



October 2012

LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

October 25th (Thursday) Dr. Robert (Dan) Francis, Chair of the Department of Geological Sciences, CSULB.

will speak on:

“The integrated San Pedro Basin fault - San Diego Trough fault system, offshore southern California Inner Borderland”

Co-authors: Mark Legg, Chris Castillo, and Luke Shafer (Castillo and Shafer are former CSULB undergrads who have gone on to grad school).

Abstract

High-resolution seismic reflection profiling, augmented with legacy industry and USGS seismic data, as well as multibeam bathymetry images, indicates that the San Pedro Basin fault (SPBF) and San Diego Trough fault (SDTF) form a single 300km long fault major system within the Inner California Continental Borderland.

Seafloor terraces or benches around Santa Catalina Island suggest that the island has been subsiding for the last 150 ka or more. Other evidence indicates that Catalina Ridge and the island are a pop-up structure associated with a restraining bend along the San Diego Trough fault – Catalina fault system (SDTF-CF).

Stratigraphic sequences in San Pedro Basin, as well as information from the terraces, suggest that at some time between about 150 and 600 ka the SDTF-CF restraining bend became inactive, or at least less active, as displacement along the SDTF was transferred to the SPBF. Thus the current SDTF-SPBF system was formed. This would have slowed down or stopped the uplift of the pop-up, and led to a subsequent relaxation or subsidence of Catalina ridge. The SPBF-SDTF-CF system provides a well-documented example of how a fault can evolve to bypass or eliminate obstacles or asperities such as a restraining bend. It is likely

that such events have occurred repeatedly during the evolution of the Borderland

Speaker's Biography

Robert (Dan) Francis has been a professor at CSULB since 1987, and currently is Chair of the Department of Geological Sciences. Having received his PhD from Scripps Institution of Oceanography in 1980, Francis worked for Getty and Texaco in Houston before coming to CSULB. His interests center on petroleum geology, tectonic evolution of the offshore California Continental Borderland, and detachment faulting in the Great Basin, primarily in east-central Nevada.

Come and enjoy – Learn about the latest concepts regarding the Inner California Continental Borderland!

Meeting Time, Place, Cost and Reservations

Time:

Thursday, Oct 25th, 2012

Typical Meeting Agenda

Lunch Served: 11:30 AM to 12:00PM
Announcements: 11:45 AM to 12:00 PM
Guest Speaker: 12:00 PM to 12:30PM
Questions/Close: 12:30 PM to 12:45 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 (405), turn west onto Willow Street and turn right onto Grand Avenue at the sign for the Center. Park free in the garage structure.

Cost:

Lunch and Speaker: \$20.00 with reservations
\$25.00 without reservations
Student: \$5.00 (Lunch and Speaker)

Meeting Reservations:

Make your reservations using our web site at www.labgs.org, or by calling Graham Wilson (562)-326-5278, or emailing gwilson@shpi.net.
Reservations must be made by 10:00 am Tuesday morning prior to the meeting to receive the discount price noted above.

Los Angeles Basin Geological Association
Advertising Costs 2008-2009

Newsletter and SoCal website posting:

- Business Card size ad \$25/month \$230/year
- 1/4 Page \$45/month \$450/year

Website posting only: \$20/month



Contact Us – The LABGS Board

President: Bill Long (213) 225-0205

William.long@breitburn.com

VP & Program: Jean Kulla (949) 500-3095

k2mobile@MSN.com

Treasurer: Bert Vogler (562) 432-1696

hvogler@kleinfelder.com

Secretary: Graham Wilson (562)-326-5278

gwilson@shpi.net

Scholarships: Jean Kulla (949) 500-3095

k2mobile@MSN.com

OUR WEB SITE ADDRESS IS:

www.labgs.org

Student Sponsorship

Looking for Student Lunch sponsors. If you or your Business/Organization would like to become a Student Lunch Sponsor, please let us know.