



May 2013

## LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

May 23th (Thursday) **Matt Becker**, Conrey Endowed Chair in Hydrogeology and Professor in the Geological Sciences Department at CSU Long Beach

will speak on: **Fluid flow in fractured formations: implications for groundwater contamination, geothermal energy, and enhanced oil recovery**

### Abstract

Uneven fluid flow is common hindrance to efficient groundwater remediation, geothermal heat extraction and, or enhancing oil recovery in fractured formations. The problem is exacerbated in engineered systems that rely upon well-to-well circulation (e.g. pump and treat, geothermal circulation, waterflood). Under forced gradients, water can channelize leading to poor circulation or short circuiting of fluid flow.

The result is poor sweep efficiency. Although this problem is common across industries, the approach to predicting and remediating poor sweep efficiency is not. For example, hydrologists rely heavily upon hydraulic testing, geothermal managers on tracers, and petroleum engineers on geologic interpretation. The purpose of this presentation is to explore the fluid mechanics of flow channeling, compare approaches to the problem, and highlight methods that might benefit from cross-disciplinary exchange.

### Speaker's Biography

Matt Becker is the Conrey Endowed Chair in Hydrogeology and Professor in the Geological Sciences Department at CSU Long Beach. He holds a B.S. in Geology from Michigan State University and M.S. and Ph.D. in Civil Engineering from the University of Texas at Austin. He has held positions with Chevron USA, Los Alamos National Labs, and U.S. Geological Survey National Research Program. During sabbatical periods he was a National Academy of Science Senior Research Associate at NASA Goddard Space Center and a Fulbright Scholar at the University Trento, Italy. Prior to arriving at the CSULB he was for 10 years a faculty member at the University of Buffalo. Matt has been studying fluid flow in fractured rock for 20 years.

### Meeting Time, Place, Cost and Reservations

**Time:**

**Thursday, May 23th, 2013**

#### Typical Meeting Agenda

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

**Announcements: 11:45 AM to 12:00 PM**

**Guest Speaker: 12:00 PM to 12:30PM**

**Questions/Close: 12:30 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:**

**Lunch and Speaker:** \$20.00 with reservations  
\$25.00 without reservations  
**Student:** \$5.00 (Lunch and Speaker)

## **Meeting Reservations:**

**Make your reservations using our web site at [www.labgs.org](http://www.labgs.org), or by calling Graham Wilson (562)-326-5278, or emailing [gwilson@shpi.net](mailto:gwilson@shpi.net). Reservations must be made by 10:00 AM Tuesday morning prior to Thursday meeting to receive discount price noted above. As always walk-ins are welcome.**

## **Contact Us – The LABGS Board**

President: Bill Long (213) 225-0205  
[William.long@breitburn.com](mailto:William.long@breitburn.com)

VP & Program: Jean Kulla (949) 500-3095  
[k2mobile@MSN.com](mailto:k2mobile@MSN.com)

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[k2mobile@MSN.com](mailto:k2mobile@MSN.com)

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## **Student Sponsorship**

Looking for Student Lunch sponsors. If you or your Business/Organization would like to

become a Student Lunch Sponsor, please let us know.

## **Student Scholarships**

*Make sure you attend to meet the 11 student recipients for the joint LABGS and PSAAPG scholarships.*

The Los Angeles Basin Geological Society (LABGS) is a non-profit professional society associated with the Pacific Section of the American Association of Petroleum Geologists (PSAAPG). Our members include geologists, hydrogeologists, geochemists and others in private industry and academia in the greater Los Angeles area. Many of our members are employed with academia, the energy industry, and the environmental industry.

In the last couple of years, LABGS has established a scholarship program in conjunction with the PSAAPG Educational Foundation. This scholarship program is to assist undergraduate and graduate students in the geological and earth sciences within our regional area with their educational needs.

This year, our scholarship program plans to award up to 10 scholarships ranging in amounts from \$500 to \$1500. The awards will be based on merit and need and awarded to selected undergraduate and graduate students that meet our eligibility requirements. The awarded money must be used to advance the student's education in geology and the related earth sciences. It may be used for tuition at a 4-year degree-granting (BS, BA, or graduate) California college or university. Scholarship funds may also be used for tuition at Summer Geology field camp, text books, related supplies. Funds cannot be used directly for travel, to pay clerical help, or room and board.

## **Teacher of the Year Award (TOTY)**

*Congratulations - Larry Rodgers, he is a middle school teacher at Chaparral Middle School in Diamond Bar. Has been awarded the LABGS Teacher of the Year.*