



# San Joaquin Geological Society

**Date:** Tuesday, April 12, 2016

**Time:** 6:00 PM Social Hour  
7:00 PM Dinner  
8:00 PM Lecture

**Place:** Eagles Lodge  
1718 17<sup>th</sup> Street, Bakersfield, CA 93302

**PSAAPG Members & Mesozoics**  
\$25 with reservation  
\$30 without reservation

**Non PSAAPG Members**  
\$30 with reservation

**Full-time Students with ID:**  
\$10 - Courtesy of Chevron & California Resources Corp.

**\* RSVP \***

**By: Sunday, April 10, 2016**

PayPal on the Website:  
<http://www.SanJoaquinGeologicalSociety.org/>

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## ***The Belridge Giant Oil Field – 100 Years of History and a Look to a Bright Future***

Presented by: Malcolm E. Allan and Simarjit K. Chehal; Aera Energy, LLC

**Abstract:** April 2016 marks the 105th anniversary of the well that discovered the Belridge giant oil field in the San Joaquin Valley of California. The Belridge field, in California's Central Valley, was discovered in 1911 by drilling a shallow well at the site of an oil seep. The field is 45 miles WNW of Bakersfield and covers an area roughly 22 miles long and 2.5 miles wide. For the hundred plus years since then it has steadily produced oil from a range of reservoirs. From the 1930s to the 1980s, it had hundreds, thousands of wells on primary and steam production from traditional deep sandstone and shallow heavy oil reservoirs. Then, with the success of fracturing in the late 1970s, the unconventional diatomite reservoirs in the Monterey Formation were rediscovered and they will be the focus of the talk.

### **Biography:**

**Malcolm E. Allan** has just retired from the position of reservoir management geologist with Aera Energy LLC. He holds a B.S. degree in Geology and an M.S. in Petroleum Geology from Imperial College, University of London. He began working for Texaco internationally in Africa and the North Sea before joining Occidental Petroleum to work in South America, the Middle East, and North Africa. After a few years with a small Canadian company in Egypt, Colombia, and Ecuador, he returned to California in 1989. Since then Malcolm has worked mainly on two of the giant oil fields in California: Elk Hills and then the Belridge. He has spent the past 18 years working for Aera on the diatomite reservoirs at the Belridge field doing reservoir characterization and field studies. He is a California State Registered Geologist and a member of the SPE, AAPG, and the local chapter of the SPWLA.

**Simarjit (Simmie) K. Chehal** is a geologist with Aera Energy, LLC. She is involved in reservoir characterization studies and geological modeling for the diatomite team at Belridge and Lost Hills fields, California. Simmie holds B.S. degrees in Geology and Environmental Resource Management from CSU, Bakersfield, and an M.S. in Geology from CSU, Northridge. She is a member of the AAPG and SPE.

***We will "Pass the Hat" to benefit the Buena Vista Museum of Natural History & Science. Cash, Checks, or Credit cards are welcome!***

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