



San Joaquin Geological Society

Date:  **Tuesday, February 14, 2017** 

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

Place: **Eagles Lodge**
1718 17th 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: noon Monday,
February 13, 2017

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

or Reply to this email

 **This is our Annual February Spouse Night** 
 All Guests are Welcome 

Tectonics and the California Coast

Presented by: Alex Simms, Assistant Professor, Department of Earth Science, University of California, Santa Barbara.

Abstract: One of California's biggest draws is its nearly 1200 miles of scenic coastline. The distinctive features of this coastline are an excellent archive of past sea-level changes, tectonic uplift rates, storms, and in some places tsunamis. Marine terraces are the most common feature along the California Coast. Although these marine terraces provide excellent records of past uplift, it is the estuaries of the California Coast that host the best archives of past tectonic events, sea-level changes, tsunamis, and even storms. However, the biggest agents of coastal erosion to hit the California Coast are not caused by storms but earthquake-driven tsunamis and coastal subsidence. Many of California's coastal wetlands and estuaries undergo catastrophic sinking during large earthquakes. This process has long been known to impact the northern California coast but we provide some of the first evidence for a similar process occurring in southern California estuaries as well.

(See expanded abstract information on the web site <http://www.SanJoaquinGeologicalSociety.org/>.)

Biography: Alex Simms was raised in Oklahoma where he attended Oklahoma State University. Upon completing his BS in Geology at OSU, he went to work on a PhD at Rice University in Houston Texas. In 2005 he returned to Oklahoma State University as an Assistant Professor before coming to UCSB in 2010. His work focuses on coastal and shallow marine depositional systems and the records they hold of past sea-level, climate, and tectonic changes. He has published over 50 papers on his work along the Quaternary coasts of Texas, Antarctic, and California as well as the Permian Rocks of western Oklahoma.

SJGS WEBSITE

<http://www.SanJoaquinGeologicalSociety.org/>

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