



January 2005

# Los Angeles Basin Geological Society Newsletter

## January Meeting: Stephen Jacobs

Will speak on

### THE PEISTOCENE OF THE PALOS VERDES PENINSULA

#### Speaker Synopsis / Abstract

*Stephen E. Jacobs, RG, CEG has been practicing engineering geology since 1979. He has worked on a variety of projects throughout California, Nevada and Arizona involving geologic and geotechnical investigations for residential and commercial developments and litigation studies, fault investigations, seismic hazard and groundwater studies, and geologic inspections for feasibility of residential purchase.*

*Steve received his B.S. degree in Geology in 1971 at the University of California at Los Angeles and a M.S. degree in geology with a specialization in paleontology in 1973 at the University of Nebraska-Lincoln. He received a second M.S. degree with a specialization in engineering geology in 1982 at California State University, Los Angeles*

*Steve has published several articles and abstracts on paleontology, landslides, geologic structures, and tsunami deposits, and has prepared several geology field trip guidebooks. Current research includes studies of the paleontologic history and Pleistocene of the Palos Verdes Peninsula. He is a member of the Geological Society of America, Association of Engineering Geologist, San Diego Association of Geologists, Los Angeles Basin Geological Society, and South Coast Geological Society.*

The Palos Verdes Peninsula in Los Angeles County, California has provided some of the richest collections of Pleistocene marine invertebrate fossils in the entire world. Most of the classic exposures are now gone or greatly reduced in outcrop area due to residential and commercial development. Exposures of Pleistocene sediments have been abundantly described in the geologic literature during the past ~150 years, but only a few exposures are still accessible. The important

surviving exposures are at John S. Gibson Highway, 2<sup>nd</sup> Street, Timms Point and Knoll Drive in San Pedro, Richard R. Ball Quarry in WALTERIA and Chandler Quarry in Rolling Hills Estates. Chandler Quarry, which will soon be covered by encroaching residential development, now contains perhaps the most spectacular exposure of the San Pedro Sand and Palos Verdes Sand. San Pedro Sand, here, is about 125 feet thick. Palos Verdes Sand in Chandler Quarry is unusual, because it has the thickest known section (~30 feet) in the Palos Verdes Peninsula with several recognizable sub-units well exposed.

Pleistocene deposits that mainly occur along the northern flank of the Palos Verdes Hills and in San Pedro consist of middle Pleistocene Lomita Marl, Timms Point Silt and San Pedro Sand unconformably overlain by upper Pleistocene Palos Verdes Sand. Lomita Marl contains a fossil assemblage dominated by abundant mollusks and foraminifers indicating outer sub-littoral, moderately deep cool water in the lower beds and warm shallower inner sub-littoral water in the upper beds. Timms Point Silt contains an assemblage of abundant mollusks and common foraminifers indicating deposition at depths greater than 92 meters in cool water. San Pedro Sand contains a scattered assemblage of common mollusks indicating deposition at a depth of 92 meters near base, to about 18-27 meters at top in a mostly deltaic environment. The overlying Palos Verdes Sand contains very abundant mollusks indicating deposition at depths ranging from 0 to 27 meters, which is inner sub-littoral. Of the approximately 13 terraces that step up the Palos Verdes Hills, only the youngest and lowermost two or three terraces have provided the prolific fossil finds.

Recent photographs of some of the remaining exposures and some of the fossil content will highlight this talk.

Visit the LABGS at [www.LABGS.org](http://www.LABGS.org)

## Time & Place

### Time:

**Thursday, January 27, 2005**

### 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: \$20.00 with reservations**

**\$23.00 without reservations**

**Student: \$ 5.00 (Lunch and Speaker)**

### Reservations:

Make your reservations using our web site at [www.labgs.org](http://www.labgs.org), emailing [iaburto@breitburn.com](mailto: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

### 2005 Speaker Schedule

January 27, 2005 – **Stephen Jacobs, Consulting Geologist**

**The Pleistocene of the Palos Verdes Peninsula**

February 24, 2005 – **TBA**

March 24, 2005 – **TBA**

## Announcements / Information

### **Be Advised:**

### **The Luncheon Cost Increased to \$20.**

In October, the Los Angeles Basin Geological Society Board of Directors increased the fees we charge for our monthly meeting. The increase is necessary to offset the cost of the luncheon and allow us to sponsor students attending the meeting to pay only \$5. The board discovered that \$20 is in line with luncheon conducted by similar organizations. We hope this modest increase doesn't cause anyone to stop coming each month



### **Guidebooks from the 2004 LABGS Field Trip Examining the Catalina Schist and the Palos Verdes Peninsula are now on sale!**

**The guidebook will be available at the LABGS meeting on January 18, 2005.** The cost of the guidebook is \$20. The book is 179 pages and printed in color. There is enough detail to allow you to recreate the trip on your own. The Guidebook was edited by Dick Brown who organized and led the trip on June 26, 2004. You may also purchase a copy by contacting Dick Brown, via email or by phone (see list of contacts, this newsletter). **Photos of the trip are now posted on our web site at [www.labgs.org](http://www.labgs.org). Check them out!**

### **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*

## LABGS T-Shirts NOW ON SALE

The LABGS sells T-Shirts to generate additional funds to help support our scholarship and field trip activities. These will make a great Christmas gift for those who have everything. The shirt display's the LABGS logo on the Back with the words "LA Rocks" on the Front. The Price for shirts are \$15.00 and available at our luncheon meetings or by contacting Ivan Aburto (see contact list in this newsletter). Sizes are limited to Medium, Large, and Extra Large. **Buy one at the January Meeting!**

## Nominations being taken for the 2005 LABGS Teacher of the Year Award

The Los Angeles Basin Geological Society is pleased to offer a Teacher of the Year award as a form of encouragement and recognition to those teachers who show dedication and passion to the field of Geoscience. It is our goal to spur teachers and future geoscientists on in their pursuits. If you know of any deserving teacher, you may nominate them by going to our web site, [www.labgs.org](http://www.labgs.org) for a nomination form. **Nominations close February. 21, 2005 so don't delay.**

### Award Description and Requirements

#### *Award for Excellence in the Teaching Of Natural Resources in the Earth Sciences*

This award is intended to recognize and encourage excellence in teaching earth science at the K-12 level. It consists of a \$250 cash gift (for the teacher's discretionary use), and is given to an outstanding K-12 earth science teacher in the Los Angeles Basin area. Funding for this award comes from the Pacific Section of the American Association of Petroleum Geologists, our parent organization.

This is an annual monetary award that is presented to the Kindergarten through 12th Grade Teacher who best employs and furthers the knowledge of the earth sciences to students, or who has designed a curriculum that emphasizes the teaching of geology or related natural science subjects.

Teachers in the Elementary, Middle School (Junior High), or High School level may nominate themselves or be recommended by a colleague. The requirements are listed here:

- 1) A minimum of three full years of full-time teaching experience at any level K-12.
- 2) Teaching at least one unit per year on natural resources. Natural resources are defined as Earth materials used by civilizations past and present, such as:
  - a) Inorganic substances found in the Earth; water, mineral ores, building stone, aggregate, rocks and sediments.
  - b) Organic materials such as oil, gas, coal, and soil
- 3) Teaching should include scientific study of these resources, their origin, discovery, extraction, and historical and present uses. It should also include the preservation of the environment, reclamation and the conservation of resources.
- 4) Entries must include a statement of the teacher's philosophy of the teaching of natural resources, a description of the unit with outline, Vita, and two letters of recommendation: one from a colleague and one from an administrator.
- 5) The unit will be evaluated on depth and breadth of concepts (resource origin, discovery, processing, usage, and reclamation), creativity of presentation, and balanced treatment of information regarding societal needs and environmental issues.



## BAY, BASINS, BASEMENT & BEYOND

### Mark your Calendar for the 2005 Joint Meeting of the Pacific Sections of AAPG, SPEM, SEG and the Cordilleran Section of GSA

The Pacific Sections of AAPG, SEPME, SEG and the Cordilleran Section of GSA are planning for a combined annual meeting in 2005, which will be held in San Jose, CA April 29 - May 1. The theme is "Bay, Basins, Basement, and Beyond". This will be a most impressive meeting of geoscientists from all over the western US. Abstracts are being accepted until February 1, so consider documenting and sharing some of your best work. For more information on the scheduled program and a copy of the abstract submittal form, go to the [www.psaapg.org](http://www.psaapg.org) web site and visit the "convention" tab.

## CD VERSION

Buy It  
Today

### Neotectonics and Coastal Instability, Orange and Northern San Diego Counties, California

*2000 PSAAPG and WRSPE  
Field Trip Guidebook*

The LABGS is pleased to offer in CD Format, a scanned version of the original field trip guidebook "Neotectonics and Coastal Instability of Orange and Northern San Diego Counties". The original hardcopy volume was as the guidebook for the PSAAPG / WRSPE joint field conference held in Long Beach in 2000 and only provided to those in attendance. In this CD release, the editors have scanned all the maps and charts and included them with the technical reports that influence the interpretation of the neotectonics and coastal instability of Orange and northern San Diego counties. **The cost of the CD version is \$28.00 at our luncheon meetings. You can also order directly from the PSAAPG web site at [www.psaapg.org](http://www.psaapg.org). The cost from PSAAPG is \$30. Proceeds of the sale go to the LABGS and PSAAPG.**

### Call for LABGS Annual Field Trip Idea and Leader Spring / Summer 2005

Our annual field trip is in need of a leader and a topic. The board is soliciting ideas for a 1-day trip this spring. Trip logistics will be handled by a committee, but a leader is needed to organize the geological portion of the trip. Please contact, any of the board members if you have ideas or you want to lead a trip. The board will be moving forward in January to select a trip.

**Tom Dibblee  
1911 - 2004**

Thomas Wilson Dibblee Jr., passed away on November 17, 2004 in Santa Barbara. Tom was a remarkable geologist and a true legend. During his lifetime Tom mapped over 1/4 of the state of California. Check out the memorial on Tom posted on our website home page: [www.labgs.org](http://www.labgs.org)

## LABGS Membership Info!

Become a member of the LABGS and enjoy the benefits of membership. 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 and vice versa. The purpose of this is to reduce waste and duplicated effort. Check out the membership form for a list of the dual membership benefits. Membership is our primary source of income so I urge you all to join or renew. **To join or renew**, fill out the attached membership form and mail it in to PSAAPG 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.

## WE'LL BE THERE



Epoch is one of the energy industry's leading suppliers of wellsite data gathering systems. Our drilling instrumentation products, well-site reporting software and mud logging services are industry leaders, and myWells.com allows you to access that information anytime, anywhere. That means you can make more timely decisions that deliver efficiency and economy. If real time, accurate wellsite information is important to you, call Epoch. We'll be there.

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## Contact Us – The LABGS board

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Treasurer: Steve Zigan, (949) 355-4467

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**OUR WEB SITE ADDRESS IS:**

[www.labgs.org](http://www.labgs.org)



# 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	\$ _____
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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**