



May 2004

Los Angeles Basin Geological Society Newsletter

May Meeting: Laura Rademacher – Cal State University, Los Angeles

Will speak on

“What do Geology, Streams and Groundwater in Southern California have in Common?”

Speaker Synopsis / Abstract

Laura Rademacher is an Assistant Professor in the Department of Geological Sciences at California State University Los Angeles. At CSULA, Laura devotes her time Hydrologic modeling and understanding catchment hydrological and geochemical response to climate and land use changes. Laura received her PhD in Geology from UC Santa Barbara in 2002 after earning a BS. From the University of Wisconsin.

Most streams receive water from many different sources in a catchment, including direct precipitation into the stream channel, overland flow, shallow subsurface flow, and groundwater discharge which have unique chemical and isotopic fingerprints as well as varying residence times within a catchment. Most studies of catchment response times incorporate chemical hydrograph separation techniques in which water entering a stream is lumped into two or sometimes three uniform end-members. A fundamental assumption built into this model is that the end-members are spatially and temporally unvarying. In many studies, groundwater plays a large role in stream chemistry, particularly during base flow periods. However, current models of catchment hydrochemistry do not account for chemical and isotopic variability found within the groundwater end-member. Here, the relationship between groundwater residence time and chemical and isotopic composition to understand temporal variability in stream hydrochemistry and suggest considerations for predicting catchment response times to perturbations. Results suggest that water in Sagehen Creek is dominated by an old groundwater component throughout the year and that small catchments can have a substantial lag in their response times to changes related to atmospheric deposition, anthropogenic influences, and climate.



Dr. Laura Rademacher

lradema@calstatela.edu

Time & Place

Time:

May 27, 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

May 27, 2004 – Laura Rademacher – CSULA
What do Geology, Streams, and Groundwater in Southern California Have in Common?

June 24, 2004 – TBA
Geology of the Palos Verdes Peninsula

July & August
No Meetings – Summer Field Season

September 23, 2004 – Dr. David Mayo
TBA

October 28, 2004 – Dr. Tayna Atwater
TBA

Announcements / Information

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

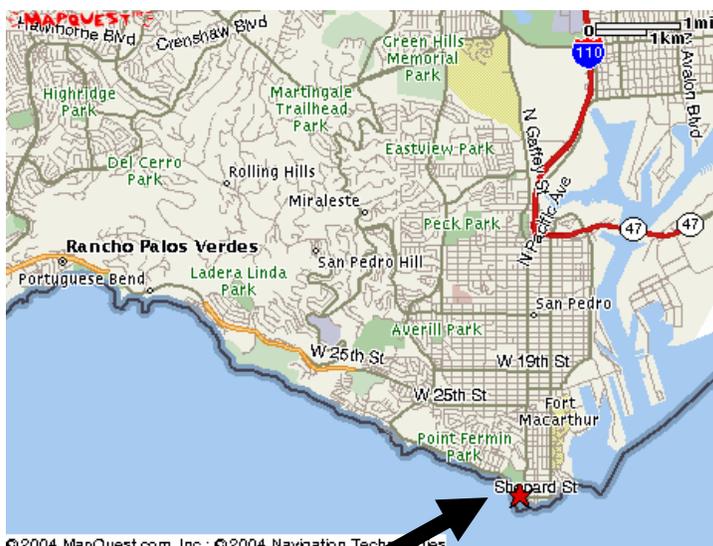
Saturday June 26 is the scheduled date for the 2004 LABGS Annual field trip. Plan now on attending this all day field trip to one of the most geological fascinating areas in the LA Basin. This trip will be conducted by bus and will include lunch. Prices for the trip are a reasonable \$65.00. This includes 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.



NASA Shuttle Radar Image of Palos Verdes



Pt Fermin Landslide on Palos Verdes Peninsula



Field Trip Starts and Ends Here

2004 Student Recognition Awards

The Los Angeles Basin Geological Society is pleased to offer **two scholarship awards** 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. Both of these awards consist of a Brunton Compass and a wall certificate.

The Don Clarke Brunton Award

The Don Clarke Brunton Award is given 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.

AWARD QUALIFICATIONS

To qualify for this LABGS award, the student must meet the following criteria:

1. Plan to graduate in 2004 with an Associate Degree from a Los Angeles Basin Area Community College.
2. Complete a Geology or Earth Science curriculum.
3. Must be pursuing plans to enroll in a four-year college or university with Geology, Geological Sciences, or Earth Science as their designated major.

The LABGS Brunton Award

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.

AWARD QUALIFICATIONS

To qualify for this LABGS award, the student must meet the following criteria:

1. Be enrolled as an undergraduate at a college our university in the LA Basin
2. Have declared majoring Geology, Geological Sciences or Earth Sciences

REQUIREMENTS FOR NOMINATION ARE THE SAME FOR BOTH AWARDS.

Nominees for these awards are submitted by a faculty member of the nominee's LA Basin College or University. The faculty member must:

1. Fill out and sign the LABGS Award Form.
2. Submit the required documentation by the due date of May 23, 2004.

SELECTION PROCESS

The elected officers of the LABGS will select the most qualified candidates based on the following criteria:

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

NOTIFICATION OF AWARD

All Applicants will be notified once selection process has ended. Notification will be done via mail. The Award will be presented at the LABGS luncheon meeting on June 24, 2004. The winner will be invited to attend the luncheon.

To find out more information on these recognition awards or to get an application. Go to our website: www.labgs.org

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 May Meeting!**

Candidates for Upcoming Election of Officers

We anticipate holding an election of officers for the 2004 – 2005 fiscal years in June. We are in need of persons who have a desire to shape the future of the LABGS. If you would like to run or wish to nominate someone, please contact Dalton. The positions are President, Vice President (Program Chairman), Treasurer, and Secretary.

Contact Us – The LABGS board

President: Dalton Lockman (323) 298-2242
dlockman@plainsxp.com
Program Chair: Javed Azam (310) 544-9504
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

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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 may 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 16, 2004. After June 16 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**