



Los Angeles Basin Geological Society Newsletter

November Meeting: Thursday, November 21, 2002

Dr. Gary Fuis of the USGS Will Speak On The Crustal Structure of the LA Basin As Interpreted From The Los Angeles Regional Seismic Experiment (LARSE)

Speaker Synopsis / Abstract

Dr. Gary Fuis received his Bachelors in Geology from Cornell in 1966, and his Ph.D. in Geology and Geophysics from Caltech in 1974. Dr. Fuis has been with the USGS since 1966. He was Scientist-in-Charge of the Southern California Seismic Network from 1974-1978, during which time he oversaw the expansion and development of the Network. His recent work includes seismic imaging and geologic/tectonic interpretation of a number of continental transects, including those in the Imperial Valley, California, northeastern California, Alaska, California-Arizona, the Los Angeles region (LARSE).

The Los Angeles Regional Seismic Experiment (LARSE) was a seismic refraction and reflection survey along a transect that extended from Seal Beach, California, to the Mojave Desert, crossing the LA and San Gabriel basins and the San Gabriel Mountains. The main result of the survey is a cross-section of the crustal structure of southern California with important implications about local tectonics and earthquake hazards. For example, the results suggest that the maximum depth of the basin along the transect is about 9-km, and the Duarte branch of the Sierra Madre fault in the northern San Gabriel Valley forms a buried, 2.5-km high, moderately north-dipping buttress between the sedimentary and volcanic rocks of the San Gabriel Valley and the basement rocks of the San Gabriel Mountains. There are active crustal decollements in southern California. At middle-crustal depths, the Sierra Madre fault zone appears to sole into a master decollement that terminates northward at the San Andreas fault and projects southward beneath the San Gabriel Valley to the Puente Hills blind thrust fault. The San Andreas Fault dips steeply northward

and extends at least to the Moho. The Pelona Schist underlies much of the San Gabriel Mountains south of the San Andreas Fault to middle-crustal depths, and is seemingly not present north of the fault. (after *Geology*, Jan. 2001).

Time, Place, And Cost

Time:

Thursday, November 21, 2002

Meeting Agenda

Lunch Served: 11:30 AM to 12:00PM

Announcements: 11:50 AM to 12:05 PM

Guest Speaker: 12:05 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: **\$17.00 with reservations**
 \$20.00 without reservations
Student: **\$ 6.00 (Lunch and Speaker)**

Reservations Are Essential

Please note the change in reservation policy and make your reservations with Mike Mills by Tuesday, November 19. Phone: (714) 220-9138 Ext. 13 or e-mail Mike at MILLSLABGS@HOTMAIL.COM

LABGS Future Meetings

Lunch meetings are held at *The Grand at Willow Street Conference Center*. Lunch starts at 11:30 AM

Fall / Winter Schedule 2002 - 2003

November 21, 2002

Gary Fuis – *Crustal Structure of the LA Basin*

December 2002

No Meeting – **HAPPY HOLIDAYS**

January 23, 2003

Mark Legg – *New surprises in the offshore California Borderland*

February 27, 2003

Bjorn Paulsson / Karen Blake – *Imaging the Wilmington Oil Field Structure*



The LABGS is Hosting the 2003 PSAAPG / SPE-WR convention Long Beach, CA

Yes it's true, the LABGS along with the LA basin section of the Society of Petroleum Engineers will be hosting The 2003 Pacific Section AAPG Convention and Western Regional SPE Meeting. The meeting will be held at the Hilton Hotel in Long Beach, California with technical sessions running from May 21-23, 2003.

Luncheon Meeting Student Bonus

The first five (5) students to show up for the luncheon meeting will have their meal costs paid for courtesy of Mike Mills and Pacific Soils Engineering and the LABGS. In addition, **all students** attending the LABGS meeting will receive a free SEPM publication courtesy of the Pacific Section SEPM.

What does hosting a convention mean you ask? It means we have a responsibility to welcome the PSAAPG and help make the convention a success. For doing this, we should get rewarded with additional income (from the convention) so we can provide scholarships, quality programs, and services to our members and community.

Announcements / Information

AAPG House of Delegates Needed

Two of our four *House of Delegates* to AAPG are open. If you are a national AAPG active member and are interested in filling this vital position please contact Dalton Lockman. [These are vital positions to the leadership for the AAPG, and for the future of the LABGS.](#)

This joint conference of petroleum engineers and geoscientists should present a stimulating forum for the exchange of ideas and innovations across disciplines. If you would like to help out with the planning please contact Dalton Lockman.

LABGS Web Site Under Construction

The LABGS is finally moving into the digital era. Ivan Aburto, our secretary is currently working on our Web Site and is targeting to have it up and running by the first of 2003. This web site will be a great place to keep informed over what is going on in the LABGS. The web site will not replace our newsletter but will provide a place to retrieve past issues.

Call For Papers

The Pacific Section of the American Association of Petroleum Geologists and the Western Region of the Society of Petroleum Engineers will once again join forces 21-23 May 2003 in Long Beach, California. Continuing with the tradition of combined AAPG-SPE meetings (Long Beach 2000 and Anchorage 2002), a technical program will be assembled to maximize appeal to both geoscientists and engineers.

The theme of the meeting, *LA Basin: Original Urban Oilfield Legend*, has been chosen to highlight one of the meeting's primary focus areas: parallel discovery and development of subsurface and surface resources.

Numerous technical presentations, symposia, forum topics, short courses, and poster sessions will be devoted to other west coast-oriented aspects of geoscience and petroleum engineering as well.

Geoscientists and petroleum engineers will be able to acquire technical and practical benefits by participating in this combined conference, where the exchange of ideas and innovations should stimulate cross discipline communication and action. **Help us make this meeting a great technical success by documenting and sharing some of your best work**—details regarding abstract submission for an oral paper or a poster presentation can be viewed on the web at www.psaapg.org or by contacting:

John Cooper PSAAPG Program Chair (714) 278-2662 jcooper@fullerton.edu,

Glenn Swanson SPE Program Chair (562) 595-6440 gswanson@shpi.net,

We are seeking papers in (but not limited to) the following technical categories:

- Development of turbidite reservoirs
- Turbidite depositional systems
- Recent development of oil and gas fields in the LA Basin
- Offshore West Coast Symposium: update on California Exploitation
- Reservoir characterization and modeling
- Seismic developments in urban areas
- Elk Hills Development Symposium
- Geoscience and petroleum engineering education
- Advances in Formation evaluation: maximizing mature reservoirs
- Sequence Stratigraphy and basin analysis
- Chert formation along the Pacific rim
- Compressional tectonics/structural trends along active margins
- Compressional tectonics/ structural trends in the LA Basin
- Fault seal, pathways, and fluids
- Production geochemistry applications and integration into geology
- Geology information systems
- Oil and gas field in the western Transverse Ranges
- Southern California Borderland
- Environmental geology

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Center for Studies of Los Angeles Basin Subsurface Geology

The Center has gathered significant data from several sources in recent months and has this data available for you to use. The Center is located on the campus of CSULB, so come check it out! Contact: Dan Francis (562) 985-4929

This is a non-profit center – donations of money, volunteers and data are always needed. *Make Checks out to CSULB Foundation, and be noted to the Geology Department or the Data Preservation Project.*

Contact Us – The LABGS board

President: Dalton Lockman (323) 298-2242
dlockman@stockerresources.com

Vice President: Mike Mills (714) 220-9138, ext. 13
millslabgs@hotmail.com

Treasurer: Kristi Darby (213) 225-5900
kdarby@breitburn.com

Secretary: Ivan Aburto (213) 225-5900
iaburto@breitburn.com

Your Name Here!

Advertising in this newsletter is now available!

Advertising rates for a business card size add are \$60.00 for six issues. These fees help offset our publishing costs.

If interested, please contact Dalton Lockman



Los Angeles Basin Geological Society Membership Form

Join the LABGS and become a member of the Pacific Section AAPG all for one low price of \$12.00 per year - 2 West Coast Geoscience Organizations for the price of one



Membership Benefits

- LABGS Membership
- Monthly Luncheon Meetings with Strong Technical Programs
- Pacific Section AAPG Membership
- Pacific Section AAPG Bi-Monthly Newsletter
- Discounts for PSAAPG Bookstore Publications
- Bi-Annual West Coast Geoscience Directory - *next edition 6/03*
- Networking / Social Opportunities with Fellow Geoscientists

Current Annual LABGS/PSAAPG Dues

1 Year Option = \$12.00	\$
3 Year Option = \$36.00	\$

Extended E-Mail Announcement List Fees

To receive meeting notices from SJGS and CGS

1 Year Option = \$12.00	\$
3 Year Option = \$36.00	\$

PSAAPG Foundation Contributions

B. Hacker Publication Fund	\$
Martin Van Couvering Fund	\$
Dibble Map Foundation	\$
California Well Sample Repository	\$
John Kilkenny Scholarship Fund	\$
PSAAPG Foundation Trust Fund	\$

TOTAL PAYMENT

Total Amount Enclosed	\$
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Essential Member Information

Last Name	_____
First Name	_____
Middle Initial	_____
E-Mail Address	_____
Mail Address	_____
Res or Bus ?	_____

Additional Directory Information

Employer	_____
Position / Title	_____
Bus Phone #	_____
Res Phone #	_____
Fax Phone #	_____
Spouse's Name	_____
Education	Highest Degree _____ Year _____
School	_____

Signature _____

Annual membership is handled through PSAAPG and runs from July 1, through June 30.. If you are already a current member of PSAAPG and you selected LABGS affiliation you are already a member of the LABGS.

**Please Make Checks out to PSAAPG and mail along with member form to:
PSAAPG P.O. Box 1072, Bakersfield, CA 93302**