

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



NCGS Newsletter Editor:

Mark Detterman

mdetterman@blymyer.com

Secretary:

Dan Day: danday94@pacbell.net

NCGS Voice Mail: 925-424-3669

Website: www.ncgeolsoc.org

NCGS OFFICERS

President:

Bob Kieckhefer

rmki@chevrontexaco.com

President-Elect:

Field Trip Coordinator:

Tridib Guha: aars@earthlink.net

Treasurer:

Phil Reed: philecreed@msn.com

Program Chair:

Bill Perkins

wepkins@comcast.net

Scholarship:

Randy Kirby

rkirby.geosci@usa.net

K-12 Programs:

John Stockwell

kugeln@msn.com

Membership:

Barb Matz

Barbara.matz@shawgrp.com

COUNSELORS

Programs:

Ron Crane: roncrane@aol.com

Don Lewis: donlewis@comcast.net

Frank Picha: afpicha@comcast.net

Ray Sullivan

sullivan@lucasvalley.net

MEETING ANNOUNCEMENT

DATE: Wednesday, March 31, 2004

LOCATION: Orinda Masonic Center, 9 Altarinda Rd., Orinda

TIME: 6:30 p.m. Social; 7:00 p.m. talk (no dinner) Cost:
\$5 per regular member; \$1 per student member

RESERVATIONS: Leave your name and phone number at
925-424-3669 or at danday94@pacbell.net before the
meeting.

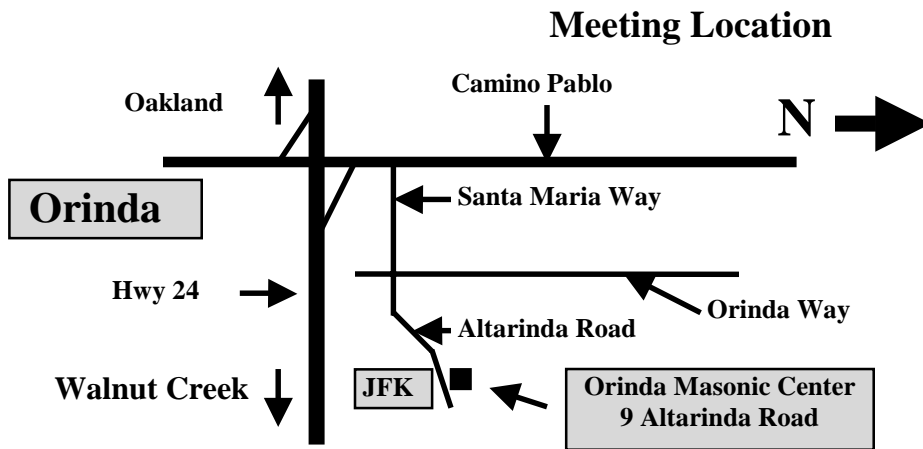
Speaker: Dr. Judd Case
Professor of Biology and Earth Science
Dean of Science, Saint Mary's College of California

DISCOVERING DINOSAURS IN THE ANTARCTIC PENINSULA

Antarctica is one of the most formidable places in the world with its mile-thick ice cap, cold temperatures, and howling winds. So attempting to find evidence of past life in this area or the world would seem to be a very improbable endeavor. Yet scientists do venture to this frozen continent to do just that.

Dinosaur finds in Antarctica are especially rare occurrences, with only seven finds representing seven different types of dinosaurs. Finding a small (6 foot tall) meat-eating (theropod) dinosaur that is unlike anything known from the area and that is additionally unlike any previously known species is quite newsworthy. Dr. Case found this new Antarctic dinosaur this past December, while he served as the chief scientist of the National Science Foundation sponsored expedition to the Antarctic Peninsula.

Dr. Case received his PhD from University of California-Riverside in 1986 and joined Saint Mary's in 1990 as an assistant professor. He became full professor in 1998 and recently was appointed to be Dean of the School of Science where he is spearheading the inclusion of earth science courses in the Environmental Science and Studies Program. He is interested in the evolution, biogeography and systematics of marsupials and biota of Gondwana and has worked in Australia as well as Antarctica. His most recent expeditions to Antarctica have focused on the Late Cretaceous vertebrates of the James Ross Basin with special emphasis on Vega Island.



Did You Know? On March 3, 2004 the USGS Celebrated it's 125th Anniversary!!

The USGS was established in 1879 under President Rutherford B. Hayes to conduct "the classification of the public lands, and examination of the geological structure, mineral resources, and products of the national domain." Congratulations!

Northern California Geological Society
 c/o Mark Detterman
 3197 Cromwell Place
 Hayward, CA 94542-1209

Would you like to receive the NCGS newsletter by e-mail? If you are not already doing so, and would like to, please contact **Dan Day** at danday94@pacbell.net to sign up for this service.

NCGS 2003-2004 Calendar

Wednesday March 31, 2004

Dr. Judd Case, Dean of Science, Saint Mary's College,
Orinda

*Expedition to Antarctica (in Search of Cretaceous
Fossils)-December 2003*

7:00 PM at Orinda Masonic Center

Monday April 5, 2004

Dr. Richard Behl, AAPG Distinguished Lecture
*Miocene Monterey Formation of California: Plankton to
Petroleum Source to Reservoir*

1:00 PM at ChevronTexaco, San Ramon, Conference
Room D2193

Note: Non-ChevronTexaco employees RSVP by email
to BeverlyReynolds@ChevronTexaco.com or by phone
to **Beverly Reynolds** at 925-842-2710 by 3:00 P.M.,
Thursday, April 1st. This must be done to arrange
visitors' security badges.

Wednesday April 28, 2004

John Stockwell, NCGS
The Formation of Thundereggs

7:00 PM at Orinda Masonic Center

Upcoming NCGS Field Trips

May 1, 2004 *Geology of the Mt. Diablo
Structural Domain*
Ron Crane, Consultant

Mid-Summer *East San Jose Landslide -
Tectonically Driven?*
Sands Figuers

TBA *The Merced Formation Along
the Beach*
Ed Clifton, Ralph Hunter,
and Gregg Bartow

Upcoming Meetings of Interest – Association of Engineering Geologists

Tuesday April 13, 2004

Donald Wells, Geomatrix Consultants

*Location of the Hayward Fault at UC Berkeley's
Memorial Stadium*

Location TBA

May 11, 2004

Tanya Atwater, University of California, Santa Barbara
Plate Tectonics

Old Spaghetti Factory, Oakland

*A Fund Raiser in Association with the California
Council of Geoscience Organizations (CCGO)*

Contact Chris Hundemer at 408-866-5436 for more
information (regular pricing: \$30/member; \$35/non-
member)

AEG Field Trip Update – SOLD OUT!

Unfortunately the 45 positions available for the AEG
field trip *Seismic Hazard of the Range Front Thrust
Faults, Northeastern Santa Cruz Mountains /
Southwestern Santa Clara Valley* scheduled for March
27, 2004 were filled within 24 hours of announcement.

Upcoming Meetings of Interest – Bay Area Geophysical Society

April 8, 2003 BAGS Luncheon:

H. Gary Green, Moss Landing Marine Laboratories,

*The Geologic-Biologic Connection - Using Geophysics
to Characterize Marine Benthic Habitats*

An abstract and biography will soon be at:
<http://sepwww.stanford.edu/bags/Talks>

Social and Lunch: 11:30 a.m. in the ChevronTexaco
cafeteria.

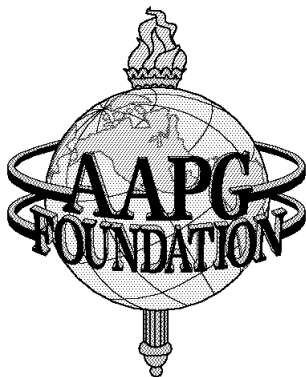
Talk: Talk Details are not yet finalized. Please check
the BAGS website for details as they become available.

Location: ChevronTexaco Park, 6001 Bollinger
Canyon Rd., San Ramon, CA.

There is no charge for this program. You may buy
your own lunch in the ChevronTexaco cafeteria.

Note: Non-ChevronTexaco employees RSVP by email
to warren.king@chevrontexaco.com or by phone to
Warren King at 925-842-9964 by 12:00 noon, Monday,
April 7th. This must be done to arrange visitors' passes.

Please check the BAGS website regularly for meeting
notices and updates.



2003 - 2004 AAPG Distinguished Lecture

Abstract

RICHARD J. BEHL
CALIFORNIA STATE UNIVERSITY
Long Beach, CA

For Meeting Details – See NCGS Calendar

Funded by the AAPG Foundation

The Miocene Monterey Formation of California: Plankton to Petroleum, Source to Reservoir

For over a century, the Miocene Monterey Formation has fascinated geologists with its uniquely siliceous composition, complex diagenesis, and importance as both source and reservoir of oil in California. The Monterey's extensive and excellent outcrops, exposed at different stages of alteration, have served as laboratories for countless studies of silica, clay, carbonate, phosphate, organic matter, and petroleum. A burst of research in the 1980's coincided with major offshore discoveries in

fractured reservoirs of the Monterey Formation in the Outer Continental Shelf of central California. Recent research into these beautiful and important rocks has focused on the paleoceanography, organic geochemistry, and the interconnection of tectonics and fluid flow in active margin basins. This presentation will be a sedimentologic, petrographic, stratigraphic, and structural field trip through the Monterey Formation.

Richard J. Behl

Education:

1978 University of California – San Diego; B.A.,
Chemistry with Earth Sciences Specialization
1992 University of California – Santa Cruz; Ph.D., Earth
Sciences

Experience:

1978-1979 Core Laboratories, Inc., Wellsite
Geologist
1980-1982 Exploration Logging, Inc., Wellsite
Geologist
1983-1987 Epoch Well Logging, Inc., Wellsite
Geologist
1992-1995 University of California, Santa Barbara,
Postdoctoral Fellow
1995-1999 California State University, Long Beach,
Assistant Professor
1999-Present California State University, Long Beach,
Associate Professor

Professional Interests:

Marine sedimentology and stratigraphy, diagenesis of silica- and organic carbon-rich sediments, and paleoceanography. Special interests in the sedimentary record and diagenesis of the Neogene through the California Margin.

Awards and Professional Activities:

1986-1987 Wellsite Geologist, Deep Observation of
the Earth's Continental Crust, Cajon Pass
Project
1989-1990 Shipboard Sedimentologist, Ocean
Drilling Program Leg 129, West Pacific
1990 SEPM Excellence of Oral Presentation
Award
1993 Sedimentologist, Ocean Drilling Program
Site 893, Santa Barbara Basin
1994-1997 Project Subleader, IGCP 374;
Paleoclimatology & Paleoceanography
from Laminated Sediments
1996 Shipboard Sedimentologist, ODP Leg 167,
California Margin
1998 Field Trip Chair, Cordilleran Section GSA
Meeting, Long Beach, California
1998 Field Trip Leader, Pacific Section AAPG
Meeting, Ventura, California
1999-2000 Vice President, Pacific Section SEPM
2000 Field Trip Leader, Pacific Section SEPM,
Santa Maria, California
2002 Shipboard Sedimentologist, IMAGES
Margins of North America cruise

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



NCGS Field Trip

Geology of the Mt. Diablo Structural Domain

Saturday May 1, 2004

**Field Trip Leader:
Ron Crane, Consultant**

This trip will concentrate on the southern portion of the Mt. Diablo Structural Domain. We will investigate the general structure of the area and go up Mt. Diablo to the top with several view stops, with lunch at the top. In the afternoon we will go down the northern road and across the north plunge along Ygnacio Road, stopping at the Domengine Outcrop, and on to the Marsh Creek Road.

THIS FIELD TRIP WILL BE LIMITED TO 30 PEOPLE. CARPOOLING IS A MUST!!

***** **Field Trip Logistics** *****

Time: **Saturday May 1, 2004, 7:30 am** : I-680/ Sycamore Valley Road Park and Ride

Departure: We will gather at the Danville Park and Ride lot immediately east of the I-680 Freeway on the Sycamore Valley Road exit, at the end of the parking lot. Gather there at 7:30 am for distribution of guidebook, coffee and doughnuts, and leave by 8:00 a.m. The trip should be over by 4:30 pm.

Cost: \$30 for members; \$20 for students. Cost includes refreshments, lunch, and field guides.

***** **REGISTRATION FORM --- PLEASE RSVP by Thursday, April 29, 2004** *****

Name _____ E-mail or Fax No. _____

Address (Street/City/Zip) _____

Phone (day) _____ Phone (evening) _____ Please indicate if you are a nonmember (cost is \$40 – includes membership for the remainder of the year) _____

Regular Lunch _____ Vegetarian Lunch _____ (Please check one)

Please mail form and a check made out to NCGS to: **Tridib Guha, 5016 Gloucester Lane, Martinez, CA 94553**

If you have any questions or need additional information, e-mail Tridib at: aars@earthlink.net or call: (925) 370-0685 (evenings - PREFERRED) or (925) 363-1999 (day - emergency only)

People who are willing to drive their car or SUV please indicate and NCGS will pay your fuel costs.