

April 2022



## LOS ANGELES BASIN GEOLOGICAL SOCIETY

*April 28<sup>th</sup> (Thursday) – 11:30 AM*

*Live, IN-PERSON meeting*  
*Please come and support the LABGS*

**Patrick Hayes, Tracerco**

**EOR and CCS Tracer Applications: Measuring the present to prepare for the future**

### **Abstract**

The presentation will review new technologies developed over the past 15 years that have changed our industry's approach to drilling and completions as innovations in liquid chemical tracers continue to deliver improved efficiency and lower production costs. Many of improvements have been made through a measured and detailed understanding of the resource being exploited, the chemistry and geology involved to adapt and adjust to enhance reservoir performance as changes occur over the life of the asset. The same technology can be used in CCS (Carbon Capture & Storage) applications as well.

The use of enhanced oil recovery in existing fields has proven to be an essential tool for extending the life and improve the economics of known reserves. From the initial concept, pilot study, utilization of chemistry in mature assets, EOR efficiency questions need to be answered and the flow paths understood. Using case studies, Patrick Hayes, General Manager at Tracerco, will provide examples on how chemical tracers can be utilized to quickly help answer the

questions for remaining oil, CO<sub>2</sub> injection studies, polymers applications and water floods projects. All topics have enabled operations teams to adjust and increase production for a quick ROI and greater EUR.

Through these case studies the presenter will explore multiple tracer options used to understand and then improve hydrocarbon recovery. These case studies will show how tracers can be used for quantifying the distribution and flow paths of the EOR injection of water and gas assisting reservoir model refinements and guiding operational changes to provide immediate, very tangible return on water flood investments. A case study providing pilot ASP flood effectiveness and residual oil measurements will be included.

The presentation will finish up with discussions for the application of chemical tracers in CO<sub>2</sub> injection projects for CCS and other gas sequestration applications in old fields and other suitable reservoirs.

## Biographical

Patrick Hayes has more than 17 years with Tracerco performing various operational and managerial roles in the upstream and downstream services areas. He has worked in these business units to enhance client's production and help with gaining efficiencies. While working for Tracerco overseas, Patrick was responsible for the operations and management of projects in the North Sea, Europe, Middle East and parts of North and West Africa. Patrick managed the subsea and reservoir business teams and is now focused on the reservoir business development to work with operators to gain efficiency and better reservoir exploitation. He currently lives in South Texas.

### When:

**Thursday, April 28, 2022**  
**11:30-1:00**

### Meeting Agenda

Lunch Served: 11:30 AM to 11:45PM  
Announcements: 11:45 AM to 12:00 PM  
Guest Speaker: 12:00 PM to 12:45 PM  
Questions/Close: 12:45 PM to 1:00 PM

### Place:

**The Grand at Willow Street Conference Center** located at 4101 East Willow Street, Long Beach, CA (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (I-405), turn west onto Willow Street, and turn right onto Grand Avenue at the sign for the Center. Park for free in the multi-level garage structure.

### Cost:

Lunch and Speaker: \$30.00 with reservations  
**\$40.00 without reservations**  
Retired: \$25.00  
Student: \$10.00

**PAYMENTS IN CASH OR CHECK ONLY**

## Meeting Reservations:

**We encourage you to make your reservations using the LABGS web site, at [www.labgs.net](http://www.labgs.net). Then click the gray "Meetings" tab at the top of the page and use the "Make Reservation" button near the middle of the page.**

Or, call **Joseph Landeros** at 626-497-1710 or email him at [landerosjd@gmail.com](mailto:landerosjd@gmail.com)

**Reservations must be made by:**  
**10:00 AM Tuesday April 26<sup>th</sup>**

**to receive reservations discount price indicated above. (This will be strictly adhered to)**

***As always, walk-ins are welcome!***

**OUR WEB SITE ADDRESS:**  
**[www.labgs.org](http://www.labgs.org)**

## Announcements

**ELECTIONS:** We will have an election for a new President at our June meeting. Please send any nominations to Scott Prior (contact listed below).

**President:** This officer updates the monthly newsletter using the previous month's newsletter as a guide. Speaker information is supplied by the program chair (VP). The President forwards the newsletter to the Secretary for distribution to members. The president brings the projector to the live meetings and introduces the speaker. Zoom meetings are currently set up by the Financial Secretary who also makes the bookings for in-person meetings. This is a pretty easy job requiring about an hour of time each month. There are only 8 live meetings per year. The current President has been in this position for three years and would like to step aside for a time. The hand-off would take place at our September meeting.

**LABGS Board**  
**Contact Information:**

**President: Scott Prior**

(714) 495-0959

[7figmo@gmail.com](mailto:7figmo@gmail.com)

**VP & Programs: Chris Smart**

(559) 908-8981

[chrsmart@outlook.com](mailto:chrsmart@outlook.com)

**Treasurer: Francine Cason**

(562) 756-0270

[fcason5@gmail.com](mailto:fcason5@gmail.com)

**Secretary: Joseph Landeros**

(626) 497-1710

[landerosjd@gmail.com](mailto:landerosjd@gmail.com)

**Scholarships: Karla Tucker**

(714) 658-0474

[ktkr2@aol.com](mailto:ktkr2@aol.com)

**Webmaster: Joseph Landeros**

(626) 497-1710

[landerosjd@gmail.com](mailto:landerosjd@gmail.com)

**Do you know if your PSAAPG/LABGS  
membership is current?**

*If you don't know, please check via  
the PSAAPG website:*

<http://www.psaapg.info/cloud/miscellaneous/dues.php>

*Please inform a LABGS Board member  
if you have a pertinent announcement.*