



January 2004

Los Angeles Basin Geological Society Newsletter

January Meeting: **Ed Marks – Marks and Associates** Will speak on **Bio-steering into the Monterey**

Speaker Synopsis / Abstract

Ed Marks, a Certified Paleontologist, has over 45 years of both domestic and international experience in the fields of Geology and Paleontology and the related disciplines of Biostratigraphy, Lithostratigraphy, Palynology and Paleoecology. In exploring for oil and gas, he has worked and supervised geological and paleontological operations in the North American West Coast and, Gulf of Mexico, in South American Peru, Colombia and Ecuador, in the Far East, Indonesia and Malaysia, and offshore Africa in Madagascar. For the past 17 years, he has operated a paleontological and geosciences laboratory as Marks and Assoc., focused on hydrostratigraphy, fault and paleontological mitigation, oil and gas exploration, and paleoecology projects from Santa Cruz County to San Diego County, Calif. He has taught full time and served as adjunct faculty in earth sciences and geology at CSU, Fullerton, Cal Poly Pomona and Chapman University. He is an adjunct Professor at CSU, Long Beach, aiding in organizing the Southern California Well File Repository. For many years, Ed worked as a geologist and paleontologist for International Petroleum Company and for UNOCAL Corp. Mr. Marks, a volunteer with the Orange County Natural History Museum, has taught since 1987 the Micro-Pals paleontological programs for young people. He is the current president of the Southern California Paleontological Society and the Orange County Engineering Council.

Bio-steering is the use of fossils, especially microfossils, to help steer the Geologist towards finding more hydrocarbons and water. By use of First Appearance Datums and Last Appearance Datum of fossils, we set parameters to discern between beds of rocks above, within or below oil-, gas- or water-producing reservoir rocks. By

use of known habitats of plants and animals, we can discern between beds of rocks that are deposited upslope, within or down slope from oil, gas or water producing reservoir rocks.

Knowing superposition of rocks, where the oldest rocks are deposited on the bottom and the younger rocks are deposited above older rocks, we can set up a system where the oldest fossils are correlated into the rocks and the youngest ones are on top. By doing so, we set up guidelines to lead us to the oil-, gas- or water-producing reservoirs.

Knowing where plants or animals live, where certain ones live upslope, some within and others down slope of reservoir conditions, provide clues as to where the best environments for oil or gas reservoirs may be found. This knowledge can provide information to cut costs, reduce risk and cut environmental concerns in drilling for hydrocarbons.

Applying this information entails knowledge of many fossil forms, including Protozoan Foraminifera and Radiolaria, Algal plants such as Diatoms and Nannoplankton, plant pollen and spores, Arthropod Crustacean Ostracodes, fish and other forms found under the microscope. Collecting the evidence involves processing well and surface samples, examining them under the microscope, and extracting the useful ones as evidence for the age and environment of the rocks. Displays are made to determine index fossils and pinpoint the beds above, within or below reservoir rocks.

Examples are presented from Monterey rocks in the Los Angeles Basin, the San Joaquin Valley and the Santa Barbara-Ventura area, with illustrations of the producing zones and their fossil markers. The goals are to find hydrocarbons and water, to cut costs, reduce risk and cut environmental concerns by not drilling needlessly.

Time & Place

Time:

January 22, 2004

Typical Meeting Agenda

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

Announcements: 11:50 AM to 12:15 PM

Guest Speaker: 12:15 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

Cost:

Lunch and Speaker: **\$17.00 with reservations**
 \$20.00 without reservations
Student: **\$ 5.00 (Lunch and Speaker)**

Reservations:

Make your reservations using our web site at www.labgs.org, emailing iaburto@breitburn.com or calling Ivan Aburto at (213) 225-5900 ext. 234. **Reservations must be made prior to Tuesday** before the meeting.

LABGS Future Meetings

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

2004 Winter Speaker Schedule

January 22, 2004 – Ed Marks

Bio-Steering into the Monterey Formation

February 26, 2004 – Dr. Robert Crippen - NASA

Space Shuttle Radar Topography and it's Application – 3D presentation

March 25, 2004 – TBA

TBA

Announcements / Information

LABGS Teacher of the Year Award Wins the 2004 National AAPG Award

Mike Fillipow, the winner of the LABGS 2003 award for Excellence in the Teaching of Natural Resources in the Earth Sciences, was recently named the National AAPG Teacher of the Year award winner. The LABGS entered Mike for the 2003 Pacific Section AAPG Teacher of the Year award in May where he was named their recipient during the PSAAPG meeting in Long Beach. Mike was awarded \$500 and became the PSAAPG entry into the 2004 national AAPG contest. The National award is a \$5000 cash award and includes an all-expenses-paid trip to Dallas, where he will receive the award at the all-convention luncheon in April.

Mike is a science teacher for 11th and 12th grades at Long Beach Polytechnic High School. Mike teaches geology classes as an upper division science elective. This class is open to all students attending Long Beach Poly. The goal of his course is to introduce geology to the students and provide an appreciation for the earth and its resources.

WE'LL BE THERE



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LABGS T-Shirts on Sale at the January Meeting.

The Board has decided to sell LABGS T-Shirts to generate additional funds to help support our scholarship and field trip activities. Up to now, T-shirts with our new logo have only been available to those winning our luncheon meeting raffle. The shirt will display the LABGS logo on the Back with the words "LA Rocks" on the Front. The Price for shirts will be \$15.00 and available only at our luncheon meetings. Sizes will be limited to Medium, Large, and Extra Large.

Mark your Calendar for the 2004 Pacific Section AAPG Meeting

The Pacific Sections of AAPG, SEPM, and SEG are planning for their annual meeting in 2004, which will be held in Bakersfield, May 8 – 12. The theme will be "More Energy from Proven Basins: Looking for More in 2004". Even though the Call for Papers deadline has past (12/31/03), you can still get on the schedule (if you hurry) to publish your work. Consider documenting and sharing some of your geologic work in the form a poster or oral presentation. For more information and a copy of the abstract submittal form, go to the www.psaapg.org web site and visit the "convention" tab.



Catalina Schist and the Palos Verdes Peninsula Field Trip Date Set

Saturday June 26 is the scheduled date for the 2004 LABGS Annual field trip. **Dick Brown** has organized a planning committee for a trip to the Palos Verdes peninsula. A comprehensive guidebook is being put together which will include new material on the area. If you are interested in contributing to the guidebook or helping out with logistics, contact Dick at (562) 598-0595.

Use the LABGS Web Site to Keep Track of Earthquakes

If you didn't know our web site has link set up to access other sites you may want to visit on a semi or occasional basis such as recent earthquake data. Just click on Geology 101 and recent earthquakes to get up to the minute earthquake information. Our web site may be accessed at www.labgs.org. It is also a great place to keep informed over what is going on in the LABGS. We recently placed some additional information about the LABGS it more useful to you our members and perspective members. If you have any suggestions for improvement, please contact any of our board members.

Contact Us – The LABGS board

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

Program Chair: Javed Azam (310) 320-4982
javada@lkggroup.com

Secretary: Ivan Aburto (213) 225-5900, ext. 234
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Treasurer: Steve Zigan, (949) 355-4467
szigan@eri-us.com

OUR WEB SITE ADDRESS IS:
www.labgs.org

LABGS Membership / Mailing List

Become a member of the LABGS and enjoy the benefits of dual membership. If you join the LABGS you also become a member of the PSAAPG and vice versa. Check out the membership form for a list of dual membership benefits.

DAVID B. DEL MAR

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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 and 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 \$ _____

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**