



April 2004

Los Angeles Basin Geological Society Newsletter

April Meeting: Ivan Colburn – Cal State University, Los Angeles

Will Speak on the Role of Antecedent Rivers in Shaping the Southern California Coast

Speaker Synopsis / Abstract

Ivan Colburn is an Emeritus Professor in the Department of Geological Sciences at California State University Los Angeles. At CSULA, Ivan concentrates his research in the areas of sedimentary petrology, stratigraphy, and marine geology. He received his PhD in Geology from Stanford University in 1961 after earning a MS from Claremont College and a Bachelor's degree from Pomona College. Dr. Colburn is also a California Registered Geologist and an Honorary Life Member of the Pacific Section SEPM.

In Quaternary time a number of prominent rivers flowed to the southern California coast. Five on the Orange County coast are, from north to south, Bolsa Chica, Santa Ana, Upper Newport Bay, Aliso, and San Juan.

During the latest glacial period of the Pleistocene Epoch, annual rainfall in southern California is inferred to have been comparable to that experienced along the Pacific Northwest coast today where rainfall exceeds 35 inches per year. Such high rainfall is what transformed southern California ephemeral streams into powerful perennial rivers capable of eroding deep coastal channels.

Inland and parallel to the coast is a relatively narrow belt of elevated terrane created by tectonic up warping along the Newport-Inglewood fault zone. Pleistocene marine and fluvial strata are the youngest strata up warped along this fault zone. The high ground created by the up warping process was cut through by the five antecedent rivers to form five water gaps in the rising terrane.

These channels range in size from unfilled Aliso Canyon that measures 150 feet wide at the floor and has 600 feet of relief at the coast to the partially filled gorge of the Santa Ana River Channel that measures 2 miles

wide with relief of 100 feet close to the coast. The floors of these channels next to the coast, except for Aliso Canyon, lie several hundred feet below present sea level with only the upper third of their walls remaining visible today.

The variation in the widths and depths of the water gap channels is due to the following four factors: differences in resistance to erosion of the bedrock through which the rivers cut their channels, differences in the size of the river drainage basins from which the rivers came, the increased rainfall in southern California during the Pleistocene glacial epochs as the channels were being cut, and the relatively slow rate at which the terrane along the Newport-Inglewood fault zone was being tectonically elevated beneath the rivers.



Dr. Ivan Colburn

Dr. Colburn's Contact Info:

CSULA

5151 State University Dr.

Los Angeles, CA

Email: icolbur@calstatela.edu

Time & Place

Time:

April 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 Spring Speaker Schedule

April 22, 2004 – Ivan Colburn – CSULA

The Role of Antecedent Rivers in Shaping the Southern California Coast

May 27, 2004 – TBA

June 24, 2004 – TBA

Announcements / Information

The 2004 Pac Section AAPG / SEPM / SEG is just around the corner



The PSAAPG convention committee is extending a sincere invitation to you to actively participate in the 2004 Annual Meeting of the **Pacific Sections of the American Association of Petroleum Geologists, Society of Sedimentary Geology, and Society of Exploration Geophysicists** in Bakersfield, California, **May 9 to May 12**. This event will provide an ideal forum for the exchange of geoscience technologies and best practices and a time to renew acquaintances, honor the Geologic profession and its special members.

The Bakersfield Holiday Inn and Convention Center provides the perfect site for the meeting, keeping technical sessions, exhibits and special events all under one roof. This allows the meeting to optimize available time to provide a maximum amount of information, education, and excitement, at a reasonable price.

The Technical Program and Education Committees have compiled a strong blend of presentations, poster sessions, short courses and field trips covering a broad range of topics. The meeting will kick off with a wide variety of excellent field trips and timely short courses followed by three days of technical sessions, which includes over 80 technical papers.

You can access all the convention information on the PSAAPG web site at www.psaapg.org/convent.html. Make your plans now and return the registration form today.

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

DAVID B. DEL MAR

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California Registered Geologist # 634**

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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 April Meeting!**

Catalina Schist and the Palos Verdes Peninsula Field Trip is in its final Stages of Planning

Saturday June 24 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 still being determined, so stay tuned. A comprehensive guidebook is being put together which will include new material on the area. Watch for complete information in the next newsletter. If you are interested in contributing to the guidebook or helping out with logistics, contact Dick Brown at (562) 598-0595.

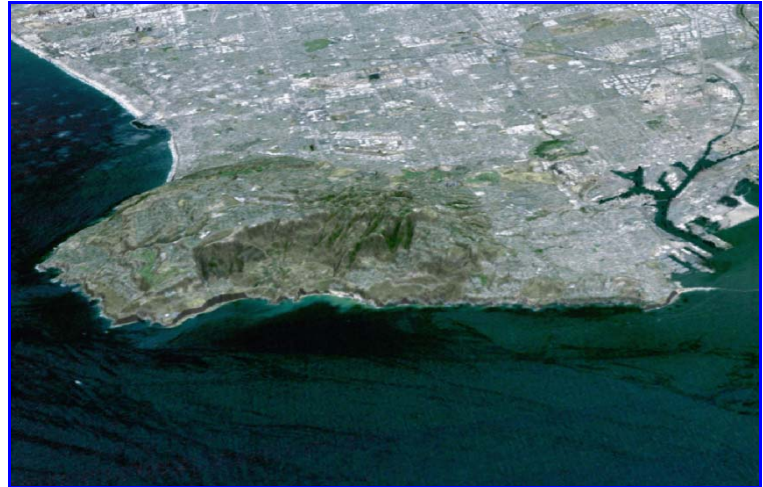
WE'LL BE THERE



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.

EPOCH

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**NASA Shuttle Radar Image of
Palos Verdes**

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OUR WEB SITE ADDRESS IS:

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 \$ _____

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**