

February 2011



LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

February 24th (Thursday) **Dr. William Berelson**, Department of Earth Sciences, University of Southern California; **will speak on:**

Carbon Sequestration, Export and Burial: Oceanographic Perspectives on Petroleum Geology

Abstract

I have studied organic carbon biogeochemical cycling in several oceanographic settings; continental margin/upwelling sites, open ocean and oceanic sites influenced by riverine input. Within these regions I've studied primary production, net export, flux through the deep water column, early sediment diagenesis and burial rates. I will discuss and provide case study examples that illustrate some of my perspectives on carbon export phenomena (carbon leaving the upper ocean for greater depths) and carbon remineralization phenomena (and burial efficiency). In particular I will focus on mineral ballasting as a means of driving export, bacterial heterotrophy--the driving force of carbon remineralization, and sediment geochemistry--early diagenetic reactions involving Fe and S.

Speaker's Biography

I have an undergraduate geology degree from the University of Rochester, a masters degree from Duke University and received my PhD from the University of Southern California. Following my PhD I stayed at USC as a research faculty and in 2004 was appointed as a tenure track faculty. I am a professor with a group that studies a wide range of geochemical, oceanographic and geobiological questions. I have primarily studied the sediment-water interface in terms of geochemical reactions such as organic carbon diagenesis, opal and calcium carbonate remineralization processes. I analyze pore water chemistry and make use of benthic chambers and water column models to assess these reaction rates. I also use sediment traps to capture particles that sink in the ocean and have studied the role sediments play in iron and manganese input to the ocean. Recently, I am involved with studies of N dynamics in anoxic settings and also studying the formation of carbonate accretions in alkaline lakes.

Meeting Time, Place, Cost and Reservations

Time:

Thursday, Feb 24th, 2011

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: FREE (Lunch and Speaker)

Meeting Reservations:

Make your reservations using our web site at www.labgs.org, or by calling Becca Lanners at (562) 495-9310, or emailing Becca_Lanners@oxy.com
Reservations made prior to Tuesday before the meeting is appreciated, but reservations up to the morning of the meeting will be honored. As always walk-ons are welcome.

Come and enjoy – this talk is going to be very interesting!

Los Angeles Basin Geological Association
Advertising Costs 2008-2009

Newsletter and SoCal website posting:

- Business Card size ad \$25/month \$230/year
- 1/4 Page \$45/month \$450/year

Website posting only: \$20/month



Contact Us – The LABGS Board

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

VP & Program: Greg Hummel
(805) 937-7216 x 104
ghummel@energy-reserves.com

Treasurer: Bert Volger
hvogler@kleinfelder.com

Secretary: Rebecca Lanners
Becca_Lanners@oxy.com

Scholarships: Jean Kulla (949) 500-3095
k2mobile@MSN.com

OUR WEB SITE ADDRESS IS:
www.labgs.org

Student Sponsorship

Looking for Student Lunch sponsors for our winter schedule. If you or your Business/Organization would like to become a Student Lunch Sponsor, please let us know.