



April 2011

LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

APRIL 28th (Thursday) Dr. Raymond V. Ingersoll, Department of Earth and Space Sciences, University of California, Los Angeles, California; **will speak on:**

Reconstructing Southern California

Abstract

Southern California is a critical component in paleotectonic models for: (1) the evolution of the USA-Mexico Cordillera; (2) the interaction of continental and oceanic plates; and (3) relations between subduction and transform processes during the Mesozoic and Cenozoic. Detailed palinspastic reconstruction of both offshore and onshore components of the diverse and complex settings of southern California is essential in order to test paleotectonic models for the evolution of the broader region. The unique geologic history of southern California can be described in terms of distinct phases of tectonic development, which resulted in corresponding distinct tectonostratigraphic sequences. Steep-slab subduction of the Farallon plate characterized most of the Cretaceous history of the southwestern USA, whereas flat-slab subduction characterized the Laramide orogenic event (80-40 Ma). As the subducting Farallon plate rolled back following the Laramide orogeny, the Pacific plate first came into contact with the North American plate in southern California soon after 30 Ma. Two triple junctions then traveled in opposite directions along the continental margin. The southern triple junction had a complex history, including three distinct stages of capture of Farallon microplates and contiguous parts of the North American margin by the Pacific plate. These three microplate-capture events resulted in transrotation (18-12 Ma), transtension (12-6 Ma), and transpression (6-0 Ma) in the Los Angeles region. Reconstructing this complex history is an extraordinarily challenging and rewarding endeavor.

Speaker's Biography

Ray Ingersoll is presently a Professor of Geology at UCLA in the Department of Earth and Space Sciences. He joined the staff at the University of California, Los Angeles in 1985. He received his undergraduate degree (A.B.) in Geological Sciences; cum laude in General Studies from Harvard University in 1969. He then continued on to obtain a M.S. in Geology and Ph.D. in Geology with distinction from Stanford University finishing up in 1976. Prior to him joining UCLA, Ray held a number of teaching positions at UC Berkley, University of New Mexico, Cal Tech, and USC, which included adjunct associate professorship with UCLA. Ray has made a profound impact in teaching, within our societies and the general geoscience community. He has been bestowed honors and accolades throughout his career, having received a number of awards pertinent to the AAPG society, including the A.I. Levenson Award for best paper (AAPG, Pacific Section); Distinguished Educator (AAPG, Pacific Section); and the establishment of the "Raymond V. Ingersoll Award for Outstanding Undergraduate Senior Thesis in Sedimentary Geology," created in 2010 by Pacific Section, SEPM (Society for Sedimentary Geology). He has participated in 37 major conferences and 43 other related activities. He has supervised Masters or PhD theses of 40 students and authored or co-authored over 125 publications.

Come and enjoy – this talk on the reconstruction of our state it is going to be very interesting!

Meeting Time, Place, Cost and Reservations

Time:

Thursday, April 28th, 2011

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: FREE (Lunch and Speaker)

Meeting Reservations:

Make your reservations using our web site at www.labgs.org, or by calling Becca Lanners at (562) 495-9310, or emailing Becca_Lanners@oxy.com
Reservations made prior to Tuesday before the meeting is appreciated, but reservations up to the morning of the meeting will be honored. As always walk-ons are welcome.

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<u>Newsletter and SoCal website posting:</u>		
• Business Card size ad	\$25/month	\$230/year
• 1/4 Page	\$45/month	\$450/year
Website posting only: \$20/month		
		

Students – Get those Scholarship Applications in by May 9!!

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