



Los Angeles Basin Geological Society Newsletter

Dr. Kenneth Hudnut will Speak on Studying Earthquakes Using GPS and Other Emerging Technologies

Thursday, September 26, 2002

Speaker Synopsis

Dr. Kenneth W. Hudnut will speak on Studying Earthquakes Using GPS and Other Emerging Technologies

Dr. Hudnut, of the USGS, co-founded and chairs the Southern California Integrated GPS Network (SCIGN). He received his Bachelor's degree from Dartmouth College in 1983 and his Ph.D. from Columbia University in 1989. For the past ten years he has been studying southern California's earthquakes using GPS at the USGS Pasadena office, and is also a Visiting Associate in Geophysics at the Caltech Seismological Laboratory. Dr. Hudnut has authored or co-authored over 60 scientific articles, including the subjects of fault interaction and earthquake triggering, and crustal deformation associated with recent earthquakes in southern California.

SCIGN consists of a network of 250 continuously operating Global Positioning Stations (GPS) that monitor real-time small (less than a few inches) ground motions throughout southern California with the major objectives of: 1) measuring crustal plate movements to better estimate earthquake potential; 2) identifying active blind thrust faults and test models of compression tectonics in the Los Angeles area; 3) measuring local strain rates that might reveal the mechanical properties of active faults; and 4) in the event of an earthquake, measuring permanent crustal deformation not detectable by seismographs. In addition, SCIGN is useful for monitoring of subsidence or uplift resulting from fluid withdrawal/injection in the Los Angeles basin, and as a replacement of old survey benchmarks that have shifted in this actively deforming region.

Dr. Hudnut will discuss the details of the SCIGN system using examples of recent SCIGN data, which includes an update on the true motions of the Pacific and North American Plates. He will also address the resultant crustal strain, including several possible models of compressional deformation of the Los Angeles area.

Time, Place, And Cost

Time:

Thursday, September 26, 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, September 24. 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 Schedule 2002

September 26, 2002

Dr. Ken Hudnut – *Studying Earthquakes Using GPS and Other Emerging Technologies*

October 24, 2002

To Be Announced

November 21, 2002

To Be Announced

December 2002

No Meeting

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.

Announcements/Information

Election Results 2002 – 2003 LABGS Officers

We are pleased to announced the results of the June LABGS officer election: President – Dalton Lockman, Vice President (program Chair) – Mike Mills, Treasurer – Kristi Darby and Secretary – Darrin Arthur. Unfortunately (for the LABGS), Darrin, a Marine reservist, was called to active duty and is on assignment for one year. He resigned in August leaving the Secretary position unfilled. Therefore, we are looking for a volunteer to take over the position. The main responsibility is gathering information and putting together the newsletter.

Also, 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.

LABGS Goals for 2002 - 2003

The LABGS officers have articulated our 2002 – 2003 goals. They are summarized into the four points below.

1. Provide an environment for networking and connecting with fellow geoscientist working in the LA Basin. This is carried out in the form of our luncheon meetings, field trips and our monthly newsletter.
2. Encourage student involvement in the society from the local colleges and universities. This is done through financial support to attend our monthly luncheons, and scholarships. We are currently working to budget additional annual scholarships to be awarded each spring.
3. Encourage K-12 teacher support via program funding and the PSAAPG Teacher of the Year Award program.
4. Provide technical presentations for professional growth on topics relevant to the geoscientist working in the LA Basin and the world. We currently hold our monthly meetings the forth Thursday of the month, Except in December, July and August where we conduct no meetings. During November we meet on the third Thursday of the month.

We would like everything that we do to be done with excellence. Therefore, our list may look short. However, as we get more help and grow, we can expand our roles and take on more.

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California Registered Geologist #634
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AAPG Energy Resources Library

The AAPG Foundation Library was founded to assist geologists obtain geoscience literature information, particularly as it pertains to the exploration of hydrocarbons. The Library with over 4000 volumes of books, journals, and non-print material is now available for online title searching

If you haven't used the services of the AAPG Foundation Library, we encourage you to give it a test drive. You can search the new library database by going directly to the foundation library web address at: www.aapg.org/foundation/library/index.html. Once there, look for the *Impact Online Book Search* link. If you don't find what you are looking for in the Library database (AAPG Holdings), you can expand your search to encompass all of the libraries within the system.

Additional services include geological database searches and reference work. Photocopies can be made and in certain cases electronically transmitted. If the foundation doesn't own the publication, an inter-library loan request will be made.

If you have problems, the staff at the library can assist you over the phone at (918) 560-2620)

LABGS Membership / Mailing List

Become a member of the LABGS: Fill out the attached membership form and mail it in or better yet bring it to the next meeting. This will ensure you are on our lists and the only way you can request a hard copy through the mail. The use of E-mail is our preferred method of distribution so please make sure we have your address.

If you are a current member in good standing with the Pacific Section AAPG, and have selected your affiliation with the LABGS, you are on our mailing list. We ask that you register your e-mail address with us, so we can E-mail you our newsletter. To register, please send Mike Mills your e-mail address at MILLSLABGS@HOTMAIL.COM. Include your name, address, phone number, and e-mail address. Currently, we have about 250 out of approximately 500 of you in our e-mail file.

Our goal is to provide a value added service to the geologic community of the LA area at a reasonable cost.

If you join the LABGS you also become a member of the PSAAPG. The purpose of this is to reduce waste and duplicated effort. Check out the membership form for a list of the dual membership benefits.

Renew Your Annual Dues

The Pacific Section operates on a fiscal year from July to July. Therefore, renewal of your PSAAPG/LABGS membership should have been paid this summer. If you still haven't done so, take this opportunity to send in a check and update your mailing information. New directories will be printed in the spring of 2003, so it is important to get any corrections in soon. (By the way, the directory is one of the key benefits of joining the LABGS through PSAAPG)

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.*

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.

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.

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.



Message From the 2003 Convention Technical Program Chairpersons

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

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

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 or Mike Mills



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	<i>Highest Degree</i>	<i>Year</i>
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**