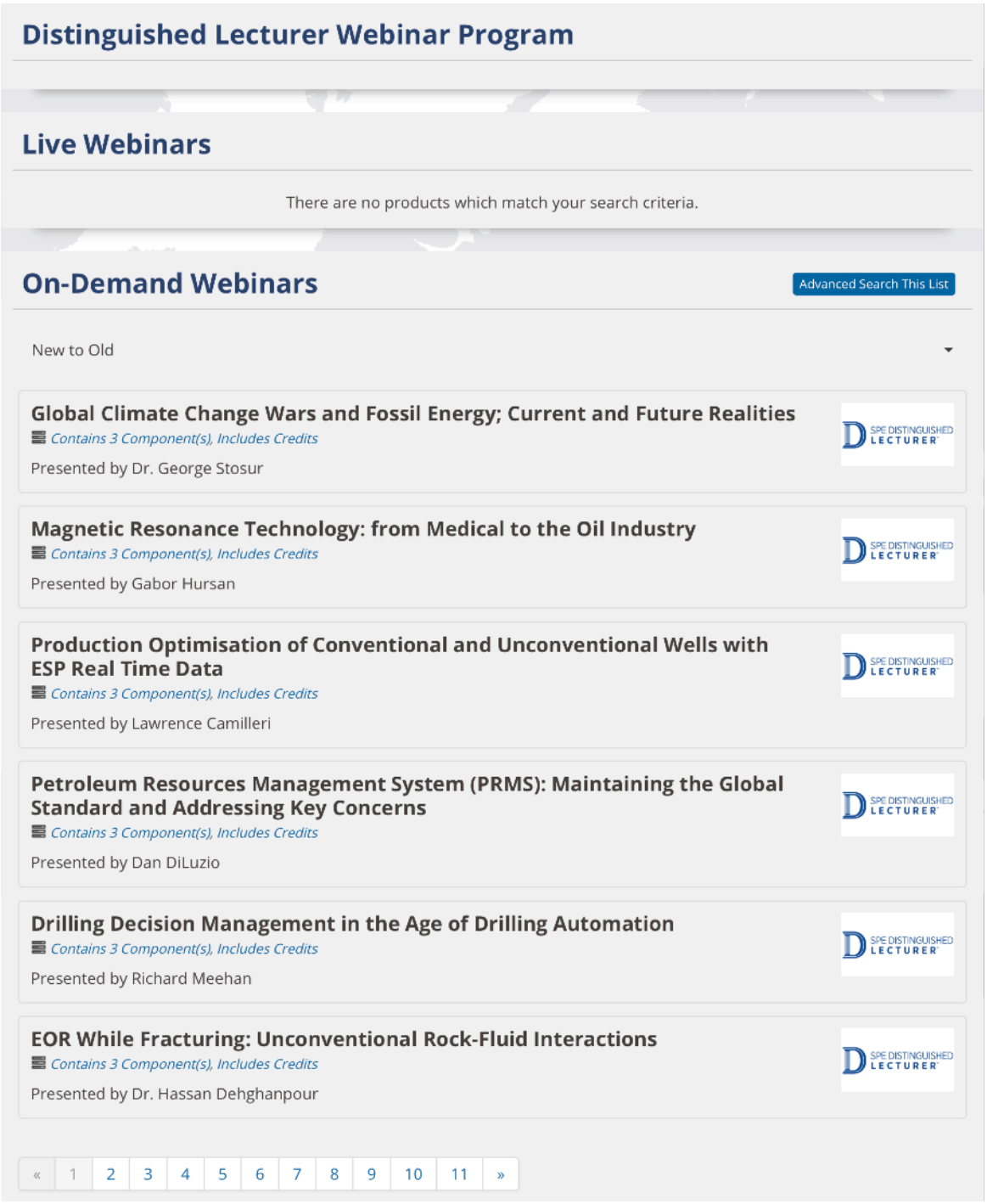
Students: your membership is free when you sign up for the SPE Student Dues Program sponsored by Chevron.

Please click now to join or renew your membership: SPE Members Home. As a member of the SPE Los Angeles Basin section, you will continue to receive this informative newsletter.

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



USC STUDENT CHAPTER EVENT

University of Southern California SPE Student Chapter

USC University of Southern California

Gorgon Project: A World-Class Development of Deep Water Gas in Australia by Steven G. Shryock, Former Subsurface Manager, Chevron Australia Pty Ltd.

Abstract:
The Gorgon Project has developed two deepwater gas fields off the northwest coast of Australia. Gas from the Gorgon and Jansz-Io Fields is gathered from 18 subsea wells through two pipelines back to Barrow Island where three LNG trains have been constructed at a total project cost of $54 billion. The plant is producing at the designed capacity of 15.6 MTPA of LNG. In addition to the LNG sales, the project delivers 300 TJ/d of gas to the domestic market. The highly deviated (80 deg.) big bore wells at the Jansz-Io Field were completed with open hole gravel packs and 9-5/8-in. tubing. Interference tests were conducted as these wells have initially flowed to the plant. For the Gorgon field, a high rate mono-bore design was employed with perforated 7-in. production casing and 7-5/8-in. tubing for the 270 MMSCFD production rates, where clean-ups were conducted with limited rate flow-backs to the rig. CO2 is removed from the Gorgon Field gas stream and reinjected into an aquifer beneath Barrow Island. Several technologies will be used to monitor the extent of the CO2 plume in the aquifer and ensure containment.The Gorgon project is one of the world's largest natural gas projects and constitutes the largest resource development in Australia's history.

Biography:
Steve retired from Chevron after working 38 years as a Petroleum Engineer, asset manager, and subsurface project manager. His experience includes gravel packing research, reservoir simulation, steam, and CO2 injection EOR, field development planning, and project management, with work assignments in California, Texas, Indonesia, Nigeria, and Australia, and extensive travel worldwide. Steve has BS & MS degrees in Petroleum Engineering from the University of Southern California. He is a Distinguished Member of SPE having received the Cedric Ferguson Medal in 1984.

Zoom Meeting ID: 975 4832 9785
Passcode: 575680
January 14th
12 PM to 1 PM PST

SELECTED SPE UPCOMING EVENTS 2022 - 2023

Date	Title
Jan 11*	Increasing Oil Production with Solar Generated Steam Steve Geiger / David Mercier, Innovation Partners
Feb 8*	TBA
Mar 8*	Impact of Climate Issues on the Energy Industry through 2050 SPE Distinguished Lecturer Philip Grossweiler, M & H Energy Services
April 12*	To Increase Production, Listen to Your Wells SPE Distinguished Lecturer Dr. Luis Quintero, Halliburton
April 22	LASPE Scholarship GOLF TOURNAMENT Los Serranos CC, Chino
	* 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
Feb 2022	1/17	1/24	1/28	Feb 1
Mar 2022	2/14	2/21	2/24	Mar 1
April 2022	3/21	3/28	3/31	April 1

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