



San Joaquin Geological Society

Date: Tuesday, February 9, 2016

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: Sunday, February 7,
2016**

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[http://www.SanJoaquinGeologic
alSociety.org/](http://www.SanJoaquinGeologicalSociety.org/)

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This is our Annual February Spouse Night

El Niño and Kern County: Past, Present (and Future?)

Presented by:

Sam Jameson, William "Chris" Krugh, Rob Negrini
Department of Geological Sciences
California State University, Bakersfield

El Niño is a climate/weather feature, recurring every few to several years that results in global effects including a one-to-two year-long, one-to-two tenths of °C of higher temperatures and, more notably, a shift to warmer ocean temperatures off of the Americas and higher rainfall as a result. This month's SJGS presentation will start with a broader explanation of how the El Niño/La Niña oscillation works, including the role of equatorial winds in the Pacific Ocean and the resultant "piling up" of a deep warm water pool in the western Pacific Ocean and the subsequent "sloshing" of that pool back across the Pacific Ocean toward the Americas. The global weather patterns expected over the typical cycle as a result of this process will then be presented as well as the observation that, overall, both warm El Niño and cool La Niña states are gradually getting warming in line with global warming over the past several decades.

Finally, we'll show features associated with one of the most notorious effects of the present El Niños on Kern County, the October, 2015 mudslide that closed area highways. Photos will be presented that Dr. Krugh's graduate geomorphology class visited the site soon after the event. As luck would have it, one of us experienced the mudflow in real time, driving the last vehicle westward on Highway 58 that made it through without getting stuck. So, you'll hear an eyewitness account as part of the presentation.

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