

March & April • 2010

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PSAAPG

**Pacific
Petroleum
Geology NEWSLETTER**



President's Message

Wow! What a great convention we will have in Anaheim, California, at the end of May. That is a great time of the year to be in Southern California, next to the Happiest Place on Earth. For those of you that don't know what that is, it is Disneyland.

Please check out the information that we have put together for the convention elsewhere in this newsletter and also on our website. I think that you will be pleased with the exciting field trips, short courses, and social events

and the oral and poster sessions that are lined up. Our co-host societies, the GSA and SEPM, have greatly contributed to the event. I believe that all of you that attend will benefit and enjoy the experience. Please register NOW, as we have gotten great rates on a block of rooms and we want to fill them up! My thanks go out to Curt Henderson, the AAPG Co-Chair for the event, and his convention committee for setting up this fine event.



As we progress a decade into the 21st Century, the oil and gas industry is facing great battles that revolve around the resources that we produce to fuel the world. There is concern about global warming and/or global cooling, the

(Continued on page 2)

**May 27-30, 2010, Anaheim, CA
West Coast Convention**

at the Anaheim Marriott

Includes

**PS-AAPG, PS-SEPM, PCS-SEG,
CORDILLERAN GSA & WR-SPE**

For more information or to register go to:

<http://www.geosociety.org/sectdiv/cord/2010mtg/>

...President's Message*(Continued from page 1)*

impact of conservation measures set up by the Kyoto Protocol, etc., on business in the world, concern about the future reserves of oil and whether there will be a pronounced shortage, etc. Strangely, the USA politicians do not seem to be looking to the energy industry for advice. Hopefully, in the future they will.

To better understand these issues, there is not better place to learn than at one of our conventions. A lot of our papers may be more academic than the issues stated above, but many are not. One of the best attended events last year was a panel discussion on offshore oil and whether or not the Southern California offshore oil would ever be developed. The "Tranquillion Ridge" issue simmers now as the State of California tries to decide how to develop the 150 to 250 million barrels of oil that exist under state waters, proven up by drilling by PXP on adjoining Federal leases. With the state so in need of funds, it amazes me that people are still arguing whether or not to allow the state to lease the state

waters for oil and gas DEVELOPMENT. There may or may not be a paper on exactly the topic you want to learn about, but there is no better place to broach the subject than with colleagues at a convention!

Now, a word about the oil and gas fields around the Anaheim Marriott and Disneyland. It appears from a short search on Munger's Oilgram, 1993 edition, that there are none. Oh, there was one, and it was very close to Disneyland: the one well Anaheim oil field. It did not amount to much. One well produced at an initial rate of 48 barrels a day of 11 gravity oil from 130' of "Pico" pay sand at a depth of 4,350'. The well was drilled in 1951, about 4 years before Disneyland opened. The operator was Patrick A. Doheny and the well name "Holsinger" # 1. The location was section 22-T4S-R10W, San Bernardino Baseline and Meridian.

So, that is all there is around Disneyland for miles. I looked at the DOG map for a field near Knott's Berry Farm, but did not see one near there either. The Buena Park

city that it is located in appeared to have no oil fields. However, just to the north of Buena Park lie some of the giant oil fields of the Los Angeles Basin. Oil fields named East and West Coyote, Leffingwell and Santa Fe Springs line up in a southeast to northwest trend parallel to the Interstate 5 freeway. North of them lies another string of pearls, the fields along the Whittier Fault Zone. These include Brea Olinda, Sansinena, Whittier and Montebello fields. Hundreds of millions of barrels of oil were produced from these fields.

So, the Disneyland area, the Anaheim location for our 2010 convention, is located near some very large oil fields, which have a complex structural and stratigraphic history. Some of this history will likely be discussed at the convention. These fields lie in the Los Angeles Basin, which I have been told is the richest in the world, in terms of barrels of oil produced per acre. And, a great place to have a convention.

Sincerely,
Scott T. Hector
President
Pacific Section AAPG

*With the state so in need
of funds, it amazes me
that people are still
arguing whether or not to
allow the state to lease the
state waters for
oil and gas
DEVELOPMENT.*

**FROM MOUNTAINS TO MAIN STREET
CORDILLERAN GSA & PACIFIC SECTION AAPG
ANAHEIM, CA
MAY 2010**



Welcome

The 2010 Pacific Section of the American Association of Petroleum Geologists (PSAAPG) meeting will be held in beautiful Anaheim, CA. This year's convention will once again be a joint conference with the Cordilleran Section of the Geologic Society of America (GSA). Along with PSAAPG and GSA, the Pacific Section SEPM and the Western Region SPE will also sponsor technical sessions. This will be a unique opportunity for you to hear a wide variety of talks and poster sessions focusing on geology.

Information

Find up-to-the-minute information at www.geosociety.org/sectdiv/cord/2010mtg/.

If you have questions, please contact the general meeting co-chairs:

- Phil Armstrong, parmstrong@fullerton.edu (GSA);
- Curtis Henderson, curtis.henderson@longbeach.gov (AAPG).

Local hosts are the Department of Geological Sciences at California State University-Fullerton and the Los Angeles Basin Geological Society.

Registration

Early registration deadline:

26 April 2010

Cancellation deadline:

3 May 2010

Register at www.geosociety.org/sectdiv/cord/2010mtg/

On-Site Registration and Badge Pickup Schedule at the Anaheim Marriott:

Wednesday	May 26	4:00 p.m.–8:00 p.m.
Thursday	May 27	7:00 a.m.–4:00 p.m.
Friday	May 28	7:30 a.m.–4:00 p.m.
Saturday	May 29	7:30 a.m.–noon

Don't forget.

Early

Registration

Deadline is

April 26, 2010



**PSAAPG
CONVENTION
PROGRAM
OVERVIEW**

Accommodations

Reservation deadline: April 26, 2010. A block of rooms has been reserved at a discounted rate of US\$99 + tax per night at the:

Anaheim Marriott
700 West Convention Way
Anaheim, CA 92802, USA
+1-800-228-9290

https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=2469911

Parking at the hotel during the meeting is US\$10/day. Be sure to specify the Anaheim Marriott located on Convention Way and use group code GSA-AAPG when making your reservations.

Special Events

- **Exhibit Opening:** Thursday, May 27, noon–1 p.m., Platinum Ballroom, Anaheim Marriott. Come enjoy hors d'oeuvres and refreshments.
- **Icebreaker:** Thursday, May 27, 6–8 p.m., Anaheim Marriott. Hors d'oeuvres and a free drink.
- **Keynote Address.** Friday, May 28, 5:30–6:30 p.m., Dr. Lucile M. Jones, U.S. Geological Survey.
- **Pacific Section AAPG Luncheon:** Friday, May 28, 11:30 a.m.–1:30 p.m. \$65.
- **Society of Petroleum Engineers Luncheon:** Friday, May 28, 11:30 a.m.–1:30 p.m. \$65.

Business Meetings

Cordilleran Section GSA Annual Board Meeting

Thursday, May 27
7:00–8:00 a.m.

Pacific Section AAPG Foundation Meeting

Thursday, May 27
4:00–5:00 p.m.

Pacific Section Members are invited to attend

Pacific Section AAPG Executive Committee Meeting

Thursday, May 27
5:00–6:00 p.m.

Pacific Section Members are invited to attend

Cordilleran Section GSA Annual Business Meeting

Thursday, May 27
5:00–6:00 p.m.

AAPG House of Delegates Breakfast

Thursday, May 27
7:00–8:00 a.m.

PSAAPG CONVENTION TECHNICAL SESSIONS

*SYMPOSIA



Cordilleran Section, GSA

♦ Debating the Connections between the Plutonic and Volcanic Rock Record

Drew Coleman, University of North Carolina, dcoleman@unc.edu

Olivier Bachman, University of Washington, bachmano@u.washington.edu

The link between the plutonic and volcanic rock records is a contentious petrology and tectonic topic. Invited and volunteered speakers will present opposing positions followed by moderated discussion on geochemical links, implications for the “room problem,” differentiation mechanisms, geophysical evidence, and the geochronologic record, along with an accompanying poster session.

Pacific Section, SEPM

♦ Using Basin Analysis and Geochemistry to Reconstruct the San Andreas Fault System: A Symposium in Honor of John Crowell, Tor Nilsen, Tom Dibblee, and Perry Ehlig

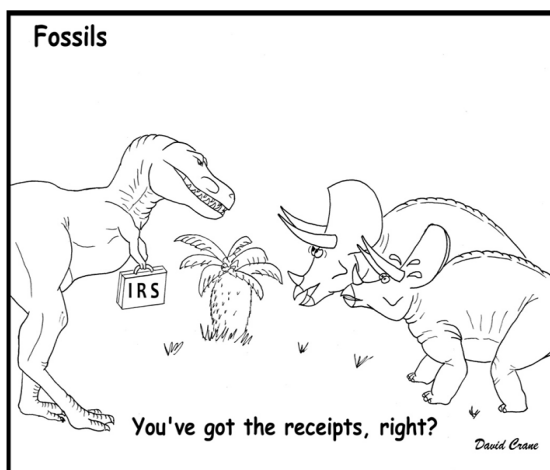
Ray Ingersoll, UCLA, ringer@ess.ucla.edu

Eric Hendrix, Mission Geoscience/UCLA, edhendrix@missiongeo.com

Ron Cole, Allegheny College, ron.cole@allegheny.edu

This session will highlight improvements in the paleogeographic reconstruction of California that integrate multidisciplinary tools, such as sedimentary history, provenance signatures, and geochemical trends of offset basins and crystalline terrains.

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TECHNICAL
SESSIONS**





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Cordilleran Section, GSA

♦ Sierra Nevada Microplate-Basement and Basins

Jason Saleeby, California Institute of Technology, jason@gps.caltech.edu

Zorka Saleeby, California Institute of Technology, zorka@gps.caltech.edu

♦ Tectonic Evolution of the Southern Big-Bend Region, San Andreas Fault

Doug Yule, CSU-Northridge, j.d.yule@csun.edu

Jonathan Matti, USGS, jmatti@usgs.gov

James Spotila, Virginia Tech, spotila@vt.edu

♦ Terrestrial and Marine Records of Late-Quaternary Climate from Western North America–Eastern Pacific: Developments

Comparisons, and Directions.

Matthew E. Kirby, CSU-Fullerton, mkirby@fullerton.edu

Sarah Feakins, University of Southern California, feakins@usc.edu

Kathleen Johnson, UC-Irvine, kathleen.johnson@uci.edu

Rob Negrini, CSU-Bakersfield, rnegrini@csub.edu

♦ Advances in Understanding Magma Petrogenesis and Eruption Dynamics at Basaltic Monogenetic Volcanoes

Brandon Browne, CSU-Fullerton, bbrowne@fullerton.edu

Nancy Riggs, Northern Arizona University, nancy.riggs@nau.edu

♦ Active Tectonics of the Eastern California Shear Zone–Walker Lane Belt

Kurt Frankel, Georgia Tech, kfrankel@gatech.edu

Plamen Ganey, University of Southern California, ganev@usc.edu

♦ New Insights into Tectonics of the Central California Coast Ranges—The Link between Los Angeles and San Francisco

Russell W. Graymer, USGS, rgraymer@usgs.gov

Victoria Langenheim, USGS, zulander@usgs.gov

...Cordilleran Section, GSA*(Continued from page 6)*♦ Late Neogene Tectonics and Deformation along Active Faults East of and Including the San Andreas–San Jacinto Fault ZonesChris Menges, USGS, cmenges@usgs.govDave Miller, USGS, dmiller@usgs.gov♦ Late Pleistocene and Holocene Glaciation in Western North AmericaArjen Stroeven, Stockholm University, arjen.stroeven@natgeo.su.seJohn Clague, Simon Fraser University, jclague@sfu.ca♦ Enhancing Societal Relevance in Introductory Geoscience EducationElizabeth Nagy-Shadman, Pasadena City College, eanagy-shadman@pasadena.eduMartha House, Pasadena City College, mahouse@pasadena.eduBryan Wilbur, Pasadena City College, bcwilbur@pasadena.edu♦ Theory and Practice: Engineering Geology in the CordilleraKim Bishop, CSU–Los Angeles, kbishop@calstatela.edu♦ New Insights into the Petrology of Cordilleran BatholithsDiane Clemens-Knott, CSU-Fullerton, dclemensknott@fullerton.eduDoug Morton, USGS and UC-Riverside, douglassmmorton@gmail.com♦ Detrital Zircon Studies in Western North AmericaGeorge Gehrels, University of Arizona, ggehrels@email.arizona.eduAlexander Pullen, University of Arizona, apullen@email.arizona.edu**Pacific Section, SEPM**♦ The Triassic Aftermath and Recovery from the End-Permian Mass ExtinctionAdam Woods, CSU-Fullerton, awoods@fullerton.eduDave Bottjer, Univ. of Southern California, dbottjer@usc.edu♦ Climate-Biosphere Interactions through TimeNicole Bonuso, CSU-Fullerton, nbonuso@fullerton.eduMatthew Clapham, UC-Santa Cruz, mclapham@ucsc.edu

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Pacific Section, AAPG

♦ Reservoir Modeling

Tad Gladczenko, Chevron Research, tgladczenko@chevron.com

♦ Fault-Associated Diagenesis and Fluid Flow

James Boles, UC-Santa Barbara, boles@geol.ucsb.edu

♦ Miocene Tectonics and Structural Evolution of Coastal Southern California

Nate Onderdonk, CSU-Long Beach, nonderdo@csulb.edu

♦ Wilmington Oil Field

Don Clarke, Consulting Geologist, labasindon@gmail.com

♦ Newport-Inglewood Fault Zone

♦ Oligocene and Early Miocene Clastic Reservoirs of California

♦ California Oil Fields (Posters)

Western Region, Society of Petroleum Engineers (SPE)

♦ Carbon Sequestration and Oil Fields

♦ Petroleum Resources Offshore California

♦ Reservoir Geophysics: Extract More out of Your Reservoir

Cordilleran Section, GSA / Pacific Section, AAPG

♦ Managing Groundwater in the Cordillera

W. Richard Laton, CSU-Fullerton, wlaton@fullerton.edu

John Foster, CSU-Fullerton, jfoster@fullerton.edu

Matthew W. Becker, CSU-Long Beach, mbecker3@csulb.edu

Barry Hibbs, CSU-Los Angeles, bhibbs@calstatela.edu

♦ Cordilleran Section, GSA/Pacific Section, AAPG/Pacific Section, SEPM/Council of Undergraduate Research (CUR)

♦ Undergraduate Research in Geoscience (Posters)

Tara Kneeshaw, CSU-Fullerton, tkneeshaw@fullerton.edu

Jeff Marshall, Cal Poly Pomona, marshall@csupomona.edu

Andre Ellis, CSU-Los Angeles, aellis3@calstatela.edu

PSAAPG CONVENTION FIELD TRIPS



Pliocene-Quaternary Tectonic Evolution of the Northern Eastern California Shear Zone. Monday—Wednesday, May 24-26.

Kurt Frankel, kfrankel@gatech.edu
 Nancye Dawers, ndawers@tulane.edu
 Plamen Ganey, ganev@usc.edu
 Eric Kirby, ekirby@geosc.psu.edu
 Jeff Lee, jeff@geology.cwu.edu
 Lewis Owen, lewis.owen@uc.edu
 Fred Phillips, phillips@nmt.edu
 Jeff Unruh, unruh@lettis.com

Max.: 25; min.: 15. Cost: US\$320. Includes two breakfasts, two snacks, two nights lodging, transportation, and guidebook.

This field trip will start and end in Anaheim, making a loop through the northern ECSZ. The eastern California shear zone (ECSZ) extends for more than 800 km through the Mojave Desert northward along the western edge of the Basin and Range. This system of predominantly right-lateral faults is thought to accommodate nearly 25% of Pacific–North America plate boundary deformation. Participants will explore active deformation along the Panamint Valley and Hunter Mountain faults, dextral and extensional faulting in Fish Lake Valley and Queen Valley, and active faulting in the Volcanic Tableland, Round Valley, and the Coso Range.

Late Proterozoic, Paleozoic and Mesozoic Rocks and Structures in the Victorville-Helendale Region, Mojave Desert, California. Tuesday—Wednesday, May 25-26.

Howard Brown, Omya, California, howard.brown@omya.com
 Janis Hernandez, California Geological Survey, janis.hernandez@conservation.ca.gov

Max.: 18; min.: 10. Cost: US\$270. Includes breakfast, two lunches, snacks and refreshments, 1 night lodging, and transportation.

We will visit the Victorville region of the Mojave Desert to see a variety of geologic features, including (1) multiple folded and metamorphosed Late Proterozoic and Paleozoic miogeoclinal rocks; (2) folded Lower Jurassic Fairview Valley Formation meta-sediment; (3) Middle Jurassic Lower Sidewinder volcanic rocks; (4) syn-and post-Lower Sidewinder extensional deformation including the Sparkhule Mountain slide; (5) younger Jurassic low-angle extensional and compressional deformation; and (6) still younger intrusive rocks, gravity slides/breccia sheets, faulting. Stops will include easy to moderate hikes to reach outcrops or overview points, and numerous large-scale detailed maps will be displayed and discussed.

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Anatomy of an Anachronistic Carbonate Platform: The Lower Triassic of the southwestern United States and its Relationship to the Recovery from the Permian-Triassic Mass Extinction.
Tuesday – Wednesday, May 25–26.

Adam Woods, CSU-Fullerton, awoods@fullerton.edu

David Bottjer, University of Southern California, dbottjer@usc.edu

Max.: 15; min.: 10. Cost: US\$185. Includes transportation and lodging; meals are not included.

Participants will examine several classic localities that have been the focus of research attempting to reconstruct environmental conditions in the wake of the Permian-Triassic mass extinction and determine the relationship between the recovery interval and Mesozoic biotic trends. The trip will provide a complete picture of carbonate environments following the Permian-Triassic mass extinction, ranging from deep, outer shelf environments to shallow subtidal environments. Sites to be visited include the deep water facies of the Union Wash Formation at Darwin, California; shallow water stromatolites from the Union Wash Formation at Cerro Gordo, California; and middle shelf facies and corresponding reefal stromatolites from the Virgin Limestone at Lost Cabin Springs, Nevada.

Soledad and Plush Ranch Basins: Mid-Tertiary Extensional Terrane Dismembered by the San Andreas Fault System.
Saturday – Monday, May 29–31.

Raymond V. Ingersoll, UCLA, ringer@ess.ucla.edu

Eric Hendrix, Mission Geoscience Inc. & UCLA, edhendrix@missiongeo.com

Ron Cole, Allegheny College, ron.cole@allegheny.edu

Max.: 40; min.: 15. Cost: US\$255 includes transportation, two nights lodging (double occupancy), two lunches, snacks and drinks, and guidebook; does not include dinners or breakfasts.

This trip will revisit two “classic localities” originally identified by John Crowell, Perry Ehlig, and their students during the 1950s to 1970s as evidence for large-magnitude displacements along faults of the San Andreas system. Participants will observe alluvial, rockslide, lacustrine, and volcanogenic deposits, which confirm similar half-graben evolution of both basins, with similar crustal extension direction (N-NW). Syn-sedimentary detachment faulting has been identified in at least one of the two basins; potential impacts of detachment evolution on sedimentation and subsequent basin deformation will be observed, and the relative importance of these offset basins in understanding evolution of the San Andreas fault system will be discussed.

Exploring the Whittier and San Andreas Faults.**Sunday, May 30, 7:30 a.m.–5:30 p.m.**Galen R. Carlson, CSU-Fullerton; gcarlson@fullerton.eduKris Weaver-Bowman, Mt. Sac Community College; kweaverbowman@mtsac.edu**Max.: 25; min.: 8. Cost: US\$80. Includes transportation and a guidebook.**

This field trip is specifically designed for 6th–12th-grade science teachers but is open to anyone. We will visit several locations along the San Andreas and Whittier faults to examine features produced by active faulting, including scarps and offset drainages. We will also look at where these and other local faults lie with respect to human structures and discuss how California deals with faults that lie in the way of development. Each field trip stop is bus-accessible for out-of-classroom lessons on earthquakes and their impacts. This trip is related to the workshop, “When the Classroom Shakes: Tools for Teaching K–12 Students about Earthquakes in Their Front Yard,” on Saturday, May 29, but one is not a prerequisite for the other.

**Hydrogeology of Icehouse Canyon, San Gabriel Mountains, California. Sunday, May 30.**Jonathan A. Nourse, Cal State Polytechnic University, janourse@csupomona.edu**Max.: 21; min.: 10. Cost: US\$90, includes transportation and parking passes, lunch, and snacks.**

For hydrogeology and nature enthusiasts, Icehouse Canyon, with its Quaternary deposits, crystal-clear pools, and redwoods, is one of Southern California's true gems. This trip explores the geologic reasons for flow variations in Icehouse Creek. Gaining and losing reaches of the creek documented by many years of stream gauge records will be related to vivid geologic controls that include spring discharge from water-saturated landslide deposits, bedrock constrictions of alluvial aquifers, and infiltration into fault-bounded gravel deposits. The morning itinerary involves a moderately strenuous 1.5-mile hike up Icehouse Canyon trail, with multiple stops to view stream-gauging sites and perennial springs. Afternoon stops will contrast Icehouse Canyon watershed with the adjacent Upper San Antonio Canyon watershed, which records markedly different base-flow recession. We will discuss likely reasons for this difference while exploring the Quaternary and bedrock geology near San Antonio Falls and Upper Manker Springs. This excursion takes place during the peak of the runoff season when spring discharge and stream flow are most dramatic.

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Quaternary Geology of the San Bernardino Mountains and Their Tectonic Margins. Sunday–Tuesday, May 30 – June 1.

Doug Yule, CSU-Northridge, j.d.yule@csun.edu

Jonathan Matti, USGS, matti@usgs.gov

James Spotila, Virginia Tech, spotila@vt.edu

Max.: 30; min.: 15. Cost: US\$260. Includes three nights lodging, meals (2B, 3L, 1D), transportation, and field trip guide. Some meals are not included (1B, 2D).

This trip will visit key sites illustrating the temporal and spatial Quaternary geologic evolution of the San Bernardino Mountains. The Quaternary record here reveals a compelling story of fault reorganization, uplift, and erosion related to oblique convergence at the southern “Big Bend” of the San Andreas Fault. In San Geronimo Pass, an ongoing debate about the seismic hazard facing southern California centers on whether through-going rupture of the San Andreas system can occur here. The 1992 Joshua Tree–Landers–Big Bear earthquake sequence revealed the significance of the fault system that bounds the eastern margin of the range. To the north, impressive thrust scarps of the North Frontal fault bound the range but appear to have last ruptured thousands of years ago. Important questions include (1) can tectonogeomorphic features owing to local block adjustments be distinguished from features owing to broader plate margin interactions; (2) do tectonic structures along the Mojave Desert margin of the range have similar time-space histories as structures along the southeast margin; and (3) what is the evidence for a two-sided uplift history for the San Bernardino Mountains within the broader San Andreas system.

Geologic History, Eruptive Stratigraphy, and Ongoing Volcanic Unrest at Long Valley Caldera and Mammoth Mountain.

Sun.–Wed., 30 May–2 June.

Wes Hildreth, hildreth@usgs.gov

David Hill, hill@usgs.gov

Brandon Browne, bbrowne@fullerton.edu

Jorge Vazquez, jvazquez@usgs.gov

Max.: 20; min.: 8. Cost: US\$410, includes transportation, three nights lodging at the Sierra Nevada Aquatic Research Laboratory (SNARL) dormitory, professionally catered meals while at SNARL, and gondola tickets to the Mammoth Mountain summit.

Eastern California possesses a rich volcanic history characterized most notably by the cataclysmic caldera-forming eruption of Long Valley ~760,000 years ago and numerous mafic scoria cones, silicic domes, and their associated lavas and pyroclastic deposits near Mammoth Mountain, Glass Mountain, and the Coso and Big Pine volcanic fields. The trip will highlight a revised understanding of the region’s volcanic history based on new results from Mammoth Mountain and new studies of Holocene mafic eruptions in the southern Inyo volcanic chain, as well as a review of classic localities where key features of the Bishop Tuff’s emplacement history are well preserved. Stops include the Chalk Bluffs and Owens Gorge, Lookout Mountain, Deadman Creek Dome and flow, Mammoth Mountain (flanks and summit), Horseshoe Lake, and the Big Pine Volcanic Field.

Monterey Formation of the Los Angeles Basin.**Tuesday, May 25, 7:00 a.m. – 6:00 p.m.**Richard J. Behl, behl@csulb.eduStefano Mazzoni, stefano_mazzoni@oxy.com**Max.: 40; min.: 12. Cost: US\$90. Includes transportation, lunch, and snacks.**

Cosponsored by LA Basin Geological Society. The Miocene Monterey Formation is a distinctly siliceous and organic-rich deposit with stratigraphic equivalents that span much of coastal California and the Pacific Rim. It is California's primary petroleum source rock and an important reservoir in some areas. It also records key middle to late Miocene climatic, oceanographic, and tectonic transitions. It has been well studied in the coast ranges of central California, the Salinas basin, and Temblor range/San Joaquin basin; however, it has been little studied in the highly petroliferous Los Angeles basin. The Monterey and its stratigraphic equivalents—the Puente and Modelo formations—underlie and source most of L.A.'s oil fields, but they only outcrop in the uplifted terrains that surround the basin. This field trip will visit key localities of the Monterey Formation in Newport Beach, Crystal Cove State Park, and the Palos Verdes Peninsula to examine the lithofacies and see how they differ from better studied areas in California.



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FIELD
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Sedimentology and Facies Architecture of Channelized Slope System: Capistrano Formation, San Clemente, Southern California. Wednesday, May 26, 7:00 a.m. – 6:00 p.m.

Kirt Campion

Stefano Mazzoni, stefano_mazzoni@oxy.com**Max.: 35; min.: 10. Cost: US\$90. Includes transportation, lunch, and snacks.**

Cosponsored by LA Basin Geological Society. Outcrops of the Capistrano Formation located in the vicinity of San Clemente State Beach provide excellent exposures of deepwater channels formed in a slope setting and filled with a variety of turbidite lithofacies. This trip will focus on the architecture of the Capistrano, which consists of a number of channels and channel complexes, and the distribution of turbidite lithofacies within this architectural framework. We will walk along the base of sea cliffs to examine exposures, so bring comfortable shoes, a small pack for water, and a camera (no sampling/rock hammers allowed).



**PSAAPG
CONVENTION
SHORT
COURSES &
WORKSHOPS**

PSAAPG CONVENTION SHORT COURSES & WORKSHOPS

Introduction to U-Th-Pb Geochronology Using a Laser- Ablation Multicollector ICP–Mass Spectrometer.

Wednesday, May 26, 9:00 a.m. – 5:00 p.m.

George Gehrels, ggehrels@email.arizona.edu

Alex Pullen, apullen@email.arizona.edu

Arizona LaserChron Center, Univ. of Arizona. Cost: US\$100. Includes lunch and workbook. Max.: 25.

This course focuses on the use of laser-ablation multicollector inductively-coupled-plasma–mass spectrometry to make rapid and accurate U-Th-Pb isotopic measurements. This course is ideal for graduate students but is inclusive to all researchers interested in familiarizing themselves with the U-Th-Pb decay system, measurement methodologies, pitfalls, data analysis, igneous and detrital geochronology, and future directions.

Introduction to Geographic Information Systems (GIS) using ArcGIS for Geological and Environmental Science Applications. Cosponsored by ESRI. Wednesday, May 26, 9:00 a.m.–5:00 p.m.

Toni Fisher, ESRI, tfisher@esri.com

Cost: US\$80, includes lunch and publications. Max.: 20.

Participants will be introduced to the use of GIS in geosciences and environmental-related applications; prior experience with ArcGIS is not necessary. A brief introduction to spatial concepts and GIS using ArcGIS, ArcMap, and Spatial and 3D Analyst extensions will be followed by hands-on creation of a project covering many analysis techniques (geoprocessing using Toolbox tools and ModelBuilder). Use of Geodatabase Model schema and resources for accessing data will be also explored.

Petrel Session 1—Basics and Data Visualization. Wednesday, May 26, 8:00 a.m.–noon.

Max.: 24. Cost: US\$100. Includes workbook and course materials. Instructed by Schlumberger personnel.

Schlumberger's Petrel software delivers collaborative workflows with best-in-class technology and leading innovation that seamlessly unites the subsurface domains of geophysics, geology, geological modeling, reservoir engineering, and drilling. This session will focus on navigating and working within a 3-D window in Petrel plus, some hands-on with other windows, and visualization techniques in Petrel. It will cover understanding the Petrel data structure as well as using the gridding algorithms in Petrel for mapping or 2-D surface generation. Petrel experience is not a requirement; this session is not a prerequisite for Session 2.

Petrel Session 2—Petrel Geostatistical Overview.**Wednesday, May 26, 1:00 – 5:00 p.m.**

Cost: US\$100. Includes workbook and course materials. Instructed by Schlumberger personnel.

This session will take users through the basics of facies and property modeling in Petrel with a focus on the geostatistical methods available in the application. Participants will get an opportunity to work directly on 3-D geocellular model, and should come away with a basic understanding of variograms, geostatistical algorithms, and menus for facies and property modeling. Petrel experience is not a requirement; Session 1 is not a prerequisite for this session.

When the Classroom Shakes: Tools for Teaching K–12 Students about Earthquakes in Their Front Yard.**Saturday, May 29, 9:00 a.m. – 3:00 p.m.**

Kristin Weaver Bowman, kweaverbowman@mtsac.edu

Becca Walker, rwalker@mtsac.edu

Annie Scott, anniejscott@hotmail.com

Robert de Groot, degroot@usc.edu

This course is FREE (but you must be registered for the meeting) thanks to the generosity of the Southern California Earthquake Center and the Dept. of Geological Sciences at CSUF. Includes some course materials; does not include lunch; please bring a bag lunch or plan to purchase your lunch at (or near) the hotel. Max.: 30.

This workshop is designed for middle and high school science teachers, who will learn how to bring local earthquake geology and hazards into their classrooms and explore standards-based classroom activities for teaching earthquakes. All K–12 and pre-service teachers are welcome. This course is a companion to the field trip, “Exploring the Whittier and San Andreas Faults” on Sun., 30 May; however, it is not a prerequisite.

Less Talk, More Action: Strategies that Improve Learning by Engaging Students. Saturday, May 29, 3:30 – 4:30 p.m.

David Steer, The University of Akron, steer@uakron.edu

FREE, must register to attend. Max.: 30

This workshop capitalizes on the growing trend toward introducing active learning in geoscience-related classes. Participants will be given a schema for developing their own materials and an opportunity to develop one or more of their own activities, and will leave the workshop with the pedagogical foundation and in-class learning resources they need to better engage their students. Handouts will be provided that guide participants through an evaluation-level exercise for designing teaching and learning activities and for constructing their own classroom activities.



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PSAAPG CANDIDATES FOR 2010–2011

PRESIDENT-ELECT



John A. Minch, Ph.D.

Employment:

2003-Present - Santa Barbara Museum of Natural History - Dibblee Map Editor, working on Publishing of Dibblee Geologic maps - Published 300 maps of 350 quadrangles in last three years.

1974-Present - John Minch & Associates, Inc. - Principal of Environmental Services consulting company. Hundreds of environmental projects and reports.

1972-1995 - Saddleback College - Professor of Geology - Teaching geology, various years as Department Head.

Education:

B.A. [1964] and a M.S. [1966] in geology from San Diego State University
PhD [1972] in geology and paleontology from the University of California, Riverside
Professional Geologist, State of California #3269

Society Membership:

American Association of Petroleum Geologists [30 years]
PSAAPG [35 years], Honorary Life member
Geological Society of America [40 years]
Society of Economic Paleontologists and Mineralogists [40 years],
Sociedad Geologia Peninsular, Founding Secretary, Honorary Life member
Coast Geological Society

Society Service:

National AAPG service has included: General Chairman of the 1996 National Convention, San Diego, CA; Member of House of Delegates, 1995-1997; Member of House of Delegates, 2004 to 2007; Member of Ad Hoc Committee on Sections, 2004-2007; Member of AAPG Advisory Council [PACSEC representative]; Chair-elect of AC Officer Nomination Committee; Associate Editor E&P Bulletin; Annual participation in AAPG leadership conference.

Pacific Section AAPG Service:

General Chairman of the 1974 Convention in San Diego, CA; General Chairman of the 1984 Convention in San Diego, CA; service over years on other convention committees; Treasurer, Secretary, President, Past-President of Coast Geological Society.

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MAILED TO THE
MEMBERS IN LATE
APRIL 2010**

PSAAPG CANDIDATES FOR 2010–2011

PRESIDENT-ELECT

Daniel E. Schwartz

Dan Schwartz was born and raised on the south slope of the Santa Monica Mountains, overlooking the LA Basin and the Pacific. He attended University of California at Berkeley, graduating with a bachelor's degree in Geology in 1974. He moved to Texas for graduate school at UT Dallas, graduating with a PhD in Geology in 1978. During his time in Dallas, Dan worked with Dick Moiola at Mobil R&D, which sparked his interest in working in the Petroleum Industry. Dan took a job with Shell R&D in Bellaire, Texas in 1978. He worked on the Belridge acquisition (Diatomite evaluation), deep water exploration and development, and EOR projects in Canada and West Texas. He became Head of Production Geology Research in 1983. He left research in 1985 and transferred to Bakersfield as Shell's Division Geological Engineer. During his time in California, Dan worked on fields from the Sacramento Basin to offshore San Pedro, from Belridge and Ventura, to offshore Molino and Santa Maria. In 1992 he took an assignment with Shell Expro in Aberdeen, Scotland. He became Head of Production Geology and Geophysics for Expro in 1994. In 1996 he returned to Houston and worked in a variety of positions in international New Business Development, and finance. He returned to E&P with Shell Deepwater Services, leading the Basin Evaluation and Stratigraphy team, and was Exploration Manager for Shell Deepwater Morocco. In 2003 Dan became Chief Geologist for Shell Oil Company. In 2005 he became Chief Petroleum Engineer and Regional Exploration Consultant in Shell International E&P in Houston. In 2009 he was seconded to Aera Energy in Bakersfield, and has been working on new opportunities in the San Joaquin Basin.

Dan has been a member of AAPG for 14 years and of SEPM for over 30.

Pacific Section AAPG Service:

General Chairman for the Pacific Section Convention in Bakersfield in 1991, and is currently a member of the Technical Advisory Committee for AAPG.



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PSAAPG CANDIDATES FOR 2010–2011

VICE-PRESIDENT



Hilario Camacho

Employment:

2009-2010 Vice President of Earth Sciences and Exploration, Signal Hill Petroleum, Inc.
 2003-2009 Engineering and Geology Manager. Signal Hill Petroleum, Inc.
 1997-2003 Chief Geologist. Signal Hill Petroleum, Inc.
 1997-2003 Lecturer, Department of Geological Sciences, CSU Long Beach.
 1998-1999 Summer Intern, ARCO Research CIS group.
 1998-2000 Teaching/Research Assistant. UC Santa Barbara.
 1994-1997 Teaching Assistant. CSU Long Beach.
 1995-1997 Summer Internship/Senior Engineering Assistant. THUMS Long Beach Co.
 1993-1994 Staff Geologist, RMW PaleoAssociates.

Education:

Ph.D. Geology, University of California, Santa Barbara, 2004. Dissertation: I. Implications for reservoir simulations from a new depositional turbidite model. II. Evidence for generation and migration of hydrocarbons along thermally anomalous faults in the Los Angeles Basin, California.

M.S. Geology, California State University, Long Beach, 2000. Thesis: Petrographic evidence for the nature of vertical permeability barriers; Temple Avenue Fault, Wilmington Oil Field, Long Beach, California.

B.S. Geology 1992 University of Granada, Spain.

Society Membership:

American Association of Petroleum Geologists
 Society of Petroleum Engineers
 Society of Exploration Geophysicists
 Los Angeles Basin Geological Society
 PSAAPG
 European Association of Organic Geochemists

Interests:

I'm particularly interested in reading about the history of science and the development of scientific thought. I collect old science books, I like classical music and theater; and above all I like spending time with my family.

Society Service:

2010 Technical program co-chair GSA cordilleran section/PSAAPG Meeting.

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PSAAPG CANDIDATES FOR 2010–2011

VICE-PRESIDENT

Jeff Gartland

Work History:

2009 - Present, Oxy/Vintage Production California, LLC, Bakersfield, Asset Team Lead, Ventura Basin

2007 – 2009, Oxy/Vintage Production California, LLC, Bakersfield, Geologist, Ventura Basin

2000 – 2007, Occidental Oil and Gas Corp., Exploration Manager South America, Houston; Geologist Middle East technical team, Houston

1982 – 2000, Mitchell Energy and Development Corp, The Woodlands, TX Geologist/Exploration Manager, Gulf Coast onshore and offshore

1979 – 1982 Chevron, New Orleans and Lafayette Geologist, S. Texas onshore and offshore Louisiana

Education:

1974, Michigan State University, B.S. Geology

1979, University of Florida, M.S. Geology

Society Memberships:

2009-2010 PSAAPG Secretary

SJGS – PSAAPG

Houston Geologic Society

SPE



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**PSAAPG CANDIDATES
FOR 2010–2011****SECRETARY****Tony Reid****Employment:**

2010 to present: Chief Geologist, Occidental of Elk Hills, Bakersfield

2008-2009: Exploration Geologist, Occidental and Vintage Production California, for the San Joaquin and Ventura basins

2005-2008: Chief Geologist, Occidental of Oman, Muscat, Oman

2001-2005: Exploration Geologist, Occidental Oil and Gas, Houston, for Far East and Africa projects

1985-2001: Development Geologist, Bechtel Petroleum Operations (later Occidental), for the Elk Hills field, California

1978-1985: Development and Exploration Geologist, Getty Oil Company (later Texaco), for the San Joaquin and Salinas basins.

Education, Certification and Registration:

BS (1976) and MS (1979), California State University, Northridge

Hydrogeology Certificate (1995), California State University, Bakersfield

California Registered Geologist #3876

Society Memberships:

AAPG and Pacific Section AAPG

San Joaquin Geological Society

Society Service:

Pacific Section SEPM Secretary, 1981

President, San Joaquin Geological Society, 1998

AAPG House of Delegates representative for the SJGS, 1990's

Pacific Section AAPG Service:

Field trip co-leader for PS AAPG and SJGS trips in 1990, 1991, 1999, 2000

Field trip coordinator, PS AAPG 1991 meeting

Short course co-instructor for PS AAPG meetings in 1993 and 1997

Announcement/Program Editor, PS AAPG 1997 meeting

Honors and Awards:

PS AAPG Distinguished Service Award, 2005

PS AAPG Vice President, 2009-2010

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PSAAPG CANDIDATES FOR 2010–2011

SECRETARY

Marieke Gaudet

Employment:

2007- 2010 Geologist, THUMS Long Beach Company
2010- Present - Geologist, OXY USA, Oxy Los Angeles Basin
Business Unit

Education:

2006 Colorado School of Mines, BSc. Geological Engineering.
She enjoyed both hard and soft rock education, as well as her
teaching position for the core requirement earth sciences class
offered there.

Society Memberships:

Los Angeles Basin Geological Society
PSAAPG

Interests:

Enjoys all things outdoors. She enjoys skiing, biking, her horses, and travelling.

Society Service:

2009-Present, LABGS Secretary

Awards:

2006: Brunton Award



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PSAAPG CANDIDATES FOR 2010–2011

EDITOR-IN-CHIEF



Edward Washburn

Professional Experience:

Summer Internship- Phillips Petroleum Company (Odessa, TX), 2001

Summer Internship- ChevronTexaco (Bakersfield, CA), 2002

Development Geologist- Chevron (Bakersfield, CA), 2004-present

Technical Team roles- Midway Sunset, Coalinga, San Ardo, Kettleman Hills

Asset Development Team roles- Cymric Diatomite, Kettleman Hills

Education:

B.S. Geology- Illinois State University (2000)

Undergraduate research project- Heavy Mineral and Provenance Analysis of the Pennsylvanian Caseyville Sandstone (Central Illinois)

M.S. Geology- University of Kansas (2004)

Research Assistant, Kansas Geological Survey

Master's Thesis Title- Paleotopography and Sea-Level Controls on Facies Variability and Distribution in the Upper Pennsylvanian (Missourian) Plattsburg Limestone, NE Kansas

Pacific Section AAPG Service:

Currently acting as Earth Science Recruiting Coordinator for the San Joaquin Valley.

Field trip coordinator for the PSAAPG-SPE joint convention held in Bakersfield in April 2008.

**PSAAPG
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EDITOR-IN-CHIEF**

PSAAPG CANDIDATES FOR 2010–2011

EDITOR-IN-CHIEF

Richard “Kevin” Keys

Petroleum Engineering Technician, Bakersfield, CA.
Born 1959, Taft, CA.

Experience

2009-Present: Bureau of Land Management, Petroleum Engineering Technician, Bakersfield, CA.
1998-2009: Occidental of Elk Hills, Inc., Staff Geoscience Specialist, Bakersfield, CA.
1994-1998: Bechtel Petroleum Operations, Inc., Geoscience Technician, Bakersfield, CA
1991-1994: Scientific Software-Intercomp, Inc., Geoscience Technician, Bakersfield, CA.
1989-1990: U.S. Department of Energy, Geological Intern - Elk Hills, Bakersfield, CA.

Academic Degrees

1986: Summer Study Abroad, National Chengchi University, Taipei, Taiwan.
1987: B.S., Geology, California State University - Bakersfield.

AAPG Activities

AAPG, Active member.

Candidate Statement:

I am honored and sincerely pleased to have been asked to serve the Pacific Section as Editor-in-Chief.

AAPG publications serve as a direct and distinguished measure of the professional experience, technical excellence, and scientific expertise of our membership. In this regard, AAPG publications must provide timely, concise, focused, and technology-driven information that can be rapidly assimilated and incorporated into member projects, research, and operations.

Thank you very much for the opportunity to serve the Pacific Section as Editor-in-Chief.



**PSAAPG
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FOR
2010–2011
EDITOR-IN-CHIEF**

**PSAAPG CANDIDATES
FOR 2010–2011****TREASURER-ELECT****DeDe Crough****Education:**

1986 South Dakota School of Mines and Technology, Rapid-City, South Dakota, BS Geological Engineering

Employment:

1997 - present Geologist Aera Energy LLC, Bakersfield
1995 - 1997 Geological Engineer CalResources, Bakersfield;
1986 - 1995 Geological Engineer Shell Western E&P, Bakersfield, California;

AAPG Involvement:

1986 - present AAPG Member since 1997

Pacific Section AAPG Service:

AAPG/SEPM/SEG convention committee

**Jana McIntyre****Education:**

B.S. Geology UC Davis 1984
M.S. Geology Oregon State 1990

Employment:

1985-1986 COFRC: Geotech
1990-1997 BPOI: Geologist
1998-2008 Oxy Elk Hills/ORCA/Vintage: Geologist

Society Work:

SJGS Treasurer 2007-2008

PACIFIC PETROLEUM GEOLOGY LOCAL SOCIETIES

ALASKA GEOLOGICAL SOCIETY

Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the BP Energy Center (1014 Energy Court) from 11:30 a.m. to 1:00 p.m. The hot lunch cost is \$20 for members with reservations; \$22 for non-members with reservations; and \$25 without reservations. The box lunch cost is \$13 for members with reservations; \$15 for non-members with reservations; and \$18 without reservations. For reservations, call the AGS reservation voice mail at 907-258-9059 or contact David Hite at hiteconsult@acsalaska.net by noon on Monday before the meeting.

President:	Tom Homza	907.770.3701	thomas.homza@shell.com
President-Elect:	Tom Morahan	907.230.1672	tmorahan@petroak.com
Vice-President:	Ken Helmold	907.269.8673	ken.helmold@alaska.gov
Secretary:	Chad Hults	907.786.7417	chults@usgs.gov
Treasurer:	Allan Hunter	907.263.7947	alhunter@chevron.com
Past-President:	Jim Clough	907.451.5030	jim.clough@alaska.gov

Alaska Geological Society

P. O. Box 101288

Anchorage, AK 99510

www.alaskageology.org

907.770.3701

Contact: Tom Homza

COAST GEOLOGICAL SOCIETY

Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Poinsettia Pavilion, 3451 Foothill Road in Ventura. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner is \$18 (with reservations), \$25 (without reservations), or \$10 (students and K-12 teachers); the talk is free. For reservations, please email Christine White at cwhite@dcorllc.com or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.

President:	Mike Nelson	805.535.2058	president@coastgeologicalsociety.org
Past-President:	David Panaro	805.654.2327	pastpresident@coastgeologicalsociety.org
Vice-President:	Jon Schwalbach	661.665.5081	vicepresident@coastgeologicalsociety.org
Secretary:	Gina Teresa	805.662.6510	secretary@coastgeologicalsociety.org
Treasurer:	Ed Magdaleno	805.535.2086	treasurer@coastgeologicalsociety.org

Coast Geological Society

P. O. Box 3055

Ventura, CA 93006

www.coastgeologicalsociety.org

Contact: Muriel Norton

muriel@subsea-usa.com

PACIFIC PETROLEUM GEOLOGY LOCAL SOCIETIES

LOS ANGELES BASIN GEOLOGICAL SOCIETY

Luncheon meetings are held monthly September and October; and January through June, usually on the fourth Thursday of the month, in the Monarch Room at The Grand at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Lunch is served at 11:30 a.m., and the talk starts at 12:15 p.m. The cost is \$20 (with reservations), \$25 (without reservations), or \$0 (students are covered by Halliburton and Schlumberger). Reservations can be made online at www.labgs.org or by contacting Marieke Gaudet at 562.624.3364 or marieke_gaudet@oxy.com. Reservations must be made prior to Tuesday before the meeting.

President:	Bill Long	213.225.5900 x 205 william.long@breitburn.com
Vice-President / Program Chair:	Greg Hummel	213.225.5900 x 251 ghummel@breitburn.com
Treasurer:	Bert Vogler	562.432.1696 hvogler@kleinfelder.com
Secretary/webmaster:	Marieke Gaudet	562.624.3364 Marieke_Gaudet@oxy.com
Scholarship Program:	Jean Kulla	949.500.3095 k2mobile@msn.com

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). For reservations, leave your name and phone number at (925) 424-3669, or at danday94@pacbell.net before the meeting. Cost is \$5 per regular member; \$1 per student member; and \$1 per K-12 teachers (new!).

**Los Angeles Basin
Geological Society**
515 S. Flower Street
Ste. 4800
Los Angeles, CA 90071
www.labgs.org
Contact: Bill Long
213.225.5900 x 205

**Northern California
Geological Society**
9 Bramblewood Court
Danville, CA 94506-1130
www.ncgeolsoc.org
Contact: Barb Matz
Barbara.Matz@shawgrp.com

PACIFIC PETROLEUM GEOLOGY LOCAL SOCIETIES

NORTHWEST ENERGY ASSOCIATION

Breakfast meetings are held monthly September through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. Meeting time is at 7:30-9:00 a.m. The cost is \$15. For information or reservations, contact Treck Cardwell at 503-226-4211 ext. 4681.

President: Tim Blackwood tblackwood@pacificgeotechnicalllc.com
Secretary: Treck Cardwell t2c@nwnatural.com

Northwest Energy Association

P.O. Box 6679
Portland, OR 97228-6679
www.nwenergyassociation.org
Contact: Tim Blackwood
503.656.0156

SACRAMENTO PETROLEUM SOCIETY

Luncheon meetings held monthly January through November, on the third Wednesday of the month. Location: Club Pheasant Restaurant in West Sacramento. The meeting starts at noon. The cost is \$16-\$20. For information or reservations, contact Pam Ceccarelli at 916-322-1097 x 2 or Pam.Ceccarelli@conservation.ca.gov.

President: Rick Blake blake2@llnl.gov
Vice-President: Marc Brennen M.brennen@Termasource.com
Secretary/Editor/
Treasurer: Pam Ceccarelli Pam.Ceccarelli@conservation.ca.gov

Sacramento Petroleum Society

P.O. Box 571
Sacramento, CA 95812-0571
Contact: Rich Blake
925.422.9910

SAN JOAQUIN GEOLOGICAL SOCIETY

We have dinner meetings on the second Tuesday of the month at the American Legion Hall at 2020 "H Street" in Bakersfield. There is an icebreaker at 6:00 p.m., dinner at 7:00 p.m., and a talk at 8:00 p.m. Dinner is \$20 for members with reservations and \$25 for non-members; \$25 for members without reservations and \$30 for non-members without; and the talks are free.

President: Kurt Johnson kurt_johnson@oxy.com
President-Elect: Jack Grippi JGrippi@aeraenergy.com
Vice-President: Anne Draucker AnneDraucker@chevron.com
Secretary: Heidi Hoffower heidi.hoffower@chevron.com
Treasurer: Will Satterfield will_satterfield@oxy.com

San Joaquin Geological Society

P.O. Box 1056
Bakersfield, CA 93302
www.sjgs.com
Contact: Kurt Johnson
kurt_johnson@oxy.com



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