



June 2004

Los Angeles Basin Geological Society Newsletter

June Meeting: Dick Brown – Geotechnical Consultant

Will speak on

“The Palos Verdes Peninsula: Fabulous Geology in a Beautiful Setting”

Speaker Synopsis / Abstract

Dick Brown has been a geological consultant in private practice in southern California for 25 years. His education in geology includes a Bachelor's Degree from the University of Oklahoma (1958) and a Master's Degree from the University of California at Riverside (1968). A Certified Engineering Geologist and Registered Geologist in California; he has earned a living evaluating the geology of hillside residential properties in Southern California. Prior to becoming a private consultant he worked for several local geotechnical firms and a variety of geological organizations, including the USGS, Kaiser Steel, and EBASCO Services Inc. Dick's international experience includes mapping and evaluating landslide effects on the Kastraki Reservoir in Western Greece for the Public Power Corporation of Greece and as Geotechnical Manager studying a proposed Athens Metro System. Dick also worked as a Safety Analysis, as Quality Assurance Supervisor at a nuclear power plant site on the Baatan Peninsula, Philippines. Dick has been active in local professional societies, including President and Chairman of the Board of the South Coast Geological Society.

The Palos Verdes Peninsula has many interesting, and some enigmatic, geologic features. The rocks and sediments range in age from Cretaceous (110 ma) Catalina Schist to Pleistocene shallow marine deposits and Holocene landslides to present-day landslides, beach sands and gravels. Between the Cretaceous Catalina Schist basement rock and the overlying middle to upper Miocene Monterey Formation there is a time gap; sedimentary rocks older than middle Miocene are not found. Middle Miocene volcanic rocks of basalt and tuff are intruded into and layered with the Monterey Formation. The Monterey Formation, which covers most of the peninsula's

surface is comprised of three main members: Altamira Shale; Valmonte Diatomite and Malaga Mudstone (as mapped by Woodring et al., 1946), but Dibblee, 1999, considered the Malaga Mudstone equivalent to his upper Miocene to lower Pliocene “Unnamed Shale,” mapped in the eastern Los Angeles region. A submarine channel and fan deposit containing clasts of Catalina Schist cuts into the Altamira Shale at Point Fermin. Dibblee (1999) and Woodring et al. (1946) divided the Altamira Shale into lower and upper parts. Conrad (1983) and Conrad and Ehlig (1983) subdivided the Altamira Shale into three lithofacies: tuffaceous lithofacies; cherty lithofacies and the phosphatic lithofacies, from older to younger. Valmonte Diatomite lies atop the Altamira Shale. These rocks are very well exposed in Crenshaw Extension. The Pliocene Fernando (formerly called Pico and Repetto) Formation underlies the Gaffey anticline and the small, abandoned Gaffey oil field on the north side of the peninsula. Upper Pleistocene fossil hash of the Palos Verdes Sand, disrupted by a tsunami, overlies, on the wave-cut bench of an angular unconformity, the middle (formerly designated lower) Pleistocene shallow marine deposits of the highly fossiliferous Lomita Marl, and less fossiliferous Timms Point Silt and San Pedro Sand. Several large landslides cover the south side of Palos Verdes Hills. The Palos Verdes Fault is responsible for uplift of the Palos Verdes Hills. Another fault, thought to be active offshore, but apparently not onshore, is the Cabrillo fault.

The LABGS annual field trip scheduled for June 26, 2004 will look at many of these rocks and features. This talk will feature some views of stops on the field trip and give a brief overview of the rocks, structures and some of the enigmatic problems that are yet to be solved about the Palos Verdes Peninsula.

Time & Place

Time:

June 24, 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 Speaker Schedule

June 24, 2004 – Dick Brown

Geology of the Palos Verdes Peninsula

July & August

No Meetings – Summer Field Season

September 23, 2004 – Dr. David Juneo

TBA

October 28, 2004 – Dr. Tayna Atwater

TBA

Announcements / Information

2004 Student Recognition Awards

The Los Angeles Basin Geological Society is pleased to present one scholarship award in 2004 as a form of encouragement and recognition to those College students who show dedication and passion to the field of Geoscience. It is our goal to help future geoscientists on in their pursuits. **This award consists of a Brunton Compass and a wall certificate and will be presented at our June meeting.**

The LABGS Brunton Award

The 2004 recipient of the LABGS Brunton Award is **John Hartman** from California State University, Los Angeles. Steve is a junior and currently pursuing a B.S. in geology with plans to graduate next June. The LABGS Brunton Award is given to a qualified undergraduate student attending a four-year LA Basin College or University currently pursuing a baccalaureate degree in Geology or the Earth Sciences.

SELECTION PROCESS

The above award winner was selected from candidates nominated by a faculty member. The winner was selected based on the following criteria:

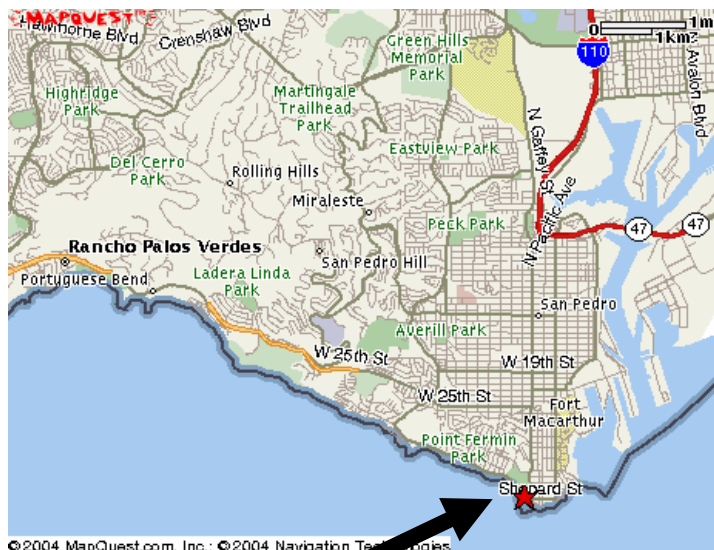
- Grade point average in earth science classes.
- An enthusiastic or special recommendation from the college advisor, department chair, or mentor professor

The Don Clarke Brunton Award

Unfortunately, there is no recipient of The Don Clarke Brunton Award in 2004, due to a lack of qualified candidates. The Don Clarke Brunton Award is given annually to a qualified student graduating from an LA Basin Community College with an Associate Degree, enrolled in a Geology or Earth Science curriculum with plans to pursue a baccalaureate degree in Geology or the Earth Sciences. Hopefully, there will be qualified candidates in 2005.

Field Trip to Examine the Catalina Schist and the Palos Verdes Peninsula is scheduled for June 26, 2004

Saturday June 26 is the scheduled date for the 2004 LABGS Annual field trip. **There is still room on the bus so plan now on attending this all day field trip to one of the most geological fascinating areas in the LA Basin.** This trip will be conducted by bus and will include lunch. Prices for the trip are a reasonable \$65.00. This includes bus transportation, lunch and a copy of the guidebook which will include new material on the area. **A registration form for the field trip is included in this newsletter, or you can access one off the LABGS web site.** If you would like more information contact Dick Brown at (562) 598-0595 or Dalton Lockman at (323) 298-2242.



Field Trip Starts and Ends Here



NASA Shuttle Radar Image of Palos Verdes



Pt Fermin Landslide on Palos Verdes Peninsula

LABGS T-Shirts NOW ON SALE

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. **Buy one at the June Meeting!**

New Officers for 2004 -2005

Since the nominations for new officers did not include more than one person for each office, the proposed election will revert to officer appointments. The next year should be exciting as we will have a good group of persons with a desire to shape the future of the LABGS. Officers for 2004 – 2005 will be **Program Chairman – Dick Brown**, Consultant, **Secretary – Ivan Aburto**, Breitburn Energy (returning for a 3rd year); **Treasurer - Steve Zigan**, ERI (returning for a 2nd year); **Interim President – Dalton Lockman** (Returning until a replacement can be found). **Our board year / fiscal year runs from July to July**

DAVID B. DEL MAR

Consulting Petroleum Geologist
California Registered Geologist # 634

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WE'LL BE THERE



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EPOCH

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Contact Us – The LABGS board

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dlockman@plainsxp.com

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javada@dslextreme.com

Secretary: Ivan Aburto (213) 225-5900, ext. 234
iaburto@breitburn.com

Treasurer: Steve Zigan, (949) 355-4467
szigan@eri-us.com

OUR WEB SITE ADDRESS IS:
www.labgs.org

Renew Your Annual Dues

The Pacific Section AAPG and LABGS operate on a fiscal year from July 1 to June 30. If you are a current member, you will receive a PSAAPG membership renewal notice this month in the mail. Please note, when you renew you are renewing for both LABGS and PSAAPG (for one low price of \$12).

If you haven't done so, take this opportunity to send in a check and update your mailing information. New directories will be printed in spring of 2005 and will be included in your dues for the next fiscal year (the directory is one of the key benefits of joining the LABGS through PSAAPG).

Not a Member you say!!! Join and get on the LABGS Membership / Mailing List

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

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

2004 Annual Field Trip Palos Verdes Peninsula

When:	Saturday, June 26, 2004 Check-in at 7:00 a.m. / Stop1 at 7:20 a.m. / Return at 5:30 p.m.
Where:	Departs and Returns from Point Fermin Park, San Pedro, CA
Parking:	Point Fermin Park Parking lot at Pacific and Shepard Streets
Transportation:	Luxury Bus – Restroom equipped
Leaders:	Dick Brown, Jack Ferguson, Steve Jacobs, Ed Marks, Ed Steiner, John Schweibert, Don Clark, Roy Schlemmon, Ed Kiessling, Mark Osborne, Mark Legg
Fee:	\$65.00 Includes bus transportation, A.M. Snacks / Coffee, Lunch, Drinks & Field Guide
Limit:	56 Persons

This one day field trip will start at Point Fermin Park and work counterclockwise around the peninsula via an air-conditioned luxury bus June weather in L.A. is usually great, but you June want to bring along a sweatshirt / light jacket, hat, sunscreen, camera, and good hiking shoes (we will hike over 2.5 miles total). A total of nine stops are planned and are listed below:

- Point Fermin Park:** Check-in; Point Fermin Landslide; Point Fermin Submarine Fan; Point Fermin Lighthouse Museum.
- 2nd Street,** San Pedro; between Pacific Ave. and Mesa St: Pleistocene Lomita Marl; Timms Point Silt; San Pedro Sand; angular unconformity of a wave-cut bench; and Late Pleistocene Tsunami deposit ("Fossil Hash").
- Baseball Field, N. Gaffey Street,** San Pedro: North-dipping, Low-angle fault in San Pedro Sand.
- Chaparral Lane,** Rancho Palos Verdes: Catalina Schist above George F Canyon.
- Crenshaw Extension,** Rancho Palos Verdes: late Miocene Valmonte Diatomite and middle Miocene Altamira Shale member of the Monterey Formation.
- Indian Peak Road,** Rancho Palos Verdes: Silver Spur Graben and landslide.
- Palos Verdes Drive, South,** Rancho Palos Verdes: Portuguese Bend Landslide.
- Forrestal Drive,** Rancho Palos Verdes: Livingstone Quarry.
- Royal Palms Drive, Whites Point,** Rancho Palos Verdes: Recumbent Fold in middle Miocene Altamira Shale.

Registration Form – Cut form prior to mailing

First Name	Last Name		
Address			
City	State	Zip	
Email	Phone		

Please use one form per person – Make check payable to LABGS

Mail Form and Payment to:

Dalton Lockman
Plains Exploration and Production
5640 S. Fairfax Ave
Los Angeles, CA 90056
(323) 298-2242

Dead line for registering is June 18 2004. After June 18 call for availability



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**