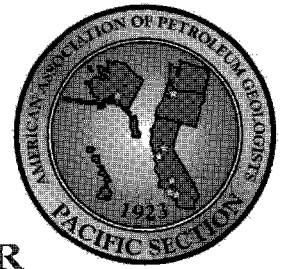
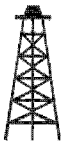


# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

January & February • 2004

## Message from the President: *Let's Educate 'Em*

Over the past year with war, continued terrorism, and general uncertainty in the Middle East, the debate over energy needs for the United States has again heated up. The reality of our continued dependence on imported energy, specifically oil and petroleum products, was emphasized this year as crude oil and natural gas prices rose and gasoline prices hit record highs throughout the country in the wake of the war in Iraq. Couple that with delivery disruptions in Arizona, and the general public has again been smacked with the reality that energy, in the form of oil and gas, is an essential commodity that we tend to take for granted. So what has the public reaction been? Develop our own reserves? Drill in the ANWR? Open up the offshore? My observation from news coverage as well as talking with people has been that, by and large, the public reaction has been more along the lines of: "big oil price manipulation again," "they used the war to raise gas prices," and "it's all a plot by the oil companies." And so it goes.

To me, typical reactions such as these point out continued ignorance concerning the complex processes and economics involved in finding and developing oil and gas reserves, as well as the downstream portions of the industry, such as refining and marketing. Public awareness and knowledge concerning energy issues and the resulting attitudes about oil and gas producers seem to have changed little since the oil embargoes and gasoline shortages of the 1970s. To a certain extent, these attitudes point out how ineffective the oil and gas business has been in promoting the industry by educating the public on what it takes to get oil from the ground and ultimately into our gas tanks.

Where am I going with all of this? Well, in the interest of both the health of our industry as well as the future security and prosperity of our nation, I believe it is more important now than ever before to educate the public about what we do and how important it really is to all of us. As geologists, we may not be able to address all of the intricacies of the politics and pricing of oil and gas, but we are uniquely positioned to educate the public on all that goes into the finding and producing of energy in the form of oil and gas. Think about it. Geologists are involved with initiation of a play concept, field development, secondary and tertiary recovery, and finally environmental remediation upon field abandonment. We also play key roles as environmental stewards during the life of an oil field in several ways, such as initiating

monitoring programs, conducting cleanups, and ensuring compliance with regulations.

One of the ways we can support and encourage education is through the Teacher of the Year Program. **Sandra Szymanski**, the new chair of our Youth Activities Committee, recently sent letters to all of the local societies encouraging them to actively participate in the program. I would also like to encourage all of our local societies to participate, as I believe one way to promote solid teaching of the earth sciences to our K-12 students is to recognize and reward those teachers who are doing a good job. Another way we can promote education is by making ourselves available to actually get into classrooms and make presentations to students. I've been somewhat amazed over the past few years at the enthusiasm my own kid's teachers have had about having a geologist come and talk to their class about the earth sciences and related applications. And the interest the kids demonstrate, let alone the questions, is also quite amazing. The bottom line is this — there is a real interest out there in what we as geologists are uniquely equipped to offer, and we should take advantage of the opportunity to encourage and participate in sound earth-science education.

A few other items. The Call for Papers is out and plans are moving along for the next Pacific Section annual meeting, which is scheduled for May 8-12 in Bakersfield (see page 11). I encourage everyone to make plans to attend; and if you have a last-minute idea for a presentation, contact technical session co-chairs **Don Miller** (ddmiller@aeraenergy.com) or **Mike Richey** (michaelrichey@chevrontexaco.com). Finally, as you may have

*Continued on page 2*

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already noticed in the nameplate of this issue, Pacific Section AAPG now has a logo! The adopted logo and a design that was a close second are displayed in this issue (see page 3). As you can probably tell, it was a tough decision. Thanks to **Tom Hopps** for carrying the ball on this project, and special thanks to **Galina Richardson** for the artwork.

Well, 2003 will be over by the time many of you read this issue. I hope it was a good year, and I'd like to close by wishing everyone and a happy and prosperous 2004.

—Allen Waggoner, President, Pacific Section AAPG





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## JOHN WOOLLEY MEMORIAL GOLF TOURNAMENT

On Friday, October 10, 2003, the Coast Geological Society hosted the 5th Annual John Woolley Memorial Golf Tournament at Elkins Ranch Golf Course in Fillmore, California. The annual tournament and BBQ are sponsored by CGS and Venoco, Inc. (Carpenteria, California) to raise funds for student scholarships and teacher awards. This year's event raised more than \$6400.

With 80 golfers, this was the best-attended tournament since CGS took over hosting duties from Venoco. The event included hole sponsorships and donations from area companies and from friends and family of the Woolleys. Golfing awards and a successful raffle of about 40 prizes and gifts followed a delicious tri-tip and chicken BBQ, which was attended by about 100 people.

The annual tournament has become the primary fund raiser for CGS. Its success has significantly increased the value and number of scholarships awarded by CGS in recent years, and we encourage anyone who would like to participate to contact CGS. For details, see the CGS web site at [www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org).

—Phil Kinney and Tom Hopps



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MP47

## PACIFIC SECTION AAPG MISCELLANEOUS PUBLICATION 47

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BY MELISSA A. LAMB, KAI S. ANDERSON, AND STEPHEN A. GRAHAM

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661-392-2471, [larryknauer@chevrontexaco.com](mailto:larryknauer@chevrontexaco.com)

MP47

## Introducing... the Pacific Section AAPG Logo

Finally!! After 80 years, Pacific Section AAPG has its own logo. We have used the AAPG logo for so long, it was challenging to design a new logo that felt right. But, working with the logo committee, **Galina Richardson** (who also designed the logo for the 2003 convention in Long Beach) did a superb job. The goal was to create a logo that would embody the essence of Pacific Section while retaining the flavor of AAPG. With suggestions from **Larry Knauer**, **Bob Countryman**, and me, Galina created the logo you see here (#1). The shape and theme of the AAPG logo are preserved, with the yellow-orange ring surrounding a blue interior on which the Pacific Section states have replaced the world. (Check out the color version on the Pacific Section AAPG website.) Stars designate the location of our local societies.

Many of our members preferred the alternate logo (#2), as evidenced from their comments:

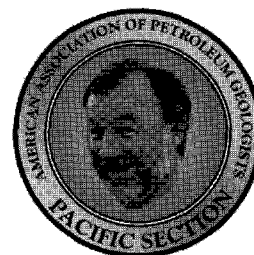
- "Both [logos] capture the essence of Pacific Section and truly reflect what we're all about; the first captures our diverse geography and the second — well, just the diversity."
- "Add a drink and a cigar to #2 and let's go with it."
- "#2; it is delightfully tacky, yet unrefined."
- "#2, but isn't there a new TV show out there called Extreme Makeover?"
- "And one vote for #1: "#2 I believe would cause a drastic decrease in membership." (L. Knauer)

So, being a democratic committee, we disregarded the overwhelming approval of #2 and selected #1, reasoning that it would better serve the long-term interests of Pacific Section. With this action, all of the Sections of AAPG now have their own logo, and Pacific Section will be free from restrictions that AAPG could impose on the use of its logo in the future.

—Tom Hopps



Logo #1 (above) was selected as the official logo of Pacific Section AAPG, winning by a narrow margin over logo #2 (below).



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**Alaska Geological Society**  
www.alaskageology.org

P.O. Box 101288  
Anchorage, AK 99510

Contact: Rocky Reifenstuhl  
Rocky@dnr.state.ak.us



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$17 (members with reservations) or \$20 (members without reservations and nonmembers). The next meetings are scheduled for January 15 and February 19. For reservations, call the AGS reservation voice mail at 907-646-7106 or contact **Edna Beuhler** at edna.beuhler@encana.com by noon on Monday before the meeting.

**Coast Geological Society**  
www.coastgeologicalsociety.org

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Simmons  
805-375-9262



Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Veterans of Foreign Wars Hall at 3801 Market Street 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 \$15 (with reservations), \$18 (without reservations), or \$8 (students and K-12 teachers); the talk is free. The next meetings are scheduled for January 20 and February 17. For reservations, contact **Shaun Simon** at secretary@coastgeologicalsociety.org or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.



CGS hosted the 5th Annual John Woolley Golf Tournament in Fillmore on October 10. The annual event is the primary fund raiser for CGS (see page 2).



CGS's Fall 2003 Field Trip, led by Gene Fritsche, took place in the Western Santa Monica Mountains on October 23 (see page 13). The Spring 2004 Field Trip, tentatively scheduled for April or May, will complement the Fall trip, with plans for Gene and others to highlight Miocene volcanic rocks in the same area.



CGS is seeking nominations of local earth-science teachers for CGS's Teacher of the Year competitions. For more information or to nominate a teacher, contact **Scott Simmons** at the CGS mailing address (above). The deadline for nominations is February 6.

**Los Angeles Basin Geological Society**  
www.labgs.org

5640 South Fairfax Avenue  
Los Angeles, CA 90056

Contact: Dalton Lockman  
323-298-2242



Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande 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 next meetings are scheduled for January 22 and February 26. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at www.labgs.org or by contacting **Ivan Aburto** at iaburto@labgs.org or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.



LABGS celebrated "**Russ Simonson Day**" at its October 23 luncheon meeting, which was devoted to honoring Russ and the 50th anniversary of his presidency of Pacific Section AAPG (see pages 14-15). **Don Clarke** read Russ's biography and accomplishments, Russ briefly spoke and reminisced, and **Dalton Lockman** presented Russ with a Dibblee map dedicated in his honor and a LABGS t-shirt. The celebration concluded with an anniversary cake and cheers.



**Dick Brown** has organized a planning committee for a field trip to the Palos Verdes peninsula. The trip is tentatively planned for 2004. If you are interested in helping, contact Dick at 562-598-0595.



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). The next meetings are scheduled for January 28 and February 25. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



**Sandy Figuers** has generously undertaken the task of assembling a collection of all NCGS field trip guidebooks produced since the society was founded in 1944. Some of these books may be the only source of geological information in an area, so they are of enormous practical value. More than 50 of the approximately 75 books have been collected so far. If you have a book to contribute, contact Sandy at Figuers@aol.com or 925-606-8595.



NCGS is accepting applications from masters or doctoral degree candidates for its 2003-2004 Graduate Scholarship Award of \$1,000. The scholarship is for projects implemented in the 2004 calendar year. The application deadline is January 31, and the award will be made on March 31. To obtain an application, contact **Randy Kirby** at 925-288-2344 or kirby.geosci@usa.net.



Luncheon meetings are held monthly October through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW Salmon Street) in Portland. The meeting starts at 1:00 p.m. The next meetings are tentatively scheduled for January 9 and February 13. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.



Luncheon meetings are held monthly January through November, on the third Wednesday of the month at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The meeting starts at noon. The next meetings are scheduled for January 21 and February 18. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consvr.ca.gov. SPA is seeking speakers for its monthly meetings in Spring 2004. If interested, contact **Rick Blake** at 925-422-9910 or blake2@llnl.gov, or **Pam Ceccarelli** at 916-322-1097 or pceccare@consvr.ca.gov.



SPA's 2003 Fall Field Trip was held on November 1 at the Sixteen-to-One Gold Mine, the longest-operating hard-rock gold mine in California. The thirteen participants toured the mine's museum and hiked into the mine (some to the 1,000-foot level), where they observed excavations, quartz veins, and fault planes and looked for gold (of course!).



Dinner meetings are held monthly October through June, usually on the second Tuesday of the month, at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for January 13 and February 10. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Abby Howell** at 661-654-7303 or abbyhowell@chevrontexaco.com.



SJGS members bid a fond farewell to **Allen Britton** at the November 11 dinner meeting (see page 12), and they honored **Russ Simonson** and the 50th anniversary of his presidency of Pacific Section AAPG (see pages 14-15). **Don Clarke** read Russ's biography and **Larry Knauer** presented Russ with a framed copy of a favorite photo from the 2002 Pacific Section field trip to the North Slope of Alaska.

JANUARY & FEBRUARY 2004

**January 9\*** — NWEA Monthly Luncheon Meeting

*Location:* Multnomah Athletic Club, Portland

*Speaker:* TBA

**January 13** — SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield

*Speaker:* Stephen M. Testa (Consultant)

*Title:* Josiah D. Whitney and William P. Blake: Conflicts in Relation to California Geology and the Fate of the First California Geological Survey

**January 15** — AGS Monthly Luncheon Meeting

*Location:* Anchorage Hilton, Anchorage

*Speaker:* Jim Clough (Alaska Geological Survey)

*Title:* TBA

**January 20** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speaker:* John Izbicki (USGS)

*Title:* Water from Wells or Water from Aquifers

**January 21** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* Hal Bopp (CDOGGR)

*Title:* Random Thoughts from the Division of Oil, Gas, and Geothermal Resources

**January 22** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* Ed Marks (Consultant)

*Title:* Bio-Steering into the Monterey Formation

**January 28** — NCGS Monthly Meeting

*Location:* Masonic Center, Orinda

*Speaker:* Ronald Olowin (Saint Mary's College)

*Topic:* Origin of the solar system

**February 10** — SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield

*Speaker:* Mike Clark (ChevronTexaco)

*Title:* History of Exploration

**February 13\*** — NWEA Monthly Luncheon Meeting

*Location:* Multnomah Athletic Club, Portland

*Speaker:* TBA

**February 17** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speaker:* David Paige (UCLA/JPL)

*Title:* Update on Mars Exploration

**February 18\*** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* TBA

**February 19** — AGS Monthly Luncheon Meeting

*Location:* Anchorage Hilton, Anchorage

*Speaker:* TBA

**February 25\*** — NCGS Monthly Meeting

*Location:* Masonic Center, Orinda

*Speaker:* TBA

**February 26** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* Robert Crippen (NASA)

*Title:* Space Shuttle Radar Topography and its Application — 3D Presentation

UPCOMING EVENTS

- March 9 • SJGS Monthly Dinner Meeting
- March 12\* • NWEA Monthly Luncheon Meeting
- March 16\* • CGS Monthly Dinner Meeting
- March 17\* • SPA Monthly Luncheon Meeting
- March 18 • AGS Monthly Luncheon Meeting
- March 29 • LABGS Monthly Luncheon Meeting
- March 31\* • NCGS Monthly Meeting
- April 9\* • NWEA Monthly Luncheon Meeting
- April 13 • SJGS Monthly Dinner Meeting
- April 20\* • CGS Monthly Dinner Meeting
- April 21\* • SPA Monthly Luncheon Meeting
- April 22 • LABGS Monthly Luncheon Meeting
- April 28\* • NCGS Monthly Meeting
- April • AGS Annual Technical Conference (Anchorage)
- May 8-12 • Pacific Section Convention (Bakersfield)

\* Tentative

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**NEW & REINSTATED MEMBERS** — **Douglas Britton**, Long Beach City College, Huntington Beach, CA • **Walt Hamann**, Rincon Consultants, Inc., Ventura, CA • **James Hollarn**, San Diego State University, San Diego, CA • **Mike Ponek**, ChevronTexaco, Bakersfield, CA • **Justin Stephanian**, Strata-Analysts Group, Inc., Signal Hill, CA • **Jefferson Williams**, SuperSonic Geophysical, LLC, Los Angeles, CA • **Heath Williams**, Thousand Oaks, CA • **Jeffrey Wokurka**, Leighton and Associates, Valencia, CA

**IN MEMORY** — **Phillip Kistler**, La Jolla, CA (August 7, 2003)

**PETER W. WEIGAND 1943-2003**

Dr. Peter W. Weigand, 60, Emeritus Professor of Geological Sciences at California State University Northridge, passed away on September 26, 2003, in Los Angeles, California, from complications during heart surgery. His enthusiasm, optimism, helpfulness, and constant flood of new ideas will be sorely missed by all those who knew him.

Peter earned a B.A. (1965) in biology at Lafayette College and M.S. (1969) and Ph.D. (1970) degrees in geology at University of North Carolina at Chapel Hill. After three years of post-doctoral studies, he began his career teaching in the Geological Sciences Department at CSUN in 1973. His distinguished career lasted for 30 years, during eight of which he served as Department Chair.

Peter's research with undergraduates and masters students focused on improving our understanding of the character and origin of volcanism throughout southern California, but especially in the Santa Monica Mountains. These research contributions were honored with the 1999 George Lefevre, Jr., Research Award from the CSUN Chapter of the Sigma Xi Research Society.

Peter was known for his dedication to students, his commitment to teaching excellence, and his contributions to the education of teachers and the general public. He was honored with the 2003 Distinguished Educator Award of the Pacific Section of the American Association of Petroleum Geologists, the 2002 Distinguished Teaching Award of the CSUN President's Associates, and the 1996 Outstanding Educator Award of the Los Angeles Bayanihan Lions Club.

Among numerous professional contributions, Peter served as General Co-Chair of the very successful 2001 first-ever joint meeting of the Pacific Section AAPG and the Cordilleran Section of the Geological Society of America. He gave numerous talks at local universities and professional societies and led or co-led many geology field trips — not only for CSUN students, but also for local teachers, the Pacific Section AAPG, and the Coast Geological Society. He also served as barbecue chef at the CGS meetings. One of his most important jobs was that of Vice President of the Thomas Wilson Dibblee, Jr., Geological Foundation.

Memorial donations to support student scholarships may be made to either the "CSUN Foundation" [memo line: Geochemistry Fund] or to the "Coast Geological Society Scholarship Fund". Donations in Peter's memory to support publication of Dibblee geologic maps may be made to the "Santa Barbara Museum of Natural History" [memo line: Dibblee Geology Center (Weigand)].

—Gene Fritsche



*Editor's note: The sign in this photograph reads BASALT PILLOW (FIG. 30) SUBMARINE BASALT FLOW MIDDLE MIOCENE CONEJO VOLCANICS. Many thanks to Peter's wife, Sandra Jewett, for sharing the photo.*

## RICHARD LEE HESTER 1923-2002

"Hester here," was the telephone call sign of Richard Lee Hester for half a century. Dick passed away January 7, 2002, in Cathedral City, California, following a debilitating illness. He was born February 15, 1923, in Los Angeles. He graduated from Glendale High School in 1941, just in time for World War II. He was a radio operator with the Army Air Force from 1942 to 1946 in the Southwest Pacific, Australia, New Guinea, the Philippines, and Japan.

Dick graduated from UCLA in 1949 and joined Signal Oil and Gas in Bakersfield. In 1956, he was transferred to Guatemala, where he managed field mapping in the Peten jungle. In 1957, he was transferred to Denver as District Geologist for Signal's Rocky Mountain Division. He joined Pauley Petroleum in 1959, where he worked in the Santa Barbara Channel, Los Angeles basin, Rocky Mountains, and Texas Gulf Coast. Pauley won three State offshore tracts, all of which had discoveries. He also participated in international exploration in Mexico and the Persian-Arabian Gulf region.

In 1969, he moved to Marine Resource Consultants of Santa Monica, where he oversaw geologic research and field operations for ocean-floor and sub-bottom geology and geophysics and mineral exploration in Brazil, the Philippines,

Iceland, and Greenland. Although satisfying, the work required too much foreign time, so he resigned to practice as a consultant, which he did from 1970 to 1990. Dick retired to Cathedral City in 1991, although he continued some consulting.

He was a member and active participant in numerous professional societies: GSA, AAPG (including Pacific and Rocky Sections and sub-sections), and AIPG. He served the Pacific Section as Treasurer, Vice President, and President. He was also a California Registered Geologist. His publications include articles on Persian-Arabian Gulf geology, his Sierra adventures, and Guatemalan anthropology.

Dick Hester is survived by his wife, Mary, and their three children, Beverlee, Janet, and Gary, and five grandchildren, Chad, Matt, Erica, Leanna, and Hallie. His lifelong commitment as an enthusiastic outdoorsman and geologist set a remarkable example for his fellow professionals. In the sense of his appreciation of Latin culture, *basta la vista, Ricardo*.

—Tony Morris



## LYTTON FRANCIS IVANHOE, JR. 1920-2003

Lytton Francis Ivanhoe, Jr. — better known as "Buzz" or "Bus" Ivanhoe — died on September 27, 2003. He was quite a character in the petroleum exploration business.

Bus was born in Klamath Falls, Oregon, in 1920, but lived most of his childhood in Brazil. He returned to the U.S. to attend South Dakota School of Mines, graduating with a B.S. degree in Mining Engineering in 1942.

During the 1940s, Bus worked on a Carter Oil Co. seismic crew in Kansas, went to Ecuador in 1942-44 as a Mining Engineer, and to Venezuela as party chief on a seismic crew. In 1948-49, he studied at Stanford, where he received an M.S. degree in Geology. During the early 1950s in Bakersfield, he was a geologist/geophysicist for SOCAL (Chevron) and then for Franco Western in 1954-57. Later, he worked as a consultant to the Israel Oil Company, advised the South African government on exploration, and was an advisor to the Turkish Petroleum Company. In 1969, he joined Occidental Petroleum, first as a consultant in Libya and later as an employee in Bakersfield. During the next 11 years, he did worldwide studies for Oxy and made significant contributions to Oxy's international exploration successes.

Over the years, Bus authored more than 100 technical

papers on a wide variety of subjects. One of the more unique publications was the *World Prehistory Culture Chart*. His favorite philanthropy was the "Ivanhoe Fellowships," which focused on fellowships for specific students at the South Dakota School of Mines, Colorado School of Mines, and University of Arizona.

In his own words: "I was 'different' due to my unique background. My character was formed as an orphan and by the Great Depression. Instead of learning the normal American adolescent's social skills, I was studying Portuguese and German in Rio de Janeiro. Life was a very serious matter to me. I was hard working, self sufficient, intellectually honest, frugal, curious, skeptical, agnostic. I was a 'doer', a problem solver and idea man. However, I was also an outspoken 'loner' with views that often ran counter to conventional opinions. I was never a good 'company man'. However, I had a very strong sense of loyalty to those persons/institutions that I esteemed. A maverick individual, tact was not my strong point, so I worked alone as a consultant for much of my career."

—John Carver







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## DONALD PADICK 1932-2003

Our friend and colleague, Don Padick, really loved people and was about as much fun as you could have in one place. Don passed away from failing health on September 30, 2003.

Don was born in 1932 in Meridan, Connecticut, the youngest of six children. After the family's move to California in 1946, Don attended Chatsworth High School, where he played varsity basketball and baseball and developed his love for golf. Drafted in 1952, his Army days were legendary. His gregarious nature caused him to be made a cook so that he could spend the rest of his enlistment organizing parties, golf games, and other events for the Officer's Club — a job at which he excelled.

With his brothers Clem and Jim, Don attended UCLA, receiving a degree in Geophysics in 1959. In the fall of that year, he and Jill Riggen were married and began raising a family of two sons, Jeff and Brad, and a daughter, Roxanne.

With his brother Jim as a partner, he helped found PacOwl, Inc., a leading and trend-setting mud logging company. He later formed Don Padick Well Logging, one of the leading mud logging companies in southern California. During this time, he became involved with Pacific Section AAPG, organizing and running the annual golf tournament for many years. He was also active in the

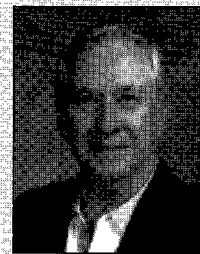
Wildcats and proud of his participation, which helped raise funds for Pyles Boys' Camp in California's Sierra Nevada Mountains.

Don was a superb golfer and passionate about the game, but enjoyed all sports. He was a skier and fisherman and loved watching football, especially if the UCLA Bruins were playing. His and Jill's annual New Year's Day Bowl Games parties were riotous afternoons of fun, food, and beverage not to be missed or forgotten.

Perhaps the best characterization of Don Padick occurred on one of his many trips to Dodger Stadium. He told his long-time friend Joe, "Before I die, I'm going to run these bases." After the game, he somehow managed to avoid security, convince two Dodgers to let him hit and run the bases, and then persuade the security guards not to take him to jail.

Not surprisingly, at his 70th birthday party, family and friends alike spoke to what a loyal friend Don had always been and how much fun everyone had when Don was around. Don's favorite line was "I am only here to make you laugh." You did, Don, and thanks for the memories. You will be deeply missed and definitely not forgotten.

—Tom Hopps



*Joseph F. Elliott*

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**LET'S MEET IN BAKERSFIELD**  
**at the**  
**Pacific Section AAPG/SEPM/SEG**  
**2004 Annual Meeting**

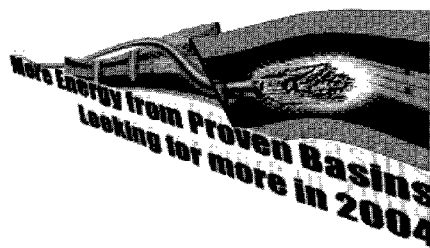
**Pacific Section AAPG/SEPM/SEG Convention**  
**May 8-12, 2004 at the Holiday Inn Select Bakersfield, CA.**

**Technical Sessions include:**

- San Joaquin Basin Petroleum Assessment Symposium**
- Geology of Thermal Projects**
- Importance of Reservoir Characterization in Mature Fields**
- Shale Secrets - Projects in the Monterey Shale**
- Compressional Tectonics of West Coast Oil Fields**
- Great Valley Deep Gas Plays - the Next Frontier?**
- Development of Turbidite Reservoirs**
- Paleogeography of the San Joaquin Basin**
- Techniques in Reservoir Modeling**
- West Coast Environmental Geology**
- Advances in Geophysics (SEG)**
- Advances in Oilfield Paleontology**

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***www.psaapg.org***

## Farewell to Allen Britton . . .

(photos courtesy of Larry Knauer)

After 20 years in the Bakersfield oil patch, and as the manager of the Bakersfield Core Laboratories office for the last several years, **Allen Britton** and his wife are moving to Houston with Core Laboratories. Allen has been a tremendous asset to the Pacific Section AAPG as an officer, a convention committee member, and someone who we all knew would get the job done. We will miss Allen's leadership and wish him and his wife all the best in Houston. Farewell Allen!



**Allen** was radiant at the November 11 SJGS meeting in Bakersfield. **Frank Cressy** was among many friends wishing him a fond farewell.

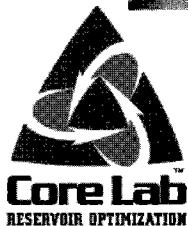
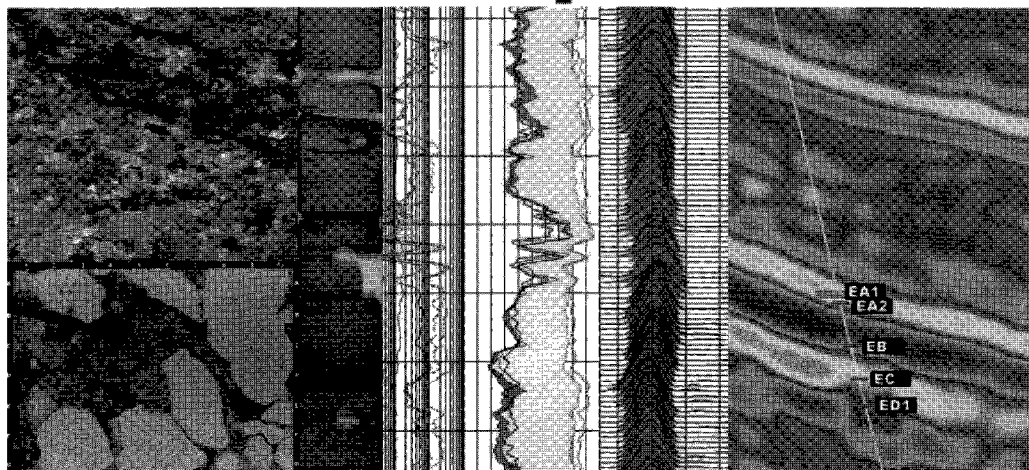


**Allen** and his wife, **Carmen**, received lovely parting gifts from their Pacific Section friends.



**Allen** was reluctant to leave a going-away party hosted by Kay and Brian Pitts at their Bakersfield home, so he was finally escorted out by his Pacific Section friends. Left to right: **Terry Thompson, Kay Pitts, Mark Wilson, Bob Countryman, Larry Knauer, Allen Waggoner, Tom Hopps, and Jon Schwalbach.**

# Reservoir Optimization



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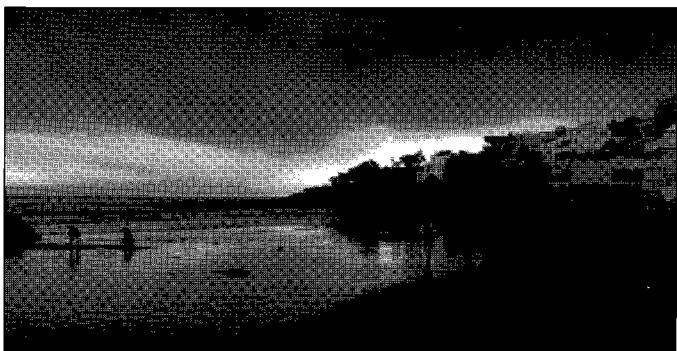
## Coast Geological Society Fall Field Trip . . .

(photos courtesy of Scott Simmons)

On October 25, CSUN Professor Emeritus **A. Eugene Fritsche** led 35 participants on CGS's 2003 Fall Field Trip to study the tectonic history of the Santa Monica Mountains. The group observed Tertiary and Quaternary rocks, faults, and unconformities along winding mountain roads and sandy beaches, and was enlightened about the complex geologic history of the area. The trip was dedicated to the memory of **Peter Weigand** (see page 7). Thanks to **Scott Simmons, Phil Kinney, Steve Grayson, Scott Moors, and Shaun Simon** for coordinating logistics!



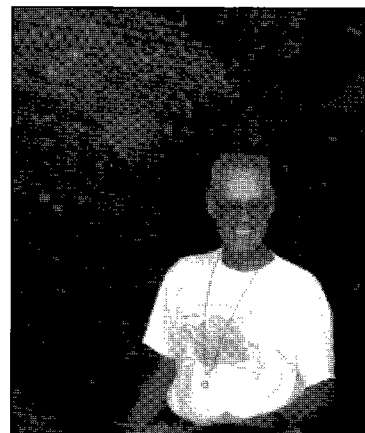
Fossil hunting in the Miocene Topanga Canyon Formation along Latigo Canyon Road. The sky darkened throughout the day as smoke and ash from a wild fire in Piru drifted south.



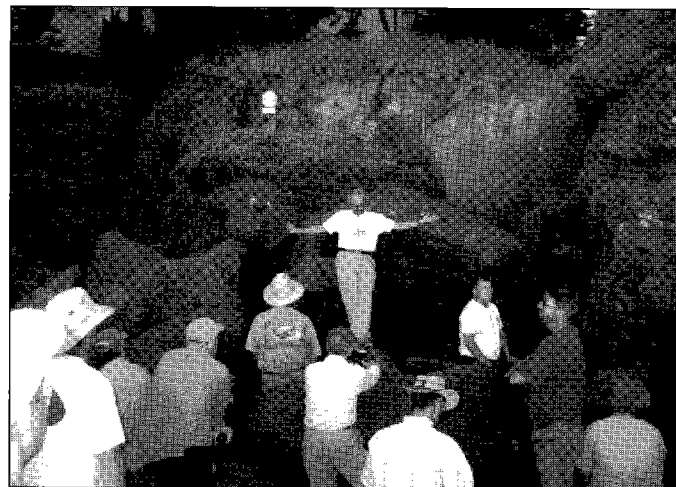
The trip ended on Broad Beach with a spectacular smoke-enhanced sunset.



Ripple marks in sandstone of the Eocene Llajas Formation on Rambla Pacifico Road.



Field trip leader **Gene Fritsche** was characteristically energetic and well organized, providing insights about the complex stratigraphy and structure, and discussing dissimilarities between geologic mapping by Yerkes and Campbell and by Dibblee and Ehrenspeck.



An enthusiastic leader and a captivated audience in Miocene San Onofre Breccia on the beach at Lechuza Point.

## CGS Dinner Meeting on November 18, 2003 . . .

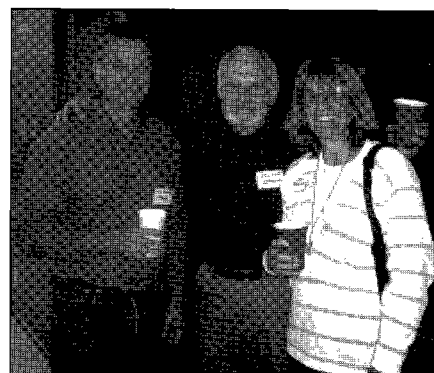
(photos courtesy of Larry Knauer)



**Roy Burlingame** (consultant), **Dan Fargo** (Omni Laboratories, Inc.), and Dan's beer. Omni sponsored the refreshments.



**Jan Dependahl**, a past president of CGS.



**Butch Brown** (center) with **Mike** and **Joan Barminski**.

**Russell R. "Russ" Simonson**... we all know him. He's always at the Pacific Section annual meetings. Some of us walked with him on the North Slope of Alaska in 2002. He was at meetings of the San Joaquin, Los Angeles Basin, and Coast Geological Societies last year. He's the congenial, tall, older guy with the big smile. He has lots to talk about — history, geology, and prospects. Some might think that he's retired, but he'll never retire. What many don't know is that Russ is 91 years old and has served the Pacific Section for more than 50 years!

Russ was born in Alberta, Canada, in 1912. His family moved in 1915 to Montana and in 1920 to California, his home base ever since. Russ attended school in Owensmouth (now Canoga Park), and his photograph is displayed in the Los Angeles Unified School District Headquarters as a distinguished graduate of Canoga Park High School. He received a B.A. degree in Geology from UCLA in 1934 (Phi Beta Kappa), an M.A. degree in Geology in 1936, and a secondary teaching credential in 1936.

His first job was teaching geology at Chaffee College. In 1937, he got a job with Union Oil in Bakersfield, where he worked in the paleo lab until a field job opened. From 1939 to 1942, Russ mapped the Temblor Range in detail, and he also mapped east of Sacramento. In 1943, he left Union for North American Consolidated Oil Company in Taft. Shortly thereafter, he went to Ohio Oil Company (Marathon) in Bakersfield, serving as Geologist and Stratigrapher (1943-50), District Geologist (1950-55), Division Geologist and Exploration Manager (1956-65), and Geologic Advisor for Marathon's Denver Research Center (1961-64). In 1965, he resigned from Marathon to consult. He has been an independent operator since 1976.

Over the course of his long and varied career, Russ has worked several oil and gas fields in California (South Mountain, West Montalvo, Belgian Anticline, Beehive Bend) and Alaska (Kenai, Sterling, Beaver Lakes, West Fork, North Fork, McArthur River, Trading Bay, and Swanson River). He consulted for the Navy and Tetra Tech on the North Slope and evaluated foreign concessions and farm-outs, sold prospects, and negotiated acreage with many companies (including Arco, Standard, Marathon, Sunray, Argo, Champlin, and Oxy). He has numerous publications and is an AIPG Certified Geologist, a GSA Fellow, and a Registered Geologist and Professional Engineer in California.

History buffs might be surprised to learn that Russ was President of Pacific Section AAPG in 1953-54, more than 50 ago! He served long before Past Presidents Mason Hill (1956-57), Ulysses Simpson Grant (1958-59), John Kilkenny (1963-64), Ted Bear (1967-68), Doug Traxler (1969-70), Dick Hester (1971-72), Art Spaulding (1972-73), Wes Bruer (1975-76), Bud Reid (1976-77), Tom Wright (1980-81), and Lucy Birdsall (1985-86). Some things have changed since Russ's presidency, when his fellow officers were Rufus Smith (Vice President), Robert Maynard (Secretary), Tom Folsom (Treasurer), Homer Steiny, (Past President), and Art Huey (San Joaquin Representative). For example, in 1953:

- Pacific Section had a spring picnic at the Standard Oil Company campground in Pico Canyon, and field trips were made to the northern Santa Ana Mountains and the Ventura Avenue oil field.
- Harold "Sully" Sullwold drew some "Andy Cline" cartoons for the *Pacific Petroleum Geologist Newsletter*.
- Bakersfield was still suffering from the damage caused by the 1952 earthquake.
- Dick Faggioli and Earl Bescher prepared the new Pacific Section Membership Directory.
- The 30th annual meeting of Pacific Section was held in Los Angeles on November 5-6. Hot topics were Sheep Springs (Cymric), Oakridge, Alferitz Anticline, Wild Goose gas field, and South Cuyama. Other papers addressed the geology and prospects of western Washington, Eel River basin, Santa Barbara embayment, Sacramento Valley, and southern San Joaquin Valley. Hot technology topics focused on well logging and geophysics. (It's interesting that many of these topics could have been taken right out of the 2003 meeting program).

Over the last 50 years, we have seen great change, but we have also seen great continuity. Russ embodies that continuity. I take inspiration from individuals such as Russ and Tom Dibblee, whose long, productive lives have been bolstered by their youthful spirit and a love of geology.

When you next see Russ at a meeting, be sure to thank him for his long service to Pacific Section. And don't miss the chance to engage him in conversation about the "old days." If you can pull him aside, he might even tell you about his latest play and convince you to back him in drilling his latest wildcat ...

—Don Clarke

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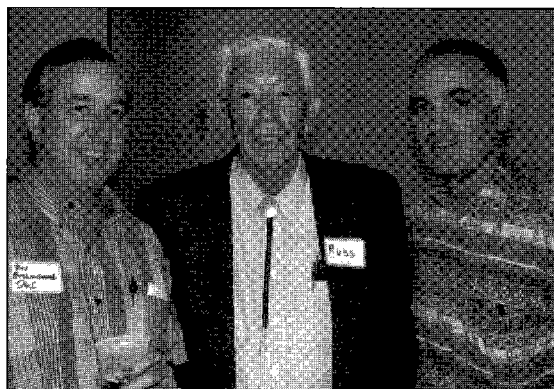
## **Societies Honor Simonson . . .**

*(photos courtesy of Don Clarke and Larry Knauer)*

The Los Angeles Basin Geological Society and San Joaquin Geological Society recently honored **Russ Simonson** for his long service to Pacific Section AAPG and acknowledged the 50th anniversary of his presidency. Russ was honored by **Dalton Lockman** at the LABGS meeting in Long Beach on October 23 and by **Larry Knauer** at the SJGS meeting in Bakersfield on November 11; **Don Clarke** read a brief biography of Russ at both meetings. Several people at the meetings signed a Dibblee geologic map that will be dedicated to Russ and eventually framed and presented to him.



**Russ Simonson** with friends and Past Presidents of Pacific Section AAPG at the October 23 LABGS meeting. Left to right: **Dalton Lockman** (1997-98 President), **Russ** (1953-54 President), **John Minch**, and **John Randall** (1991-92 President).



**Roy Burlingame** (left) and **Allen Waggoner** (right) with **Russ** at the November 11 SJGS meeting.



A group of happy Pacific Section AAPG Presidents gathered to help honor **Russ Simonson** and posed for a group photo at the November 11, 2003, SJGS meeting in Bakersfield. Front row (left to right): **Wes Bruer** (1975-76 President), **Terry Thompson** (1999-2000), and **Larry Knauer** (1996-97 President). Back row (left to right): **Jack West** (1988-89 President), **Stan Eschner** (1979-80 President), **Dan Pasquini** (1987-88 President), **Russ Simonson** (1953-54 President), **Tom Hopps** (2002-03 President), **Allen Britton** (2001-02 President), **Allen Waggoner** (2003-04 President), and **Mark Wilson** (1995-96 President).

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Membership dues (including subscription) are \$12 per year. Membership inquiries and change of address should be directed to the Membership Chair.

Articles, news about members and events, and other items of interest to our members are encouraged and should be sent to the Editor. Geological articles should be sent to the Geological Coordinator.

Memorial notices, articles, and photographs should be sent to the Editor. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to our members are encouraged to share their views and ideas by sending letters to the Editor. All letters will be shared with the Executive Committee, and those with relevant and timely content will be published in the newsletter; letters may be condensed to accommodate newsletter space constraints.

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the March & April 2004 issue is February 7, 2003.**

The newsletter is accessible at www.psaapg.org. Member access is by password, and nonmember access to an excerpt is unrestricted.

*January & February 2004 password: contours  
March & April 2004 password: crossover*

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Frank Cooper	Tom Hopps	Terry Thompson
Bob Countryman	Phil Kinney	Allen Waggoner
Dan Day	Larry Knauer	Mark Wilson
	Dalton Lockman	

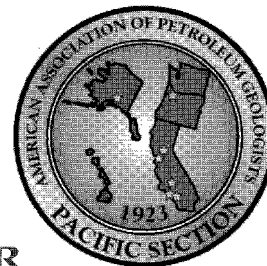
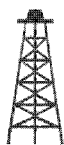


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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

March & April • 2004

..... Message from the President: *Membership* .....

On February 6–8, 2004, I had the opportunity to attend AAPG's annual leadership conference in Tulsa, Oklahoma. The conference is an excellent chance to meet with the AAPG leadership and staff, as well as to interact with leaders of many different sections and local societies from within and outside the United States. In addition, candidates for AAPG offices were present and gave brief presentations on why they want to hold an AAPG office.

Several topics were discussed during the course of the conference. By far, the subject that inspired the most lengthy and impassioned discussion was membership and its future effect on the organization. Historical data indicate that AAPG membership peaked during the mid-1980s and then dropped off, coincident with lower oil prices and subsequent slowdown of the industry. Since the mid-1990s, membership numbers have remained rather flat, with slight declines in domestic membership being offset by increases in international membership. These statistics raise many questions concerning the future of AAPG in light of the trends in the petroleum industry, such as corporate consolidations and emphasis on international development.


Membership is also an ongoing concern for Pacific Section. Active membership numbers indicate that we are the smallest section. There are several rather obvious reasons for this. Most of the petroleum producing areas within Pacific Section are mature areas where the emphasis is on development and engineering techniques, which require fewer and fewer earth scientists. In addition, the past twenty or so years have seen mergers, acquisitions, and downsizing—leaving very few large companies that are actively involved in the area.

But good things often come in smaller packages. Although small in numbers, Pacific Section is recognized as having an active and involved membership that has been very effective in producing programs and services that benefit its membership. Pacific Section was well represented at the leadership conference in Tulsa, where our attendees included **Steve Sanford, Bob Lindblom, Kay Pitts, Bob Countryman, Don Clarke, Don Lewis**, and me. Not bad representation for the West Coast gang!

So how does Pacific Section benefit its members? To start with, the *Pacific Petroleum Geologist Newsletter* has evolved into a first-rate publication for disseminating news and information about activities and events within the Section. Our website is also evolving and will become a greater source of information in the future. Additional programs—such as our growing K–12 educational outreach, support for earth science education through our teacher-of-the-year program, support for AAPG distinguished lecturers at the local societies, and local society membership support through dues rebates from Pacific Section—all contribute to support our Section's membership.

Probably the most significant opportunity for professional growth sponsored by Pacific Section is our annual convention. These meetings are recognized nationally for their excellent technical content, as well as great opportunities for networking with other geologic professionals. Pacific Section has been on the cutting edge in organizing joint conventions with other professional groups (such as SPE and GSA), and our joint meetings are considered as models by other sections planning similar

*Continued on page 2*



**2004 PACIFIC SECTION CONVENTION**  
**MAY 9–12 • BAKERSFIELD**  
**Your convention announcement is coming soon!**

*Look for the convention logo throughout this newsletter for more information about the convention.*

*The advance registration form is on pages 14–15 of this newsletter and is available online at [www.psaapg.org](http://www.psaapg.org).*

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meetings elsewhere in the country. The upcoming 2004 Pacific Section Convention, scheduled for May 9–12 in Bakersfield, will be no exception, as there will be a strong technical program and many activities for networking and socializing.

So what is the bottom line? Our profession has changed significantly over the years, and probably the only certainty is that there will continue to be changes in the petroleum business and the role that geoscientists play. Consequently, membership in organizations such as Pacific Section will become even more important—not only for professional growth, but also for building and maintaining that network of relationships that help sustain each of us in our ever-changing profession. If you have been a member of Pacific Section but you just haven't gotten around to renewing your membership, I encourage you to do so. If you know of or work with geoscientists who are not members, I encourage you to get them involved. At \$12 per year, the cost of membership is minimal, but the benefits are substantial.

—Allen Waggoner, *President, Pacific Section AAPG*

One of Sacramento's most distinguished and respected consulting geologists, **Roland Bain**, was honored on January 24 at a dinner and celebration to honor his retirement. Ninety-five people attended the event, which was hosted by Roland's family at the Sierra View Country Club in Roseville.

Roland received his M.A. degree in geology from U.C.L.A. in 1954 and was a geologist with Texaco in Sacramento until 1960, when he opened his consulting office. His geologic expertise in the Sacramento Valley led to the discovery and development of a number of gas fields. In the 1960s, Roland's efforts contributed significantly to the establishment of the California Registration of Geologists Act, which was signed into law in 1969 by Governor Ronald Reagan. Roland's R.G. number is 9! In 1992, Roland was awarded Honorary Life Membership in the Pacific Section AAPG.

—Bob Lindblom

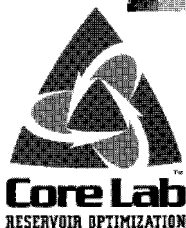
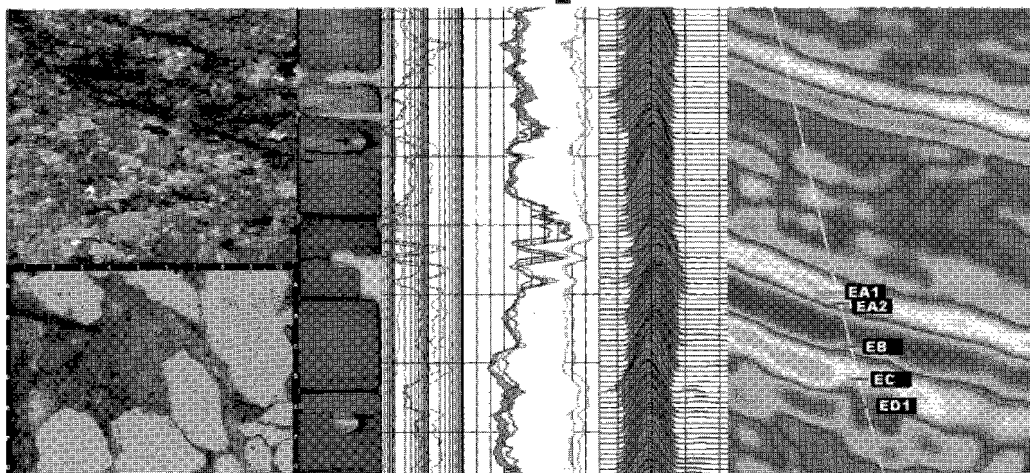


Retiree **Roland Bain** (center) with friends **Bob Lindblom** (left) and **Stan Wooley** at Roland's January 24 retirement party.



**Register early & save \$40!** Members who register by April 5 will save \$35 on convention registration and \$5 on the All-Convention Luncheon.

# Reservoir Optimization



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## 2004 PACIFIC SECTION CONVENTION

PACIFIC SECTION • AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

HOST: SAN JOAQUIN GEOLOGICAL SOCIETY

MAY 9-12, 2004

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### Fellow Pacific Section Members:

The Pacific Section Convention Committee extends an enthusiastic invitation to you and your colleagues to attend our upcoming convention in the **heart of the oilfield — Bakersfield, California**. We've assembled our typically **robust technical program**, and our **short courses** and **field trips** are *extraordinary values* compared to the cost of comparable programs at the national AAPG or SEG conventions. You really shouldn't pass up an opportunity to see the relationship of the **San Andreas and west-side oilfields** for \$130 or go on a guided tour of the **southern Sierra borderland** for \$80.

In addition to all of that, Bakersfield is a great place to visit. The first-class accommodations at the Holiday Inn Select and the Basque restaurants alone can add up to a memorable visit. While in town, consider adding a visit to the **Buena Vista Museum** to your itinerary and see its world class collection of **Sharktooth Hill fossils**. And you'll really be missing out if you don't include the new Black Gold exhibit at the **Kern County Museum** on your list of things to do. It's as real as you can get!

See you there!

### Convention Partners:

Pacific Section SEPM & Pacific Section SEG



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## 2004 PACIFIC SECTION CONVENTION

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### SHORT COURSES

#### SC 1. Controls on Sandstone Reservoir Quality

*Sunday, May 9*

This course will provide an overview of the porosity and permeability of reservoir sandstones from a wide range of depositional and tectonic environments. We will review recently developed approaches for predicting sandstone reservoir quality using diagenetic models. Characterization techniques will consider compaction, cementation, grain size and sorting, and grain coatings, including detrital clay, chlorite, and siderite.

#### SC 2. Understanding Contouring

*Sunday, May 9*

This course will summarize hand contouring and its relationship to computer contouring methods. Both the novice and the seasoned veteran will benefit from this course. The most commonly used computer algorithms will be covered. Topics will include 3D display, variogram calculation, contouring rules, factors that control results, interpretive contouring, fault modeling methods, computer-mapping problems and how to resolve them, contouring and gridding pitfalls, and techniques for checking the results. A brief summary of the strengths and limitations of inexpensive software programs used during the course will be presented. Learn how to make your computer contour map look like a hand-drawn map.

#### SC 3. Shaly-Sand Log Analysis

*Thursday, May 13 & Friday, May 14*

This course will present practical techniques for deriving reservoir properties, with emphasis on particular problems of analyzing California sands. Topics included will be: Calculation of clay volume and porosity, determination of saturation parameters (such as  $a$ ,  $m$ , and  $n$ ), and saturation calculations.

#### SC 4. PC-based Seismic Manipulation & Interpretation

*Saturday, May 8 & Sunday, May 9*

This is an introductory seismic course using GeoGraphix Discovery software. The class will cover project building, loading well data and 2D/3D, and seismic interpretation and techniques.

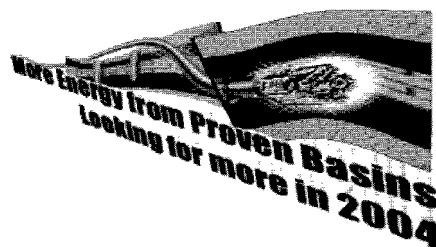
*For more information, contact:*

SHORT COURSE CO-CHAIRS:

ROB NEGRINI: [rnegrini@csubak.edu](mailto:rnegrini@csubak.edu)

JAN GILLESPIE: [jgillespie@csub.edu](mailto:jgillespie@csub.edu)

The advance registration form is on pages 14–15 of this newsletter and is available online at [www.psaapg.org](http://www.psaapg.org).



**Alaska Geological Society**  
www.alaskageology.org

P.O. Box 101288  
Anchorage, AK 99510

Contact: Rocky Reifenhuth  
Rocky@dnr.state.ak.us



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$17 (members with reservations) or \$20 (members without reservations and nonmembers). The next meetings are scheduled for March 18 and April 15. For reservations, call the AGS reservation voice mail at 907-646-7106 or contact **Edna Beuhler** at edna.beuhler@encana.com by noon on Monday before the meeting.

**Coast Geological Society**  
www.coastgeologicalsociety.org

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Simmons  
805-375-9262



Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Veterans of Foreign Wars Hall at 3801 Market Street 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 \$15 (with reservations), \$18 (without reservations), or \$8 (students and K-12 teachers); the talk is free. The next meetings are scheduled for March 16 and April 20. For reservations, contact **Shaun Simon** at secretary@coastgeologicalsociety.org or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.



CGS member **Gene Fritsche**, his wife Sue, and colleagues will launch a week-long, fund-raising walk across the entire length of the Santa Monica Mountains (~75 miles) on March 13. All proceeds from the event, "L.A. Zoo to Point Mugu: A 7-Day Philanthropic Geotrek," will benefit the CGS Scholarship Fund. To make a contribution or learn more, see www.coastgeologicalsociety.org/Images/cgsgeotrekindex.htm.

**Los Angeles Basin Geological Society**  
www.labgs.org

5640 South Fairfax Avenue  
Los Angeles, CA 90056

Contact: Dalton Lockman  
323-298-2242



Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande 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 next meetings are scheduled for March 25 and April 22. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at www.labgs.org or by contacting **Ivan Aburto** at iaburto@breitburn.com or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.



LABGS is selling t-shirts with the LABGS logo to generate funds to help support its scholarship and field trips. The shirts can be purchased only at LABGS monthly meetings, and the cost is \$15.



The 2004 LABGS annual field trip will visit the Palos Verdes peninsula and is scheduled for June 26. **Dick Brown** has organized a planning committee for a trip, and a comprehensive guidebook that will include new material is being assembled. To contribute to the guidebook or help with trip logistics, contact Dick at 562-598-0595.

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### Northern California Geological Society

www.ncgeolsoc.org

9 Bramblewood Court  
Danville, CA 94506-1130

Contact: Mark Detterman  
mdetterman@blymyer.com



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). The next meetings are scheduled for March 31 and April 28. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



NCGS is sponsoring an AAPG Distinguished Lecture on April 5. **Richard Behl** present "Miocene Monterey Formation of California: Plankton to Petroleum Source to Reservoir" at 1:00 in the ChevronTexaco office building (Conference Room D2193) in San Ramon. Individuals who are not ChevronTexaco employees must RSVP by e-mail to bobkieckhefer@chevrontexaco.com by noon on April 2 to arrange for a visitor pass.



**Ryan Alward**, a senior at California State University, Chico, received the NCGS Undergraduate Scholarship Award at the January 28 NCGS meeting. He was selected on the basis of his senior thesis project, "Facies Analysis of the Tuscan Formation, Northern Sacramento Valley, California."

### Northwest Energy Association

www.nwenergyassociation.org

P.O. Box 6679  
Portland, OR 97228-6679

Contact: Ron Gullberg  
503-603-6698



Luncheon meetings are held monthly October through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The meeting starts at 1:00 p.m. The next meetings are scheduled for March 12 and April 9. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.

### Sacramento Petroleum Association

P.O. Box 571  
Sacramento, CA 95812-0571

Contact: Rick Blake  
925-422-9910



Luncheon meetings are held monthly January through November, on the third Wednesday of the month at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The meeting starts at noon. The next meetings are scheduled for March 17 and April 21. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consvr.ca.gov. SPA is seeking speakers for its monthly meetings in Spring 2004. If interested, contact **Rick Blake** at 925-422-9910 or blake2@llnl.gov, or **Pam Ceccarelli** at 916-322-1097 or pceccare@consvr.ca.gov.



**Roland Bain** gave his annual presentation, "Activity and Highlights in the Sacramento Valley for 2003," at the February 2004 SPA meeting. If you would like a copy of the information he presented, contact **Pam Ceccarelli** at pceccare@consvr.ca.gov or 916-322-1097.

### San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056  
Bakersfield, CA 93302

Contact: Cynthia Huggins  
661-763-6303



Dinner meetings are held monthly October through June, usually on the second Tuesday of the month, at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for March 9 and April 13. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Abby Howell** at 661-654-7303 or abbyhowell@chevrontexaco.com.



#### Don't miss the All-Convention Luncheon!

Keynote speaker Stephen A. Sonnenberg will speak on the state of the industry and his year as President of AAPG.

**Exhibit space still available!** For information about the cost and availability of exhibit booth space, contact Roy Burlingame at 661-204-3016 or rburlingame@bak.rr.com.

## Schedule of Events

### March 2004

**March 9** — SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield

*Speaker:* Roy Burlingame (Burlingame Consulting)

*Title:* TBA

**March 12\*** — NWEA Monthly Luncheon Meeting

*Location:* Multnomah Athletic Club, Portland

*Speaker:* TBA

**March 16** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speaker:* David Ossentjuk

*Title:* Oil Field Conversion

**March 17** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* Bob Lindblom (Consultant)

*Title:* Sacramento Valley, California—Massaging Exploratory and Development Concepts in a Mature Dry Gas Basin

**March 18** — AGS Monthly Luncheon Meeting

*Location:* Anchorage Hilton, Anchorage

*Speaker:* TBA

**March 25** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* Mike Mulhern (City of Los Angeles)

*Title:* Avoiding Geologic Hazards in Los Angeles' Largest Tunneling Project

**March 31** — NCGS Monthly Meeting

*Location:* Masonic Center, Orinda

*Speaker:* Judd Case (Saint Mary's College)

*Topic:* Expedition to Antarctica (In Search of Cretaceous Fossils)—December 2003

### April 2004

**April 5** — NCGS-sponsored AAPG Distinguished Lecture

*Location:* ChevronTexaco Bldg., San Ramon

*Speaker:* Richard Behl (AAPG Distinguished Lecturer)

*Title:* Miocene Monterey Formation of California: Plankton to Petroleum Source to Reservoir

For details, see page 7.

**April 9\*** — NWEA Monthly Luncheon Meeting

*Location:* Multnomah Athletic Club, Portland

*Speaker:* TBA

**April 13** — SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield

*Speaker:* Dalton Lockman (Plains Exploration and Production Co.)

*Title:* Getting the Most Out of the Inglewood Oil Field

**April 15\*** — AGS Monthly Luncheon Meeting

*Location:* Anchorage Hilton, Anchorage

*Speaker:* TBA

**April 18-21** — AAPG Annual Meeting

*Location:* Dallas, TX

*Theme:* Embrace the Future, Celebrate the Past

For details, see [www.aapg.org/meetings/dallas04/index.html](http://www.aapg.org/meetings/dallas04/index.html).

**April 20\*** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speaker:* TBA

**April 21** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* Ernie Burroughs (Geolog)

*Title:* New Concepts in Mud Logging

**April 22** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* TBA

**April 28** — NCGS Monthly Meeting

*Location:* Masonic Center, Orinda

*Speaker:* John Stockwell

*Title:* The Formation of Thundereggs

### Upcoming Events

May 9-12 • Pacific Section Convention (Bakersfield)

May 14\* • NWEA Monthly Luncheon Meeting

May 18\* • CGS Monthly Dinner Meeting

May 19\* • SPA Monthly Luncheon Meeting

May 20\* • AGS Monthly Luncheon Meeting

May 26\* • NCGS Monthly Meeting

May 27 • LABGS Monthly Luncheon

June 8 • SJGS Monthly Dinner Meeting

June 15\* • CGS Monthly Dinner Meeting

June 16\* • SPA Monthly Luncheon Meeting

June 24 • LABGS Monthly Luncheon Meeting

June 26 • LABGS Annual Field Trip (Palos Verdes Peninsula)

\* Tentative

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Pgr: 661-321-7156

E-Mail: [mark.pahler@inteq.com](mailto:mark.pahler@inteq.com)



**NEW & REINSTATED MEMBERS** — **Fernando Cardenosa**, ChevronTexaco, Bakersfield, CA (SJGS) • **Rob Fairman**, Aera Energy LLC, Bakersfield, CA (SJGS) • **Glenn Gregory**, Gregory Geological Services, Bakersfield, CA (SJGS) • **Bradley J. Jeffreys**, Self-employed, San Diego, CA (LABGS) • **Steve M. Kalina**, Huntington Beach, CA (LABGS) • **Clay Neff**, ChevronTexaco, Bakersfield, CA (SJGS) • **Wayne W. Tolmachoff**, Bakersfield, CA (SJGS)

**TRANSITIONS** — Consulting geologist **Roland Bain** has retired (see page 2).

**IN MEMORY** — **Pat Herrera**, Calabasas, CA (January 23, 2004)

### JOSEPH ARCH JOHNSON 1923-2003

Joseph A. Johnson died at his Bakersfield home on October 4, 2003, after a long and courageous battle with cancer. Joe was born in Lewiston, Idaho, and grew up in and around Ellensburg, Washington. After serving with the U.S. Navy on P.T. boats during W.W. II, he received his B.S. degree in geology from the University of Washington.

He went to work for Shell Oil in 1950 as a geologist. Early in his career, he met, courted, and married Catherine "Kitty" Campion, which he claimed as the best thing he ever did. Kitty cultivated his love, generosity, and tolerance along with his close family ties and admiration.

His ten years with Shell gave him diversified training and experience with surface and subsurface projects in California, Nevada, and Alaska. In addition, core hole and wildcat well-sitting on onshore and offshore California projects added to his mastery of the many facets of petroleum exploration. Joe attended a number of Shell training schools; as testimony of his studious ways, he was cited as one of the best students in the geophysics class. J.J. (as he was known to his many friends) was a thorough and innovative explorationist. One of his favorite recollections from his Shell field days involved camping out in remote areas of Nevada with his coworker Duane Harris. Following a fine dinner (usually prime steaks), they would relax around the campfire singing with Duane at the guitar. Often they would find that they were not alone when their melodies would attract a circle of curious wild burros around their campfire, apparently trying to figure out what was going on with this howling at the moon.

Joe left Shell in 1960 and embarked on a long and very successful career as an independent geological consultant, encompassing both the petroleum and mining fields. Shortly thereafter, he sold a prospect to Occidental Petroleum that led to the discovery and a royalty participation in a portion of the 141 B.C.F. Dutch Slough gas field in the Sacramento Basin. Later, he switched to the mining field, and for the rest of his life, he was involved in exploration for mercury, gypsum, gold, barite, and silver with ventures in California, Arizona, Nevada, Idaho, Alaska, and Mexico. The most profitable of these was his large gypsum mine near Blythe, California. As an adjunct to his exploration efforts, Joe accumulated considerable heavy-duty mining equipment that, as a hands-on miner, he used to evaluate and even mine some of his prospects.

J.J. was not only an avid explorer, but he had interests and friends in and out of the profession. His diverse interests are reflected by his active membership in the East Niles Community Water District, San Joaquin Geological Society, American Association of Petroleum Geologists, Bakersfield Country Club, Elks Club, Kern County Sheriffs Aero Squadron, Airplane Owners Pilots Association, and his charter membership in both the San Joaquin Sports Divers and the East Side Petroleum Club.

Joe was a compassionate, innovative, and generous human being whom, along with his geologic talents and his interest and knowledge of history and current events, was a joy to be around.

—Nat Mackevett and Henry Walrond

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**Consulting Petroleum Geologist**  
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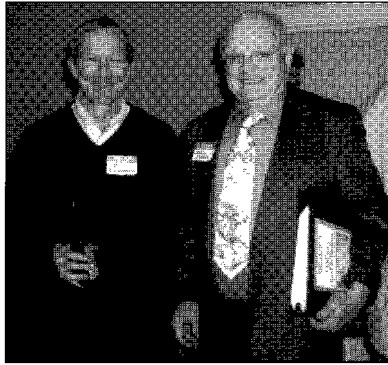
H (323) 664-3358  
dbdelmar@earthlink.net

## Northern California Geological Society Snapshots . . .

(photos courtesy of Larry Knauer)

The Pacific Section AAPG Executive Committee convened its January 28 meeting in San Ramon, California. Following the meeting, Committee members attended the monthly meeting of the Northern California Geological Society in Orinda.


At the NCGS meeting, Pacific Section AAPG Past-President **Tom Hopps** presented long-time NCGS and PS-AAPG member **Bob Lindblom** with the first Pacific Section AAPG President's Award, citing that Bob's meritorious service to Pacific Section AAPG, AAPG, and the petroleum industry uniquely qualified him for the distinguished award. Bob is an ex-officio member of the Petroleum Investments Committee and a consultant to the Stanford Management Company, Department of Petroleum Engineering, Stanford University. He is also a former president of the California State Board of Registration for Geologists and Geophysicists. Congratulations, Bob!



NCGS President **Bob Kieckhefer** (left) and **Mel Erskine**, General Chair of the 2005 Pacific Section Convention in San Jose, California.



**Bob Lindblom** (left) received the President's Award for outstanding service to the Pacific Section AAPG from Past-President **Tom Hopps**.



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## 2004 PACIFIC SECTION CONVENTION

PACIFIC SECTIONS AAPG • SEPM • SEG



### FIELD TRIPS

#### **FT 1. Surface Geological Expressions of Profound Changes in the Southern Sierra Nevada–San Joaquin Valley Mantle Lithosphere Over the Past 85 Million Years** *Saturday, May 8*

This one-day field trip will examine the entire western Sierra range front from the Porterville area southward across the Bakersfield Arch to the Garlock fault in the Tehachapi Range. We will survey a wide range of geologic features, ranging from intrusion and basement tectonics, recent faulting, uplift and subsidence, and residual upper crustal detachment sheets. These detachment sheets are hypothesized to have originated in the high eastern Sierra region and now sit structurally on deep-level western Sierra Nevada Batholith rocks of the Tehachapi Range. We will also see subduction–accretion assemblages that are exposed in small windows adjacent to the Garlock fault. And we will observe Sierra Nevada Batholith rocks seen tapered to a fine edge along the fault.

#### **FT 2. The San Andreas Fault and its Related Giant Structures and Oil Fields in the Western San Joaquin Valley–Cuyama Valley Area** *Thursday, May 13 & Friday, May 14*

This two-day field trip will focus on the tectonic relationship of the San Andreas Fault to offset geologic structures and their association with western San Joaquin Valley oil fields.

Day one will start in the southern portion of the San Joaquin Valley by examining thrust structures, such as the Wheeler Ridge fault-propagation fold, the White Wolf Fault, and the Pleito and Wheeler Ridge thrusts.

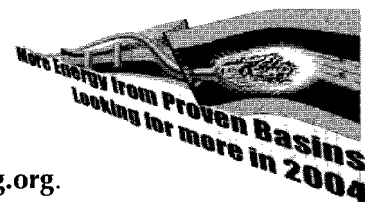
Day two will examine the regional structural geology across the San Andreas Fault between the Buena Vista Hills and the Cuyama Valley, where the western San Joaquin basin and the Cuyama basin will be described in terms of mirror-image thrust systems. We will visit the Temblor Mountains, Carrizo Plain National Monument, and the Midway Sunset field, where we will discuss the significance of these structures to oil accumulation.

*For more information, contact:*

FIELD TRIP CHAIR:

MIKE PONEK: [mponek@chevrontexaco.com](mailto:mponek@chevrontexaco.com)

The advance registration form is on pages 14–15 of this newsletter and is available online at [www.psaapg.org](http://www.psaapg.org).



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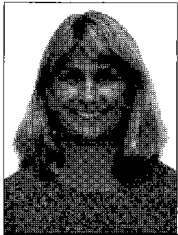
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In this year's Pacific Section AAPG election, three Executive Committee offices (President-Elect, Vice President, and Secretary) are up for election. The Nominating Committee has recruited qualified candidates who have generously agreed to run for office and, if elected, serve our organization. Please take some time to review their biographical information. Ballots will be mailed to members in late April and will be due in late May. Newly elected officers will be announced in the July & August issue of the newsletter and will begin their service in July.



**JOAN  
BARMINSKI**

*Candidate for President-Elect  
2004-2005*

**Present Position**

Chief, Production, Development and Reservoir Analysis Section, Minerals Management Service (MMS), Camarillo, CA

**Education**

B.A. Geology, Smith College, 1975; Graduate study in geology and marine science, University of North Carolina, Chapel Hill, 1975-1977

**Employment**

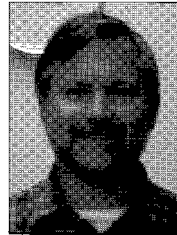
*Oceanographer*, U.S. Geological Survey (USGS), Washington, D.C., 1977-1980; *District Geologist*, Exploration, USGS, Hyannis, MA, 1980-1984; *District Geologist*, Exploration and Development, MMS, Santa Maria, CA, 1984-1991; *Chief*, Production and Development Section, MMS, Camarillo, CA, 1991-1999; *Chief*, Production, Development and Reservoir Analysis Section, MMS, Camarillo, CA, 1999-Present

**Pacific Section AAPG Involvement**

*President*, Coast Geological Society (CGS), 1991-1992; *Treasurer*, CGS, 1992-1993; CGS Delegate to the AAPG House of Delegates, 1993-2002; *Printing Chair*, Pacific Section Convention, 1994; *Treasurer*, Pacific Section AAPG, 1995-1999; *Education Chair*, CGS, 1999-Present

**Professional Affiliations**

AAPG, API (Committee Member), Coast Geological Society, Pacific Section AAPG, Pacific Section SEPM, Registered Geologist (California #6245, Idaho #803), Society of Petroleum Engineers



**JON  
SCHWALBACH**

*Candidate for President-Elect  
2004-2005*

**Present Position**

*Senior Geological Advisor*, Occidental of Elk Hills, Inc., Tupman, CA

**Education**

B.S., Duke University, 1980; M.S., University of Southern California, 1982; Ph.D., University of Southern California, 1992

**Employment**

Exxon USA, Exxon Production Research, Exxon Exploration Company, 1982-2000; Occidental of Elk Hills, Inc., Tupman, CA, 2000-Present

**Pacific Section AAPG Involvement**

*Speaker and Poster Presenter* at numerous AAPG and Society of Sedimentary Geology (SEPM) National and Pacific Section meetings, 1983-2003; *Field Trip Leader*, Pacific Section SEPM, 1992; *Poster Session Chair*, AAPG National Meeting, 1995; *Convention Chair*, Pacific Section Convention, 1998; *Oral Session Chair*, Pacific Section Convention, 1999, 2001, 2003, 2004; *Secretary*, Pacific Section AAPG, 2002-2003; *Vice President*, Pacific Section AAPG, 2003-2004

**Professional Affiliations**

AAPG, Pacific Section AAPG, SEPM



**Annual Business Meetings • Pacific Section AAPG • May 12 • Bakersfield**

The annual meetings of the Pacific Section AAPG and the Pacific Section AAPG Foundation will be held on Wednesday, May 12, in the Belridge Ballroom of the Holiday Inn Select (801 Truxton Ave.) in Bakersfield:

**Pacific Section AAPG meeting:** 5:00 p.m.

**Pacific Section AAPG Foundation meeting:** 4:00 p.m.

**J.M. "BUZZ" DELANO, JR.**  
Consultant

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Office (661) 832-5229  
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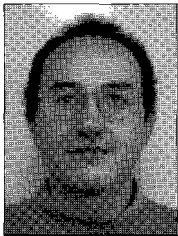
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glenn@bak.rr.com



## HILARIO CAMACHO

*Candidate for Vice President  
2004-2005*

### **Present Position**

*Chief Geoscientist, Signal Hill Petroleum, Inc., Long Beach, CA*

### **Education**

B.S. Geology, University of Granada, Spain, 1992; M.S. Geology, California State University, Long Beach, 2000; Graduate study in geology, University of California, Santa Barbara, Present

### **Employment**

*Field Monitor, RMW Paleoassociates, 1993-1995; Geotech, THUMS Long Beach Company, Long Beach, CA, 1996-1997; Geologist, Signal Hill Petroleum, Inc., Long Beach, CA, 1997-1998; Summer Intern, ARCO Research Center, Plano, TX, 1997; Chief Geoscientist, Signal Hill Petroleum, Inc., Long Beach, CA, 1998-Present; Part-time Lecturer, California State University, Long Beach, 2002*

### **Professional Affiliations**

AAPG, Geological Society of America, SEPM



## MIKE WRACHER

*Candidate for Vice President  
2004-2005*

### **Present Position**

*Senior Geologist, Venoco Inc., Carpinteria, CA*

### **Education**

B.S. Geology, Fort Lewis College, Durango, CO, 1986; M.S. Geology, San Diego State University, 1991.

### **Employment**

*Geologist, Mobil Exploration Producing U.S., Bakersfield, CA, 1991-1997; Geologist, Aera Energy, Bakersfield, CA, 1997-1998; Geologist, Venoco Inc., Carpinteria, CA, 1998-Present*

### **Pacific Section AAPG Involvement**

*Co-author, Pacific Section Convention, 1998, 2000, 2001; Speaker, Pacific Section Convention, 2000, 2001, 2003; Treasurer, Pacific Section AAPG, 2003*

### **Professional Affiliations**

AAPG, Coast Geological Society, Geological Society of America, Pacific Section AAPG



## KAREN BLAKE

*Candidate for Secretary  
2004-2005*

### **Present Position**

*Geological Analyst, Plains Exploration & Production Company, Los Angeles, CA*

### **Education**

A.A. Computer Science & Information; B.S. Geology; Graduate study in geology, California State University, Bakersfield (present)

### **Employment**

Karen's entry into the industry was with Occidental Petroleum as a summer hire. Later, she worked for Berry Petroleum, Paulsson Geophysical Services, and Plains Exploration & Production. She is an occasional instructor at the Geotechnology Training Center at California State University, Bakersfield.

### **Pacific Section AAPG Involvement**

LABGS Delegate to the AAPG House of Delegates

### **Professional Affiliations**

AAPG, Orange County Engineering Council (VP of Corporate Sponsors and Newsletter Editor), Pacific Section AAPG



## ADAM MAHAN

*Candidate for Secretary  
2004-2005*

### **Present Position**

*Project Lead, Aera Energy LLC, Bakersfield, CA*

### **Education**

B.S. Geology, California State University, Bakersfield, 2001; Graduate study in geology, California State University, Bakersfield, 2001-present

### **Employment**

*Geological Technician, ARCO, Bakersfield, CA, 1998-1999; Geological Technician, San Joaquin Facilities Management, Bakersfield, CA, 1999-2000; Geological Technician, EarthQuest Technology Inc., Bakersfield, CA, 2001-2002; Application Analyst, Aera Energy LLC, Bakersfield, CA, 2002-2003; Project Lead, Aera Energy LLC, Bakersfield, CA, 2004-present*

### **Pacific Section AAPG Involvement**

*Poster Presenter, Pacific Section Convention, 2001, 2004; Site Chair, Pacific Section Convention, 2004*

### **Professional Affiliations**

AAPG, Pacific Section AAPG



**Student volunteers & presenters save!** Student volunteers and presenters will receive complimentary registration at the convention! To volunteer, contact Elizabeth Powers at 661-664-3274 or [epowers@csu.edu](mailto:epowers@csu.edu).



**ADVANCE REGISTRATION FORM**  
*More Energy from Proven Basins: Looking for More in 2004*  
**2004 Pacific Section Convention**  
**May 8-14, 2004 Bakersfield, California**



**ADVANCE REGISTRATION DEADLINE: APRIL 5, 2004**

Individuals may register for the convention in advance (at discounted rates +one free drink ticket) or on site. Advance Registration must be completed by April 5, 2004. Mailed forms must be postmarked or faxed to the advance registration site by April 5, 2004, and must be accompanied by full payment (check or credit card). Registration will not be processed without full payment. Requests for refunds of registration, short courses, or field trips must be received in writing or fax by April 5, 2004.

<b>ADDRESS:</b> Cynthia Huggins Oxy Elk Hills P.O. Box 1001 Tupman, CA 93276	<b>FAX:</b> 661-631-1715 <b>E-MAIL:</b> Cynthia_huggins@oxy.com <b>VOICE:</b> 661-763-6303
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**ON-SITE REGISTRATION**  
 Sunday, May 9 ..... 4:00 – 7:00 p.m.  
 Monday, May 10 ..... 7:00 a.m. – 6:00 p.m.  
 Tuesday, May 11 ..... 7:00 a.m. – 5:00 p.m.  
 Wednesday, May 12 ..... 7:30 a.m. – 1:00 p.m.

— CONTINUED ON NEXT PAGE —



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*Pacific Petroleum Geologist Newsletter* is published bimonthly by the Pacific Section of the American Association of Petroleum Geologists, P.O. Box 1072, Bakersfield, CA 93302; www.psaapg.org (website); psaapg@psaapg.org (e-mail).

Membership dues (including subscription) are \$12 per year. Membership inquiries and change of address should be directed to the Membership Chair.

Articles, news about members and events, and other items of interest to our members are encouraged and should be sent to the Editor. Geological articles should be sent to the Geological Coordinator.

Memorial notices, articles, and photographs should be sent to the Editor. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to our members are encouraged to share their views and ideas by sending letters to the Editor. All letters will be shared with the Executive Committee, and those with relevant and timely content will be published in the newsletter; letters may be condensed to accommodate newsletter space constraints.

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the May & June 2004 issue is April 5, 2004.**

The newsletter is accessible at www.psaapg.org. Member access is by password, and nonmember access to an excerpt is unrestricted.

*March & April 2004 password: crossover*

*May & June 2004 password: database*

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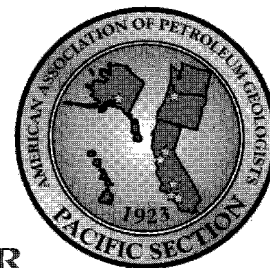
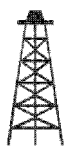


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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

May & June • 2004

## Message from the President: *CATCH THE WAVE!*

Those of you who know me know that there is one thing that I really love to do, and that is get out in the ocean as often as I can and go surfing. Living in Bakersfield puts a few constraints on this activity, but hey... at least I'm not trying to figure out how to get to my favorite break from Midland, Denver, or some other landlocked location. Although most of my time in the water is spent floundering around under the waves instead of on them, occasionally you get that one great wave that makes the day worthwhile.

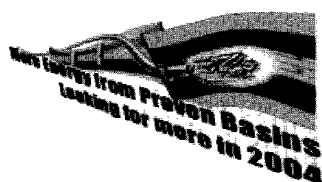
Similarly, the energy industry continues to be riding quite a wave. With record-high prices for both oil and natural gas, things continue to look good for an industry that certainly has had its ups and downs over the years. The days of single-digit oil prices are starting to seem like a distant memory. But this wave seems to have a few rough sections associated with it. In spite of the record prices, the job boom that we historically saw in the late 70s and early 80s does not seem to be there. In contrast, many companies are actually downsizing and consolidating. Consequently, I think it's more important than ever for geologists to take advantage of every resource to keep up technically, as well as to build that important network of contacts that may be the key to future employment opportunities.

One of the best waves you can catch will be offered up by Pacific Section AAPG, SEPM, and SEG from May 9 to May 12. This, of course, is the annual convention, which will be held this year at the Holiday Inn Select in beautiful Bakersfield, California. **John Howe** and his convention committee crew have been

working very hard to make sure that this year's meeting is first rate. With the theme of *More Energy from Proven Basins, Looking for More in 2004*, the technical program has shaped up to include many great talks covering a variety of topics that are relevant to geoscientists working in different areas of the energy business, and the display area will be filled with exhibitors showcasing the latest technologies. In addition, several field trips and short courses are scheduled that will be great opportunities for professional growth and development, as well as for having some fun. And finally, numerous social functions are planned that will provide opportunities to catch up with old friends and to continue developing those all-important networking contacts. I especially encourage everyone to attend the All-Convention Luncheon on Tuesday, May 11. We will be recognizing several Pacific Section members with our annual awards presentation, and our keynote speaker will be AAPG President **Stephen Sonnenberg**.

So in spite of the current prosperity in the energy business, there is still a lot of uncertainty as to what the future will hold for the petroleum industry. As I've mentioned in previous columns, the only real certainty is that there will continue to be changes in the energy industry and the role that geoscientists play. One of the best ways we have to keep up with those changes and maintain a good professional network is to attend the annual meeting. If you can't make it for the whole convention, at least register for a day and attend some of the social functions. This is truly one wave worth catching!

—Allen Waggoner, President, Pacific Section AAPG



Thanks to **ALL** convention committee members, session chairs, presenters, sponsors, exhibitors, and volunteers for your contributions to this convention!

**2004 Pacific Section Convention**  
MAY 9-12 • BAKERSFIELD

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**Alaska Geological Society**  
www.alaskageology.org

P.O. Box 101288  
Anchorage, AK 99510

Contact: Rocky Reifenstuhl  
Rocky@dnr.state.ak.us



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the Anchorage Hilton (500 W.3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$17 (members with reservations) or \$20 (members without reservations and nonmembers). The next meeting is scheduled for May 20. For reservations, call the AGS reservation voice mail at 907-646-7106 or contact **Edna Beuhler** at edna.beuhler@encana.com by noon on Monday before the meeting.



AGS invites you to attend the 2004 AGS Technical Conference, hosted by the University of Alaska Anchorage, on May 7–8. The program includes oral and poster presentations, two field trips, a tour of the Alaska Volcano Observatory, and an evening social event. For more information, see www.alaskageology.org/conference.

**Coast Geological Society**  
www.coastgeologicalsociety.org

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Simmons  
805-375-9262



Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Veterans of Foreign Wars Hall at 3801 Market Street 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 \$15 (with reservations), \$18 (without reservations), or \$8 (students and K-12 teachers); the talk is free. The next meetings are scheduled for May 18 and June 15. For reservations, contact **Shaun Simon** at secretary@coastgeologicalsociety.org or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.



The 2004 CGS Spring Field Trip will take place on May 22 and will address Miocene volcanic rocks in the Santa Monica Mountains. The trip will be led by **Gene Fritsche, Karen Savage, and Roberta Harma**. Check the CGS website for more information.

**Los Angeles Basin Geological Society**  
www.labgs.org

5640 South Fairfax Avenue  
Los Angeles, CA 90056

Contact: Dalton Lockman  
323-298-2242



Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande 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 next meetings are scheduled for May 27 and June 24. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at www.labgs.org or by contacting **Ivan Aburto** at iaburto@breitburn.com or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.



The 2004 LABGS Annual Field Trip will take place on June 26. It will be an all-day trip to one of the most geologically fascinating areas in the Los Angeles basin—the Palos Verdes Peninsula. Participants will be transported by bus, and lunch will be provided. If you are interested in contributing to the guidebook or helping with logistics, contact **Dick Brown** at 562-598-0595.

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dbdelmar@earthlink.net



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). The next meeting is scheduled for May 26. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



The NCGS website (www.ncgeolsoc.org) continues to evolve; it now includes postings of abstracts and biographies of upcoming speakers (when available), photos from field trips, announcements of recent awards and scholarships, and field trip attendance forms.



NCGS is pleased to announce an award of \$1000 to **Chad Pritchard** of Humboldt State University for his Master of Science thesis project, *Deciphering Recent Coseismic Subsidence Events of Northern Humboldt Bay, California*. He will present his research, which is aimed at refining chronology and stratigraphic patterns of salt marsh subsidence and regional synclinal and anticlinal uplift episodes in response to Cascadia Subduction Zone earthquakes, at a future NCGS meeting.



Luncheon meetings are held monthly October through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The meeting starts at 1:00 p.m. The next meeting is scheduled for May 14. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.



Luncheon meetings are held monthly January through November, on the third Wednesday of the month at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The meeting starts at noon. The next meetings are scheduled for May 19 and June 16. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consrv.ca.gov.



SPA and the California Natural Gas Producers Association will hold their Third Annual Golf Tournament on Friday, May 14, at the Yolo Fliers Club in Woodland. For more information, contact **Danielle** at 916-859-4710. The tournament results will be published in SPA's June newsletter.



Become a member of SPA and receive their monthly newsletters for a low annual fee: \$15 for e-mail newsletters or \$20 for paper copies. The 2004 SPA Membership Roster is available free of charge. For more information, contact **Pam Ceccarelli** at pceccare@consrv.ca.gov or 916-322-1097.



Dinner meetings are held monthly October through June, usually on the second Tuesday of the month, at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meeting is scheduled for June 8. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Abby Howell** at 661-654-7303 or abbyhowell@chevrontexaco.com.

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# Schedule of Events



## May 2004

**May 7-8** — AGS 2004 Annual Technical Conference

*Location:* University of Alaska--Anchorage

*Theme:* The Geologic Diversity of Alaska

For details, see [www.alaskageology.org/conference](http://www.alaskageology.org/conference).

**May 9-12** — Pacific Section Convention

*Location:* Bakersfield

*Theme:* More Energy from Proven Basins: Looking for More in 2004

For details, see [www.psaapg.org](http://www.psaapg.org).

**May 14\*** — NWEA Monthly Luncheon Meeting

*Location:* Multnomah Athletic Club, Portland

*Speaker:* TBA

**May 14** — SPA & CNGPA Third Annual Golf Tournament

*Location:* Yolo Fliers Club, Woodland

For details, contact Danielle at 916-859-4710.

**May 18** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speakers:* Gene Fritsche and Karen Savage

*Title:* Santa Monica Mountains Volcanics: Spring Field Trip Preparation

**May 19\*** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* TBA

**May 20** — AGS Monthly Luncheon Meeting

*Location:* Anchorage Hilton, Anchorage

*Speakers:* Dave Goodman and Bob Ravn

*Topic:* TBA

**May 22** — CGS Spring Field Trip

*Title:* Miocene Volcanics of the Santa Monica Mountains

*Leaders:* Gene Fritsche, Karen Savage, and Roberta Harma

For details, see [www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org).

**May 26** — NCGS Monthly Meeting

*Location:* Masonic Center, Orinda

*Speaker:* Jim Ellis (Ellis GeoSpatial)

*Title:* Mapping with Remote Sensing & GIS

**May 27** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* TBA

## June 2004

**June 8** — SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield

*Speaker:* Gary Peterson (San Diego State University)

*Title:* Atmospheres and Oceans of the Terrestrial Planets

**June 15** — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura

*Speaker:* TBA

**June 16\*** — SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento

*Speaker:* TBA

**June 24** — LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach

*Speaker:* TBA

**June 26** — LABGS Annual Field Trip

*Location:* Palos Verdes Peninsula

For details, contact Dick Brown at 562-598-0595.

## Upcoming Events

July 10 • NCGS Field Trip (Merced Formation)

July 21\* • SPA Monthly Luncheon Meeting

August 18\* • SPA Monthly Luncheon Meeting

\*Tentative

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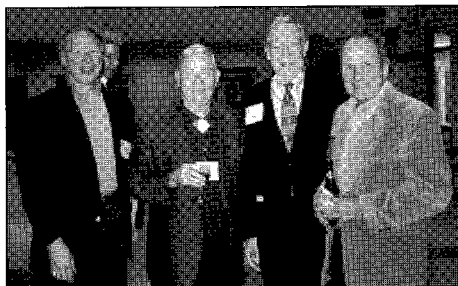
**NEW & REINSTATED MEMBERS** — **Karen Anderson**, California State University, Long Beach, CA (LABGS) • **Javed Azam**, H&R Engineering, Inc., Rancho Palos Verdes, CA (LABGS) • **Earl Brabb**, U.S. Geological Survey, Rocklin, CA (NCGS) • **James Carter**, California Institute of Technology-JPL, La Canada, CA (CGS) • **Jennifer Crews**, ChevronTexaco, Bakersfield, CA (SJGS) • **Will Gaston**, Gaston & Associates, Irvine, CA (LABGS) • **Henry Gerke**, Oxy Resources California, Tupman, CA (SJGS) • **John Larsen**, North Hollywood, CA (LABGS) • **David Miner**, Oxy of Elk Hills, Tupman, CA (SJGS) • **Keith Murray**, Self Employed, Lakewood, CO • **Kay Schrodt**, ChevronTexaco, Bakersfield, CA (SJGS) • **Linda Specht**, Core Laboratories, Bakersfield, CA (SJGS)

**IN MEMORY** — **Roger M. Dungan**, Panorama Village, TX (February 28, 2004) • **Stanley Edward Karp**, Bakersfield, CA (April 22, 2004)

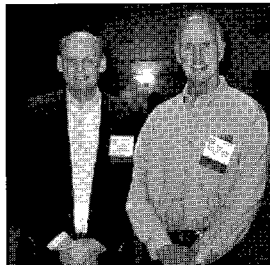
**MEMBERS LEADING THE WAY** — The 23rd Annual Leadership Conference of AAPG was held at the Post Oak Lodge in the Osage Hills west of Tulsa on February 6–8. The conference was hosted by AAPG and President **Steve Sonnenberg** and allowed the leaders of AAPG to discuss and define ways to advance our profession and the benefits of membership in AAPG. There were 128 people at the conference, including members and their guests, representatives from sister societies, and AAPG staff (photos courtesy of Bob Lindblom).



L-R: Pacific Section AAPG representatives **Steve Sanford**, **Allen Waggoner**, **Don Lewis**, **Bob Lindblom**, **Bob Countryman**, **Don Clarke**, and **Kay Pitts**.



L-R: **John Lorenz** (AAPG Bulletin Editor), **Bob Lindblom**, **Dan Smith** (AAPG Past President), and **Stu Chuber** (AAPG 2004 Honorary Member and Southwest Section AAPG member).

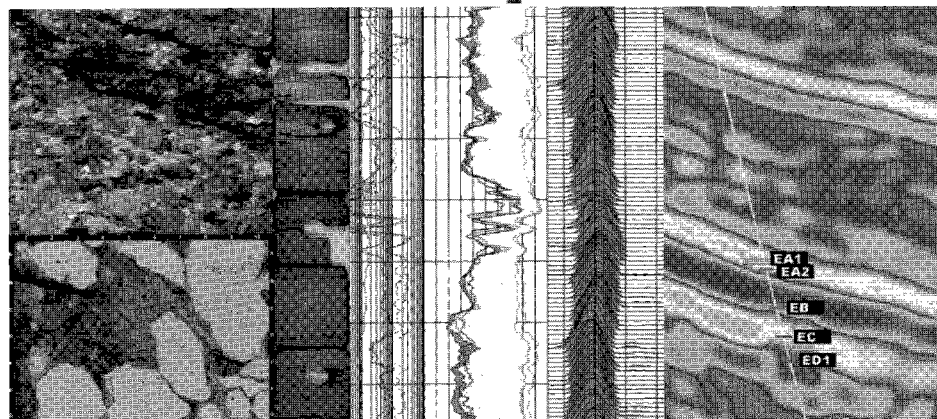


L-R: **Erik Mason** (AAPG Vice President) and **Steve Sonnenberg** (AAPG President).



**George Eynon** (AAPG House of Delegates Chairman) and **Kay Pitts** (candidate for AAPG Treasurer).

## Reservoir Optimization



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## SAN GABRIEL FAULTS — Newhall Area, Los Angeles County, California

HENRY WALROND, GEOLOGIST, BAKERSFIELD, CALIFORNIA

The San Gabriel fault, as mapped by most current workers, extends from the eastern Los Angeles County line northwesterly to the Frazier Mountain area in northeastern Ventura County. It is considered by many to be a major strike-slip system, ancestral to the San Andreas fault, with a cumulative right separation up to 60 km. In the Newhall area, located in the upper reaches of the eastern Ventura basin, the fault trend can be subdivided into three segments (Weber, 1982): the Palomas on the north, the Honor Rancho in the middle, and the Newhall on the south (Figure 1). Early workers mapped the northerly and southerly segments as individual and separate faults: the northerly Palomas (originally called the Palomas Canyon fault) and the southerly

Newhall segment, representing the northwesterly end of the San Gabriel fault.

The Palomas segment has generally been restricted to the mappable trace that defines the western border of the Ridge Basin and separates crystalline basement on the west from Plio-Miocene sediments on the east. The central or intervening Honor Rancho disturbed zone extends through the Castaic Hills-Honor Rancho oil fields downwarp area (the depocenter of both the Pliocene and Miocene basins) and is the indicated connection between the northern and southern two segments. The fault trace through this area is mostly inferred from a zone of steep and discordant Pleistocene surface dips with little or no supporting evidence

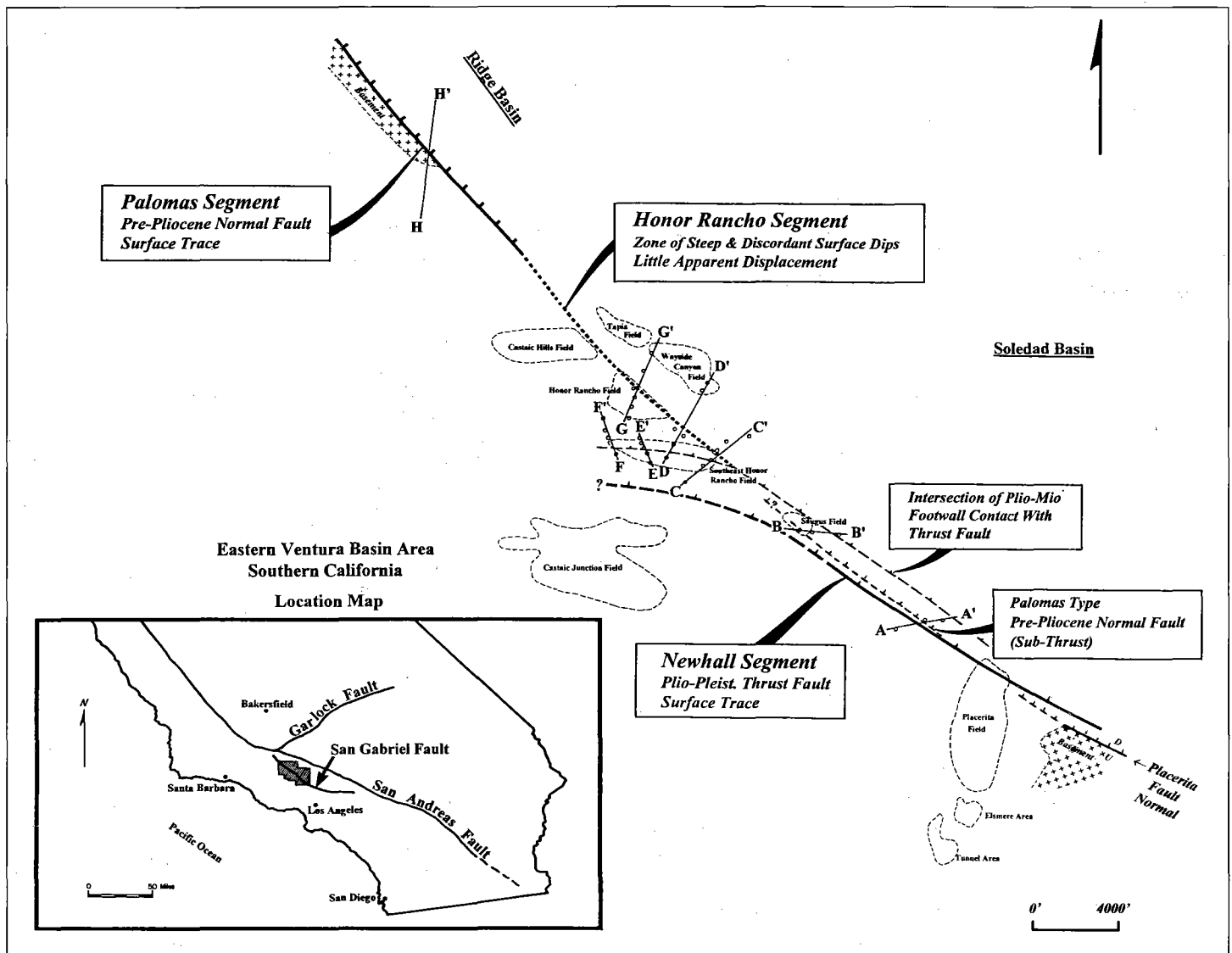


Figure 1. Map showing segments of the northwestern San Gabriel fault system.



of either surface or subsurface displacement (see Figures 3 [B-B'], 4 [C-C'], and 5 [D-D']). The trace of the southerly or Newhall thrust segment is exposed at the surface where it extends northerly from the vicinity of the Placerita oil field to just south of the Saugus oil field.

In spite of the fact that the Palomas and Newhall segments appear to share a common trend throughout the Placerita-Saugus area, and additionally appear to be connected at the surface (weakly) by the Honor Rancho segment, evidence from good well control along the trend strongly suggests that they are genetically unrelated. In this regard, however, other workers (most notably Yeats and others, 1994) note that the San Gabriel fault "changes character in the east Ventura basin. From Honor Rancho oil field northwestward, the fault is straight, striking N40°W and dips steeply northeast with normal stratigraphic separation. Southeast of Honor Rancho, the fault is curved in plan and convex southward. At Saugus oil field, the strike is N55°W; at Placerita oil field, the strike is N70°W. Dip is steeply to the northeast, but with reverse separation rather than normal."

### Newhall Segment

A series of detailed cross sections (Figures 2 through 7) were constructed from south to north through available well control. These sections clearly demonstrate that the Newhall segment, located between the Placerita and Honor Rancho oil fields, is a low-angle, northeasterly dipping, Pleistocene or younger reverse fault that makes a pronounced westerly swing in the Honor Rancho oil fields vicinity (effecting, in part, the northerly closure of the Southeast Honor Rancho pool) before apparently dying out west of Figure 7 (F-F') in a zone of steep and overturned dips. In the absence of outcrop evidence, subsurface conformation of this westerly swing of the Newhall segment is shown by the trace of the intersection of the Plio-Miocene contact in the footwall with the thrust fault (Figure 1). There is no credible evidence of the thrust extending in a more northerly direction through the central or disturbed zone (see Figures 4 [C-C'] and 5 [D-D']), and note where the projected trace of the San Gabriel fault is located on the cross sections).

### Palomas Segment

The easterly dipping Palomas fault is pre-early Pliocene to late Miocene in age (Figure 7 [H-H']) and (depending on the investigator) has, in addition to the obvious normal northeasterly throw, a right-lateral separation ranging from 3 to 60 km. It is uncertain how far the Palomas segment extends to the south, but continuation is indicated on Figure 4 (C-C') located in the Honor Rancho segment, which shows a possible easterly dipping, Miocene, normal fault; farther south, a Palomas-type fault lying beneath the Newhall segment reverse fault is clearly displayed on Figure 2 (A-A') just north of the Placerita oil field (note the close similarity between Figures 2 [A-A'] and 7 [H-H']). Finally, the Placerita fault, located southeast of the Placerita oil field, trends parallel to and lies just south of the San Gabriel fault. It delineates

basement on the south from Pliocene on the north, and could be the southerly end of the Palomas fault.

Although the Palomas and Newhall segments are perceived to be united because they have a common trend for a short distance, the compelling subsurface well control along the fault trend shows that the two segments are unrelated both in geometry and age, and, in all likelihood, they terminate locally. The low-angle Newhall thrust segment overrides the older Palomas normal fault for a short distance and dies out to the northwest in the central part of the basin. The older Palomas, possibly represented by the Placerita fault, dies out just south of the Placerita oil field.

Early field workers in the area mapped the Palomas and San Gabriel as two separate faults. Later, on the basis of more detailed paleogeographic and subsurface investigations, a one-fault, large-lateral-displacement concept was advanced (Crowell, 1952); in spite of a few clear and convincing rebuttals (Paschall and Off, 1961) and ongoing field studies advocating relatively small lateral movement (Weber, 1982), the concept has become firmly entrenched in the literature and enjoys wide acceptance in the geologic community today. Although this concept may be correct, the older fault is not observable throughout the span of the Honor Rancho-Newhall area, where it is hidden beneath younger thrusting.

Considering the forgoing and cross-section evidence, this area has a more complex history than that advocated by most modern workers. In addition, remembering that with any scientific concept the door is seldom closed, it might be reasonable to keep an open mind to the possibility that the early Palomas-San Gabriel distinction was correct.

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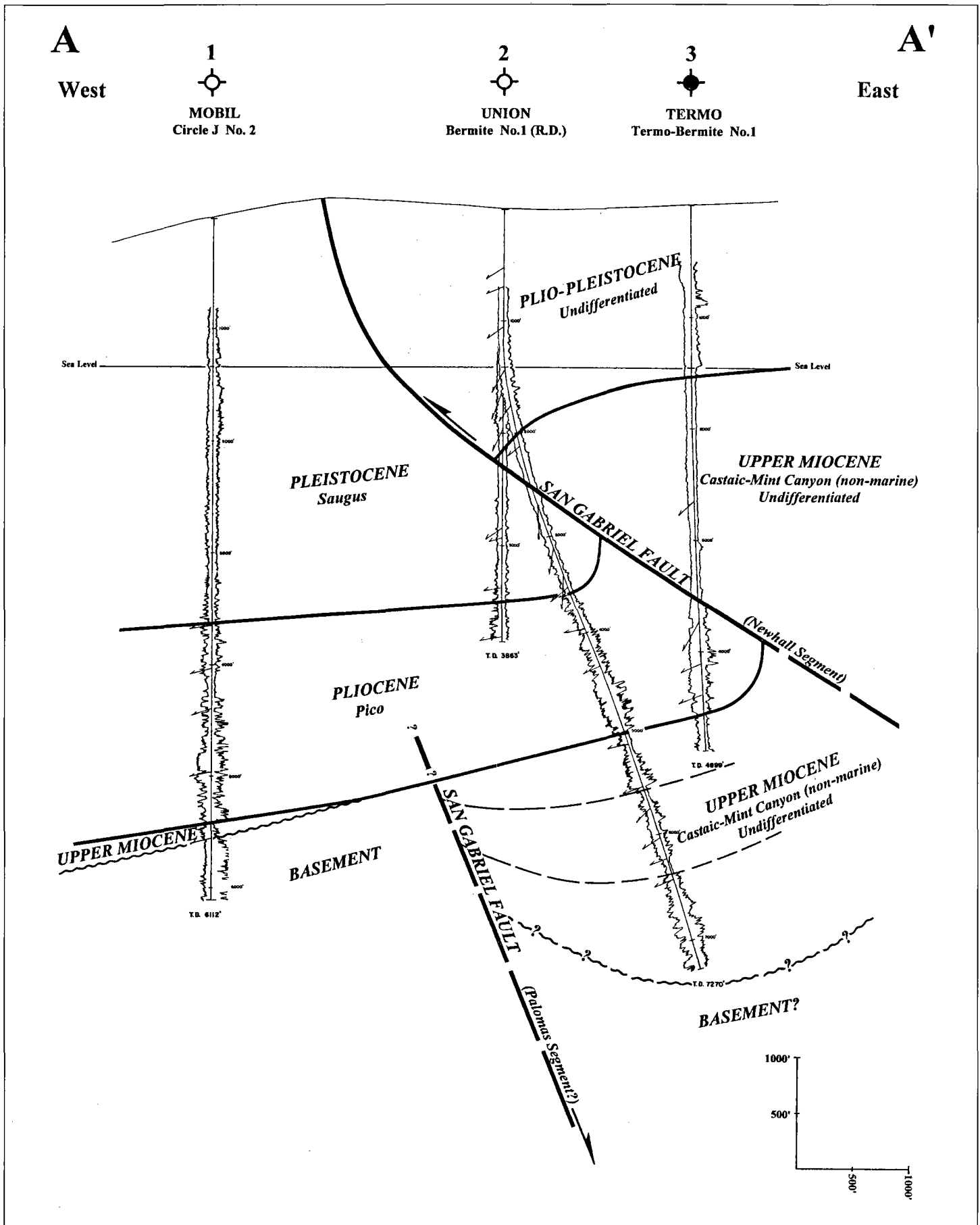


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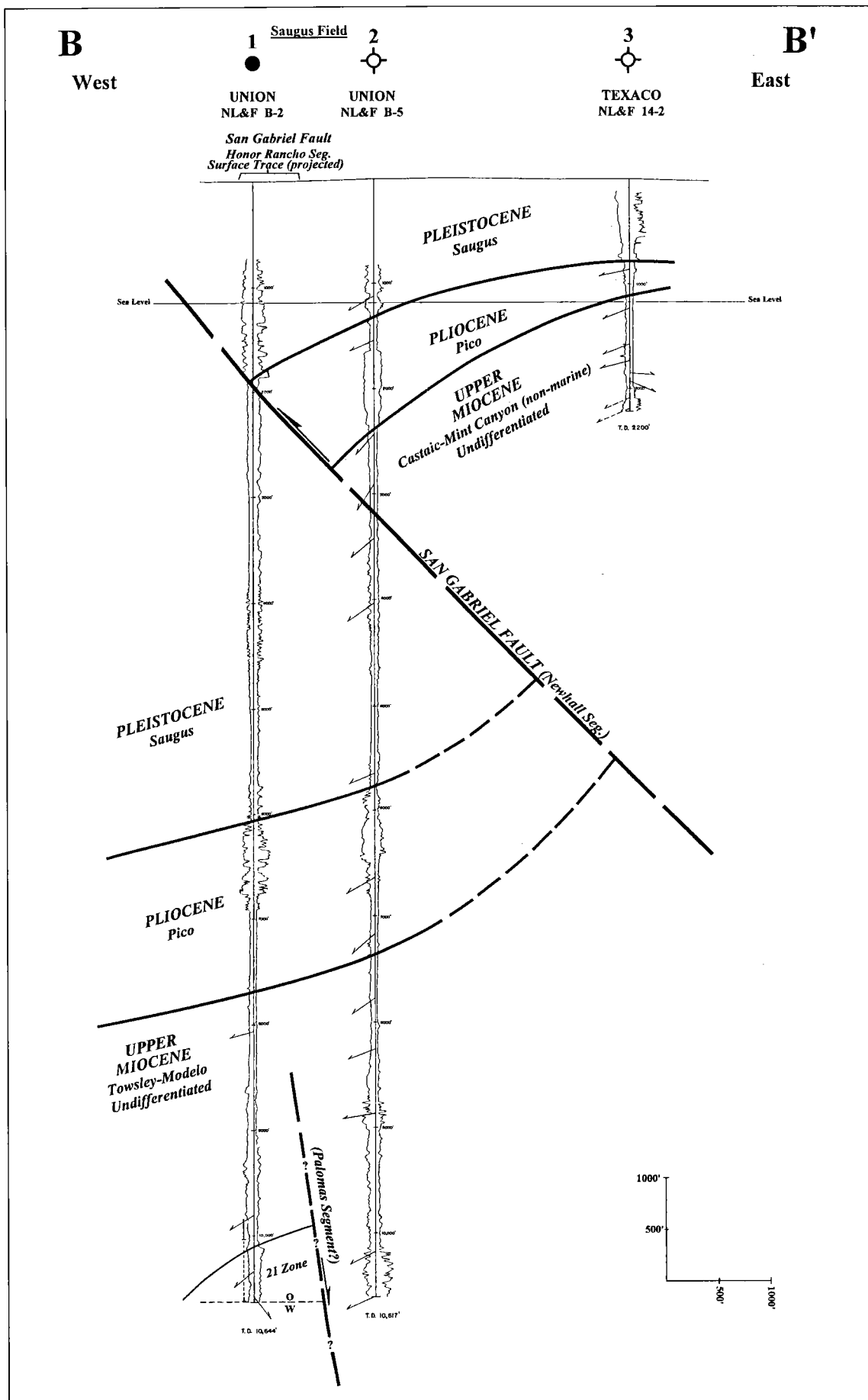
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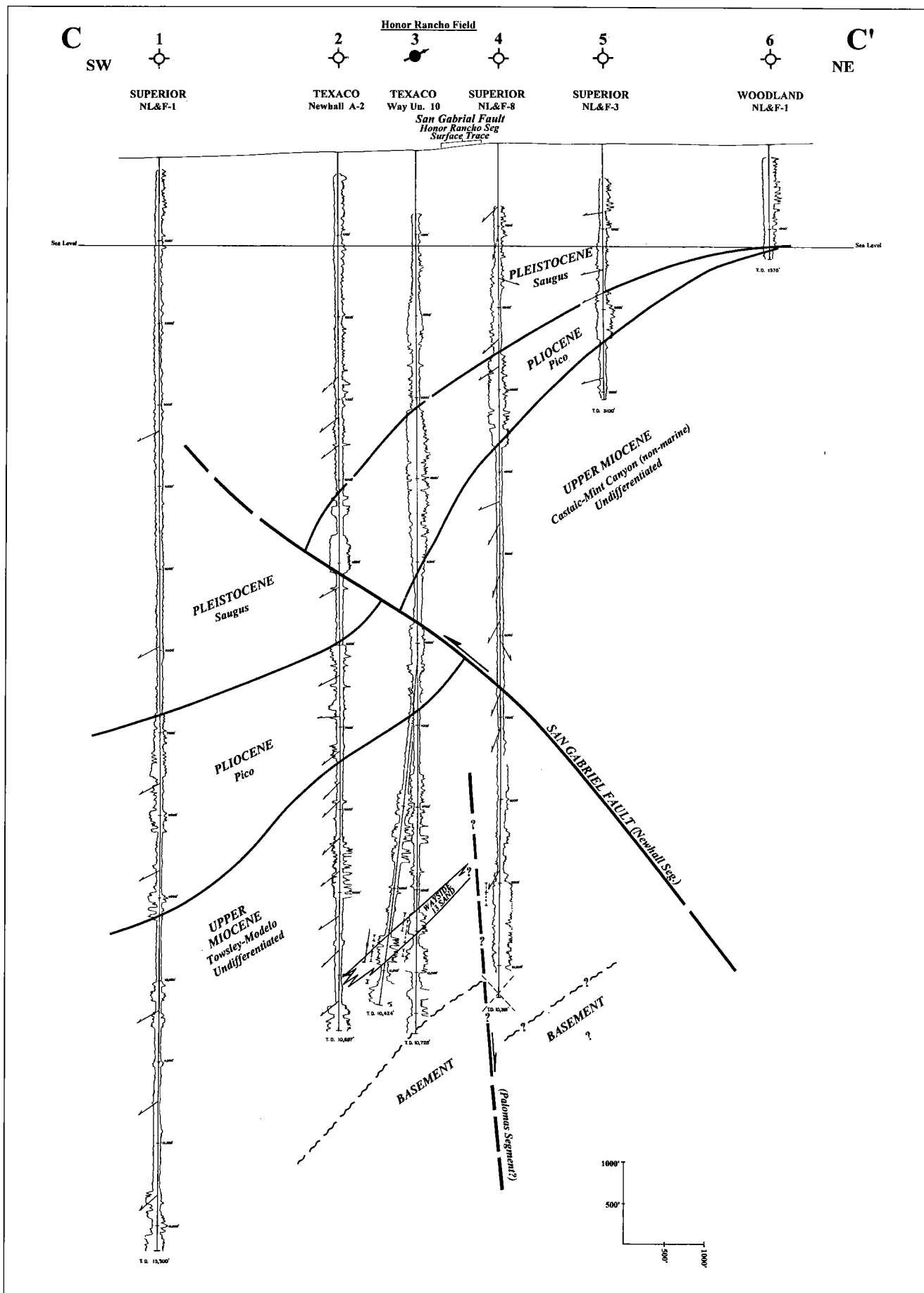
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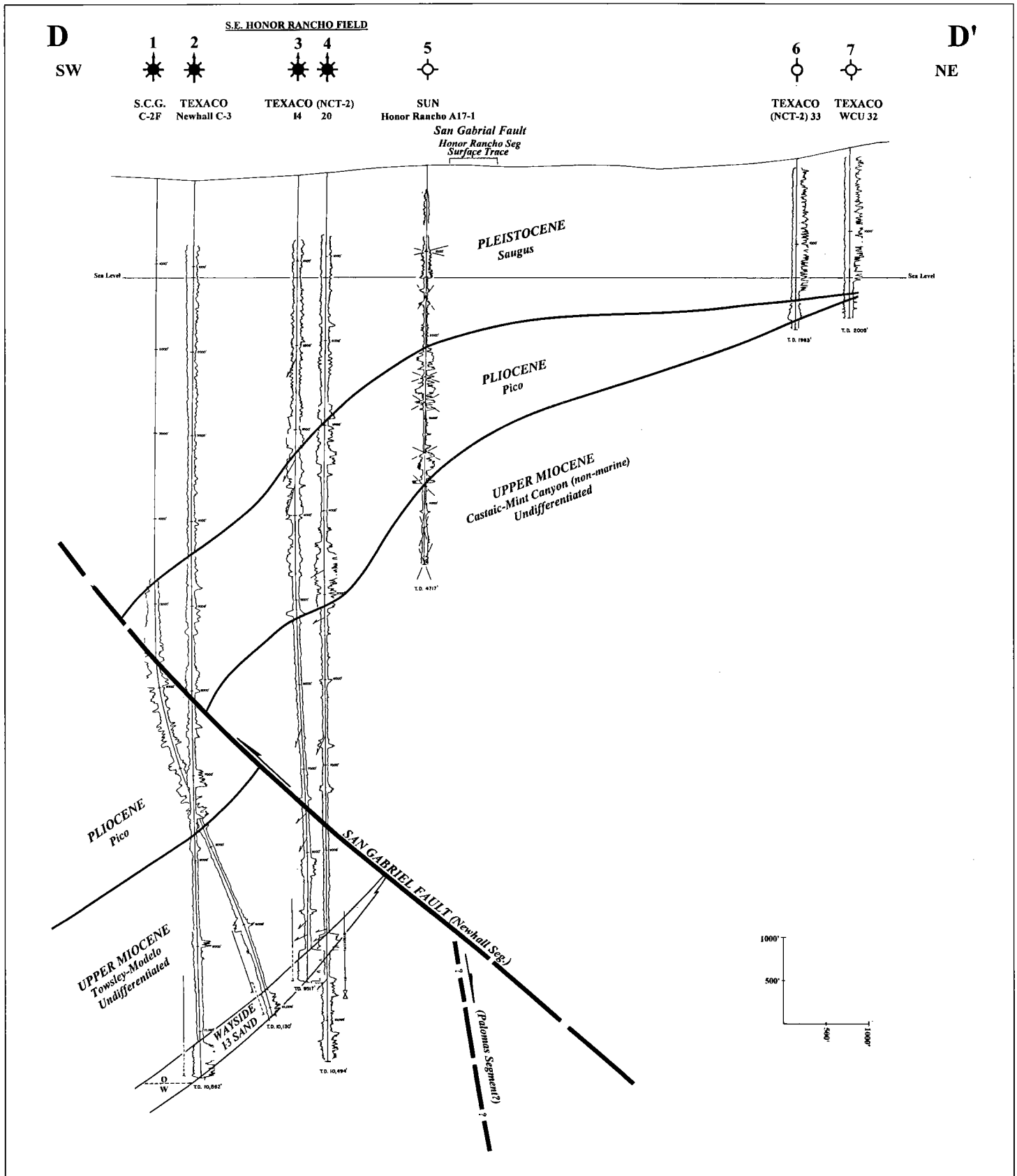
**Figure 2.** Cross section A-A'.



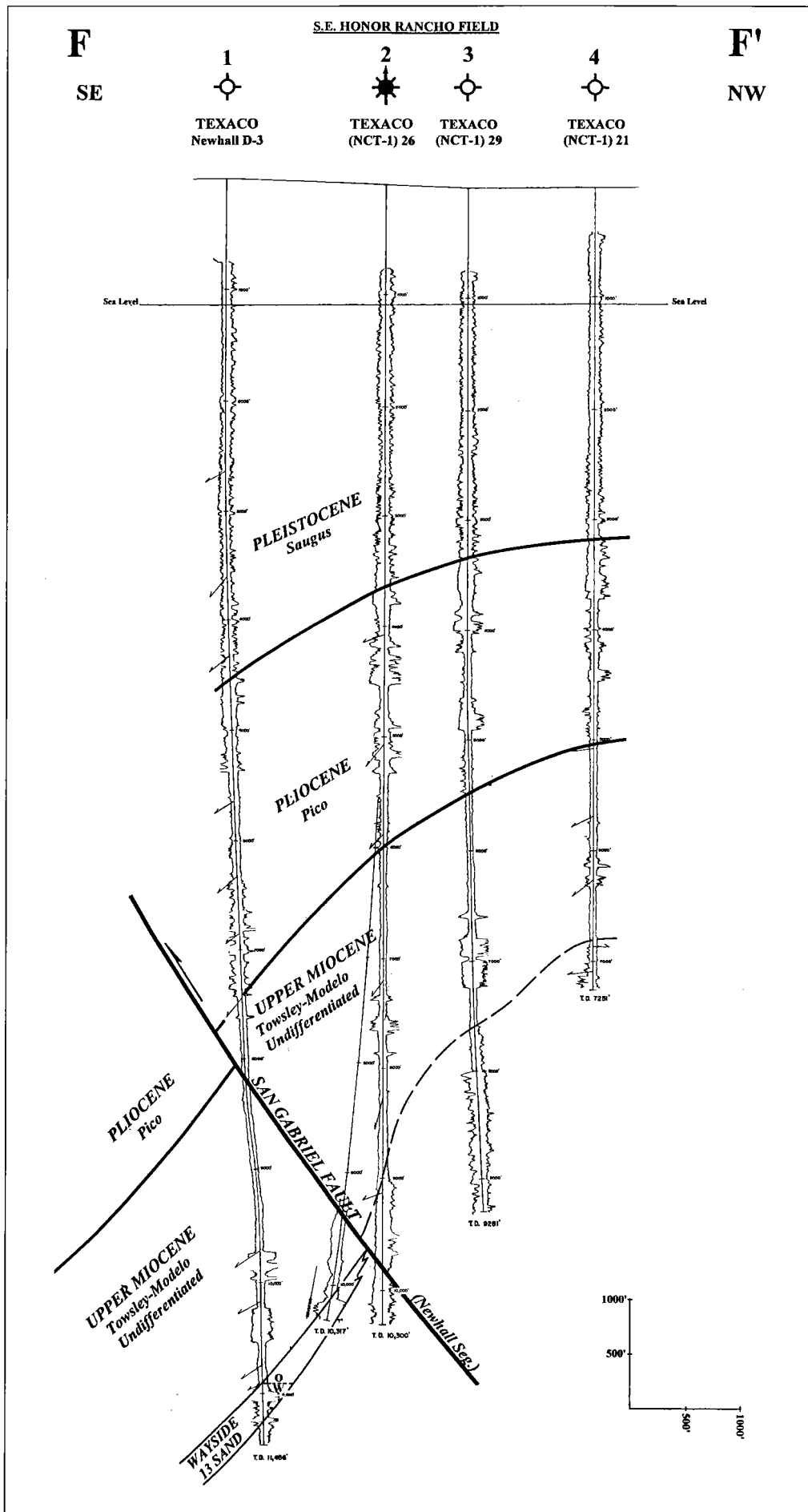
**Figure 3.** Cross section B-B'.



**Figure 4.** Cross section C-C'.



**Figure 5.** Cross section D-D'.



**Figure 6.** Cross section F-F'.

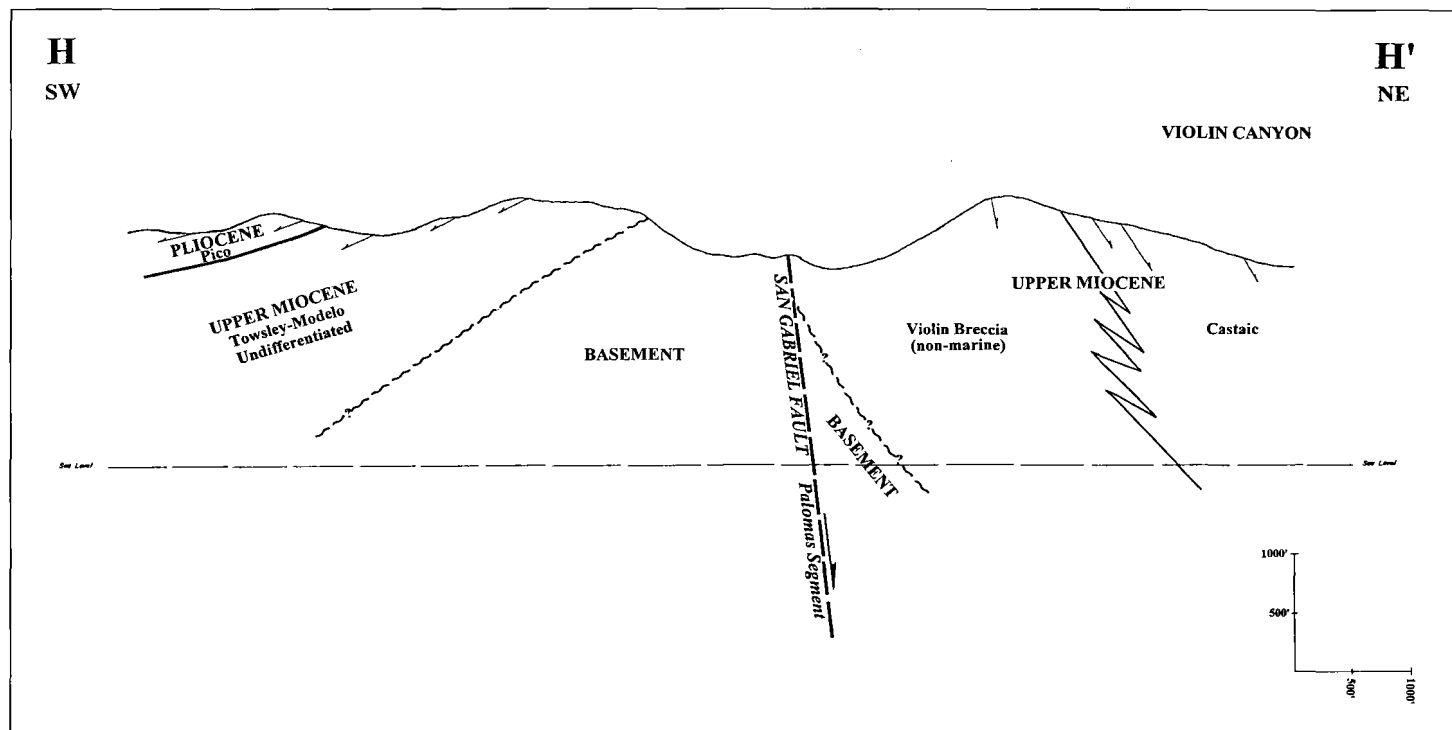


Figure 7. Cross section H-H'.

**Appendix.** Names, locations, and total depths of wells in cross sections.

Section	Well	Name	Location (all in SBB&M)			T.D. (ft)
A-A'	1	MOBIL Circle J. No. 2	T. 4 N	R. 16 W	Sec. 25	6,112
A-A'	2	UNION Bermite No. 1	T. 4 N	R. 16 W	Sec. 25	3,863
A-A'	3	TERMO Bermite No. 1	T. 4 N	R. 16 W	Sec. 25	4,899
B-B'	1	UNION NL&F No. B-2	T. 4 N	R. 16 W	Sec. 15	10,644
B-B'	2	UNION NL&F No. B-5	T. 4 N	R. 16 W	Sec. 15	10,617
B-B'	3	TEXACO NL&F No. 14-2	T. 4 N	R. 16 W	Sec. 15	2,200
C-C'	1	SUPERIOR NL&F No.1	T. 4 N	R. 16 W	Sec. 8	13,300
C-C'	2	TEXACO Newhall No. A-2	T. 4 N	R. 16 W	Sec. 8	10,697
C-C'	3	TEXACO Way. Unit No.10	T. 4 N	R. 16 W	Sec. 8	10,725
C-C'	4	SUPERIOR NL&F 8	T. 4 N	R. 16 W	Sec. 8	10,391
C-C'	5	SUPERIOR NL&F 3	T. 4 N	R. 16 W	Sec. 9	3,100
C-C'	6	WOODLAND NL&F 1	T. 4 N	R. 16 W	Sec. 4	1,375
D-D'	1	S.C.G. C-2F	T. 4 N	R. 16 W	Sec. 8	10,130
D-D'	2	TEXACO Newhall C-3	T. 4 N	R. 16 W	Sec. 8	10,562
D-D'	3	TEXACO (NCT-2) 14	T. 4 N	R. 16 W	Sec. 8	9,517
D-D'	4	TEXACO (NCT-2) 20	T. 4 N	R. 16 W	Sec. 8	10,494
D-D'	5	SUNRAY Honor Rancho A17-1	T. 4 N	R. 16 W	Sec. 5	4,717
D-D'	6	TEXACO (NCT-2) 33	T. 4 N	R. 16 W	Sec. 5	1,963
D-D'	7	TEXACO WCU 32	T. 4 N	R. 16 W	Sec. 5	2,005
F-F'	1	TEXACO Newhall D-3	T. 4 N	R. 16 W	Sec. 7	11,456
F-F'	2	TEXACO (NCT-1) 26	T. 4 N	R. 17 W	Sec. 12	10,317
F-F'	3	TEXACO (NCT-1) 29	T. 4 N	R. 17 W	Sec. 1	9,281
F-F'	4	TEXACO (NCT-1) 21	T. 4 N	R. 17 W	Sec. 1	7,251

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Membership dues (including subscription) are \$12 per year. Membership inquiries and change of address should be directed to the Membership Chair.

Articles, news about members and events, and other items of interest to our members are encouraged and should be sent to the Editor. Geological articles should be sent to the Geological Coordinator.

Memorial notices, articles, and photographs should be sent to the Editor. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to our members are encouraged to share their views and ideas by sending letters to the Editor. All letters will be shared with the Executive Committee, and those with relevant and timely content will be published in the newsletter; letters may be condensed to accommodate newsletter space constraints.

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the July & August 2004 issue is June 7, 2004.**

The newsletter is accessible at www.psaapg.org. Member access is by password, and nonmember access to an excerpt is unrestricted.

*May & June 2004 password: database*

*July & August 2004 password: outcrops*

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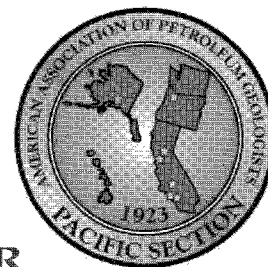
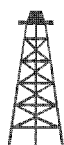


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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

September & October • 2004

## Message from the Incoming President:

As incoming President of the Pacific Section AAPG, I look forward to continuing the legacy of my predecessors in sustaining and growing the oldest section of the national AAPG. Like my predecessors, my anticipation includes both a sense of opportunity and trepidation. Opportunity, because of the many ways the PSAAPG can serve its members. Trepidation, because of the personal challenge of effectively serving and leading the section. My trepidation is, however, tempered by my experience serving in the Pacific Section in various capacities over the past 3 years. In this time I have worked under past presidents **Allen Britton**, **Tom Hopps** and most recently **Allen Waggoner**, all of whom provided me with many examples of good leadership.

My optimism is further fueled by the outstanding abilities of my colleagues in the Pacific Section. These abilities were demonstrated most recently by the 2004 convention committee who did such an outstanding job planning and executing our recent Pacific Section convention in Bakersfield. I would like to thank the convention chairman **John Howe** and his committee for the great job they did. I look forward to working with the newly elected executive committee of the Pacific Section. **Joan Barminski** is the new President-elect, **Mike Wracher** the new Vice-President, and **Karen Blake** the new Secretary. **Nancy Wildman** continues ably in her capacity as Treasurer. Along with these new elected officers, the Pacific Section is fortunate to have two able successors to our past newsletter editor and webmaster. **John Harris** volunteered to take over the job of newsletter editor and **Hana Baker** has assumed the role of webmaster. John comes on board as we thank **Cathie Dunkel** for her outstanding work as editor for the past four years. Thanks also to **Frank Victor**, outgoing webmaster who first put together our website four years ago.

Like my predecessors, I have looked ahead, considering what I will do as President. In looking ahead, I am guided by the mission of the AAPG, which is to further the profession and practice of geology. I will, of course, attend to the essential activities of the Pacific Section. These essentials center around the work of our executive committee to publish the newsletter, manage the PSAAPG foundation, and plan future conventions. For my discretionary efforts to promote our profession, I intend to focus on two areas; growing the section and reaching out to the schools in our communities. Growing the section furthers our profession by insuring continued and perhaps expanded service to our members. Educational outreach benefits us by creating a better understanding and appreciation of our profession and industry. Educational outreach also appeals to me as a means for us to give something back to the places we live. You will hear more thoughts from me on these two efforts in the future, and perhaps an appeal for your help.

In looking forward to my term as President, I am reminded of ancient words of wisdom that we are called to "serve one another with whatever gifts we have received". While not claiming any great gifts, I do look forward to serving the membership of the Pacific Section. With the help of you, the members, we can make the Pacific Section a even better organization.

Steve Sanford  
President, Pacific Section AAPG

### — IN THIS ISSUE —

Message from our Past President .....	2
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## Message from the Outgoing President: Thanks



"It's easy, you really don't have to do anything." These are the famous words I vaguely remember hearing when I agreed to become a candidate for Pacific Section president a couple of years ago. Well, there is a little bit more to it than that but it is hard to believe that my term as president is coming to an end. All in all, we have had a very good year and I am proud to leave Pacific Section on solid ground, both in terms of our membership and financially. As individual sections go within AAPG, Pacific Section is the smallest in terms of numbers but we continue to be blessed with a very active and involved membership that has helped us stay on the cutting edge in many areas.

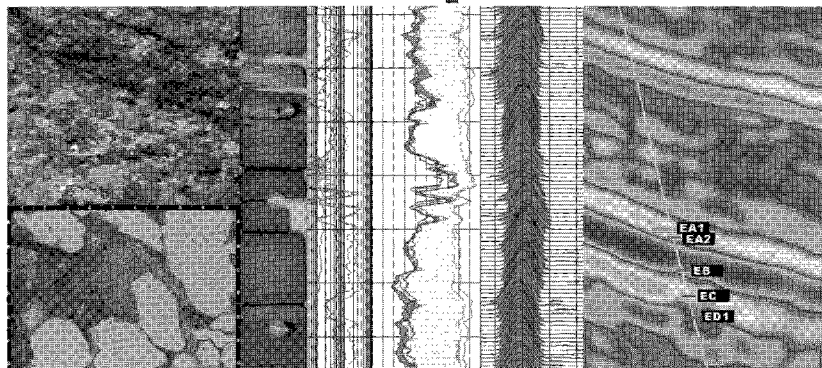
I would like to extend a whole lot of thanks to those members who were actively involved with Pacific Section leadership by serving on the Executive Committee over the past year. Thanks to President Elect **Steve Sanford** and Vice President **Jon Schwalbach** for your sound advice and assistance throughout the year. Thanks also to **Mike Wracher** for serving as Secretary and being absolutely faithful in getting out agendas and meeting minutes, and to Treasurer **Nancy Wildman** for writing the checks and handling the intricacies of our finances and bank accounts. Special thanks to Past President **Tom Hopps** for his sage advice throughout the year, putting up with my constant string of questions and especially for his hospitality in hosting those all important strategy/planning meetings. In addition to the Executive Committee officers, I would also like to thank all of the other Executive Committee members who continue to serve and make the organization run smoothly.

One of the greatest tributes to the involvement of Pacific Section membership was the success of the annual meeting which was held last May in Bakersfield. Registration for the convention topped 460 and it appears that financially this may have been one of Pacific Section's most successful meetings. Again, thanks to Convention Chairman **John Howe** and the 2004 Convention Committee for a job well done. We all look forward to next year's meeting in San Jose which will be a joint meeting with the Geological Society of America (GSA), hosted by the Northern California Geological Society.

As mentioned previously, one of our greatest assets is an active and involved membership. I would like to take this opportunity to thank all of the people that stepped forward and ran for office this year and congratulations to the incoming members of the Executive Committee for 2004-2005. I would also like to encourage everyone to get involved. Run for an office, serve on a committee, help with a convention. Through the continued involvement of our membership we can keep Pacific Section strong and active for many years to come.

Allen Waggoner  
Past President, Pacific Section AAPG

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## Alaska Geological Society

[www.alaskageology.org](http://www.alaskageology.org)

P.O. Box 101288  
Anchorage, AK 99510

Contact: Sue Karl  
[skarl@usgs.gov](mailto:skarl@usgs.gov)



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$17 (members with reservations) or \$20 (members without reservations and nonmembers). For reservations, call the AGS reservation voice mail at 907-646-7106 or contact **Edna Beuhler** at [edna.beuhler@encana.com](mailto:edna.beuhler@encana.com) by noon on Monday before the meeting.

## Coast Geological Society

[www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org)

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Simmons  
805-375-9262



Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Veterans of Foreign Wars Hall at 3801 Market Street 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 \$15 (with reservations), \$18 (without reservations), or \$8 (students and K-12 teachers); the talk is free. The next meeting is scheduled for September 18. For reservations, contact **Dave Brown** at (805) 653-7975 or make reservations online at [www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org). Reservations should be made by 4:00 p.m. on Friday before the meeting.



The 6th Annual John Woolley Memorial Golf Tournament will be held at Elkins Ranch Golf Course in Fillmore, CA on October 8th. Check the CGS website for more information.

## Los Angeles Basin Geological Society

[www.labgs.org](http://www.labgs.org)

5640 South Fairfax Avenue  
Los Angeles, CA 90056

Contact: Dalton Lockman  
323-298-2242



Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande 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 next meetings are scheduled for May 27 and June 24. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at [www.labgs.org](http://www.labgs.org) or by contacting **Ivan Aburto** at [iaburto@breitburn.com](mailto:iaburto@breitburn.com) or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.

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[dbdelmar@earthlink.net](mailto:dbdelmar@earthlink.net)



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). The next meeting is scheduled for September 11. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).

The SEPM fall Field Trip, Geology of the San Andreas fault in the Santa Cruz Mountains is scheduled for October 8-10, 2004. Check the NCGS website for more detail.



Luncheon meetings are held monthly October through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The meeting starts at 1:00 p.m. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.



Luncheon meetings are held monthly January through November, on the third Wednesday of the month at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The meeting starts at noon. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consvr.ca.gov.



Dinner meetings are held monthly October through June, usually on the second Tuesday of the month, at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meeting is scheduled for June 8. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Rob Fairman** at 661-665-5099 or rpfairman@aeraenergy.com.



The SJGS Annual Golf Tournament and BBQ at the Kern River Golf Course and Kern County Museum will be held September 10th. See the SJGS website for details.

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# Schedule of Events



## September 2004

**September 10** -- SJGS Annual Folf Tournamant and BBQ.  
*Location:* Kern River Golf Course and Pioneer Village in the Kern County Museum.

For details, see [www.sjgs.com](http://www.sjgs.com)

**September 11** -- NCGS Monthly Dinner Meeting  
*Location:* Masonic Center, Orinda  
*Speaker:* David Bero

**September 18** -- BLM Field Trip: *Mother Lode Gold Belt Field Trip*  
For details and reservations, contact Gregg Wilkerson at 661.391.6081

**September 21** -- CGS Monthly Dinner Meeting  
*Location:* Veterans of Foreign Wars Hall, Ventura  
*Speaker:* Larry D. Gurrola

**September 23** — LABGS Monthly Luncheon Meeting  
*Location:* The Grand at Willow Street Centre, Long Beach  
*Speaker:* David Mayo

## October 2004

**October 8-10** — NCGS SEPM Fall Field Trip  
*Theme:* Geology of the San Andreas Fault in the Santa Cruz Mountains  
For details see [www.ncgeolsoc.org](http://www.ncgeolsoc.org)

**October 19** — CGS Monthly Dinner Meeting  
*Location:* Veterans of Foreign Wars Hall, Ventura  
*Speaker:* TBA

**October 28** — LABGS Monthly Luncheon Meeting  
*Location:* The Grand at Willow Street Centre, Long Beach  
*Speaker:* Tanya Atwater

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## Pacific Section AAPG Teacher of the Year Award: Marilyn Bachman

The Pacific Section AAPG Teacher of the Year Committee has selected Marilyn Bachman as the winner of the 2004 Pacific Section AAPG Teacher of the Year Award.

Marilyn is a graduate of the University of Washington, where she earned her Bachelor of Arts degree and attended the Graduate School of Education. An educator since 1969, she is currently a science and math teacher at Montecito Union School in Santa Barbara, California.



Marilyn displays tremendous enthusiasm and passion for teaching. She has not slowed down in her 35 years of teaching, but continues to gain momentum, approaching each day as a new journey taken with her students. Marilyn is often recognized as an expert in both science education and working with gifted students, she taps into the potential of all students, taking them to great heights. At the end of the school year, Marilyn writes each student a personal letter documenting their successes. We have heard from some families that their children frame these letters. From handwritten letters to email messages to personal visits, she is continually acknowledged by her former students as having made a profound difference in their lives. Students know that her classroom is a safe, inclusive, and equitable learning community. This creates an environment where all students thrive and strive to do their best. Not only is she passionate about teaching, she is also passionate about excellence in education, and the bottom line for her is "what's best for the kids?"

As a colleague, Marilyn is a well-respected staff member. Her enthusiasm for the ideas put forth by her colleagues is sincere, and she thrives on collaborative professional relationships with other teachers. Marilyn is committed to staying current and changing as the demands of education change. As science is her true passion, she has been the leading voice on her faculty, motivating everyone to embrace the new science standards and to developing meaningful, hands-on science curricula. She readily mentored teachers at each grade level on how to align their standards and develop new science units. She has served as chairperson of our district science committee for nearly 20 years. Also, she has led science staff development in numerous districts throughout Santa Barbara County and elsewhere, including Alaska. Marilyn has consulted in the areas of authentic science assessment both at the state level and through the National Science Foundation. Whenever our sixth-grade team or any other grade level is in the process of developing a new science unit, Marilyn selflessly and enthusiastically gives her guidance, expertise, and time. Posing questions, offering solutions, and investigating new ideas and techniques is part of what makes Marilyn tick. She always has new and innovative ideas to share.

On a personal level, Marilyn is forthright, wise, patient, and persistent; yet she is not afraid to ask for help when she needs it. She is an extraordinary team player, and her generosity extends to all who know her. Students and colleagues alike have shared in the stories of her family, whether it is about bicycling in the Canadian Rockies or sending two daughters off to college. Marilyn never loses sight of the big picture: she knows and understands what is really important and meaningful to others and to herself. These are just some of the qualities that make her an extraordinary teacher, colleague, and friend.

—Carter Morgan and Sue Carmody

## President's Award: Cathie Dunkel

In May of 2003, last year's president, Tom Hopps, initiated a new award which was designated as the President's Award. The award is given at the discretion of the President for excellent and longstanding service to the Pacific Section. Four years ago, Cathie Dunkel took the job of editor for the *Pacific Petroleum Geologist*, Pacific Section's newsletter. During her time as editor, the newsletter has evolved into a first class publication that we all look forward to every other month. In addition to her work as newsletter editor, Cathie has served the Pacific Section for many years by helping with many of the other publications necessary to keep the section going. In recognition of her dedicated service, the 2004 recipient of the President's Award is Cathie Dunkel.



-- Allen Waggoner

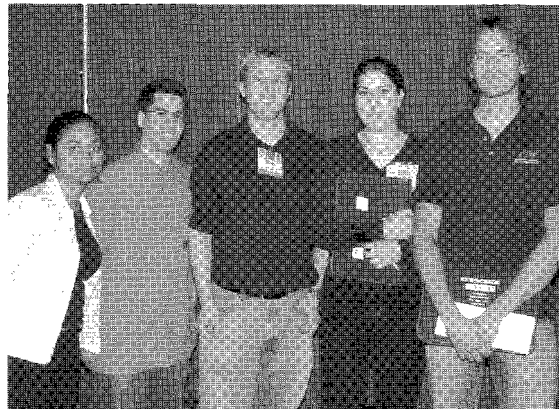




## Pacific Sections AAPG & SEPM Martin Van Couvering Award

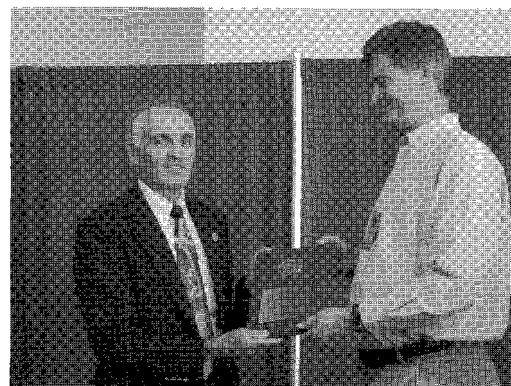
The Martin Van Couvering Award is presented jointly by the Pacific Section of AAPG and the Pacific Section SEPM (Society for Sedimentary Geology). The award was created to encourage university student attendance and participation at Pacific Section meetings and field trips. At the request of the Pacific Section, deserving students are selected by faculty at universities local to the annual convention. This year's recipients are:

Whitney Behr (California State University, Northridge)  
Sophia Cobos (California State University, Bakersfield)  
Shelby Dawson (California State University, Northridge)  
John Huff (California State University, Bakersfield)  
Brian Taylor (California State University, Bakersfield)



## AAPG A. I. Levorsen Memorial Award: Morgan D. Sullivan

The A. I. Levorsen Memorial Award is given by AAPG in recognition of the best paper presented at each AAPG section meeting, with particular emphasis on creative thinking toward new ideas in exploration. The award is made at the section meeting for papers presented at the previous year's meeting. The winner of the 2003 award is Morgan D. Sullivan, Assistant Professor at California State University at Chico. Dr. Sullivan presented the paper entitled *Fluvial-Deltaic Cyclicality, Ridge Basin, Southern California: Evidence for Kinematic Cyclostratigraphy*. The paper was co-authored by Kenneth Ehman of Skyline Ridge, Inc.



## Pacific Section AAPG H. Victor Church Memorial Award: Robert D. Francis

The H. Victor Church Memorial Award is given by the Pacific Section AAPG in recognition of the best poster presented at the annual Pacific Section meeting. This award is made at the annual section meeting for a poster presentation at the previous year's meeting.

The H. Victor Church Memorial Award was established to build a lasting memorial to the technical prowess of H. Victor Church. The focus of the award is on creative thinking toward new ideas in exploration, development geology, or foundational geology. Peers judge the posters at each session, and scores are compiled and reviewed by the convention judging committee to determine the overall winner.

The winner for the best poster at the 2003 Pacific Section AAPG convention in Long Beach is Robert D. Francis, Professor at California State University at Long Beach. Dr. Francis presented the poster entitled *Segmentation in the Palos Verdes Fault, San Pedro Bay and Detachment Attenuation within the Inner Continental Borderland, Offshore Southern California*. The paper was co-authored by Mark Legg of Legg Geophysical and Don Hallinger of Cerritos College.





### Pacific Section AAPG Distinguished Educator Award: Raymond V. Ingersoll

The Distinguished Educator Award is given by the Pacific Section AAPG in recognition of distinguished and outstanding contributions to geological education and counseling of students. This year, we are proud to honor Raymond V. Ingersoll, Professor of Geology at the University of California at Los Angeles.

Following undergraduate work at Harvard, Ray taught science and math at the Putney School in Vermont, where he learned the essentials of excellent teaching. His graduate work at Stanford under the guidance of Bill Dickinson was followed by faculty positions at the University of New Mexico and the University of California at Los Angeles.



An educator is evaluated by many measures, the simplest being numeric. By this criterion alone, Ray Ingersoll has made an extraordinary contribution to education. He has touched the lives of thousands of students at UNM and UCLA by teaching a broad spectrum of courses ranging from introductory geology to specialist graduate courses. Importantly, he is one of a dwindling number of geologists who keeps alive the vital tradition of teaching geology in the field.

While it is difficult to know in detail how Ray affected the myriad of undergraduate students he has taught, we do know that he profoundly influenced 33 graduate students who have been his advisees. The successful graduate advisor not only teaches, but also is an inspiration and a role model. A professor does not become a role model as an objective; rather, it happens if the professor actively cares about and is engaged with his/her students. Ray clearly cares deeply about his advisees, and although numbers are significant, ultimately this quality is the real measure of an educator. One assay of Ray's effectiveness as a role model lies in the fact that six of his advisees have emulated him by assuming faculty positions. Another allied metric is impact on the earth sciences by training the next generation of professionals, and Ray has contributed mightily, with former graduate advisees placed in national laboratories, universities, oil companies, and consultancies.

The reach of an outstanding educator extends far beyond the university. Ray has been heavily involved in working to improve science education in the public schools during the last 15 years, culminating in his present position as Faculty Advisor and Principal Investigator of the California Science Project, headquartered at UCLA, and with 20 sites around the state.

Possibly Ray's greatest impact on the profession results from his 133 publications, nearly five per year, over his career to date. Many are seminal contributions. The numbers alone are impressive and enviable, but his real educational contribution lies in the 30-year record of dissemination of data and ideas to the larger geologic community.

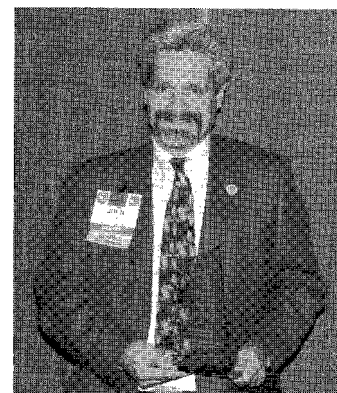
In summary, Raymond V. Ingersoll is a truly outstanding educator by all measures, and is very richly deserving of the Pacific Section AAPG's Distinguished Educator Award.

—Steve Graham

### Special Recognition: John Howe

Organizing one of Pacific Section's annual conventions is no small task. By every account the annual meeting held last May in Bakersfield was very successful. From the excellent technical program to the exhibitors and the social gatherings, everything seemed to come off without a hitch. The success of the convention is a tribute to the hard work of convention chairman John Howe and his excellent committee that seemed to handle all the details. In recognition of his leadership and hard work that led to a great 2004 convention, Pacific Section AAPG is pleased to present a special token of thanks for a job well done to the 2004 Pacific Section Convention Chairman, John Howe.

-- Allen Waggoner



## Member News: 2004 Awards



### Pacific Section AAPG Distinguished Service Award: Dale Sakaye Kunitomi

The Distinguished Service Award is presented to members who have distinguished themselves in singular and beneficial long-term service to the Pacific Section AAPG.

Dale S. Kunitomi has been chosen to be a recipient of the Distinguished Service Award presented by the Pacific Section AAPG in recognition of his contribution to and involvement with the western United States geological community. Dale was born in Heart Mountain, Wyoming, moving to Los Angeles as a child. Planning to be a teacher, he attended Los Angeles City College, but got side-tracked in the same place many of us did, his first physical geology class. He took additional lower-division geology classes before transferring as a geology major to UCLA during the time John Wooden was coaching the Bruins, graduating in 1967. While at UCLA, Dale and his wife Grace were married and began their family.



Following graduation, he joined the City of Long Beach Department of Oil Properties in 1967 as an associate petroleum engineer when the eastern extension of the one-billion-barrel Wilmington oil field had just begun. He supervised field subsidence logging operations as well as interpreting surface and subsurface subsidence surveys. With this great experience, Dale moved to the Southern California Gas Company in 1974, where he evaluated gas reserves and farm-in opportunities in the Santa Barbara Channel, Sacramento Valley, and Cook Inlet, Alaska. From 1971 to 1976, Dale also attended night school at USC, taking graduate courses.

In 1979, Dale left the L.A. basin, moved to Ventura County, and joined Pauley Petroleum in Montecito, where he continued his studies of the Santa Barbara Channel, as well as of southeast New Mexico, Louisiana, and Colorado. When Pauley's fortunes waned due to their inability to develop their discovery leases in the Channel, he moved to Argo Petroleum in Ventura in 1981, working in the Ventura, San Joaquin, Sacramento, and Santa Maria basins. In 1984, Dale switched over to a newcomer to California, Celeron Oil and Gas Company, working with Jack Cunningham, a man Dale calls "the most innovative geologist" he has known. During his four years there, he was involved with the South Belridge and Midway-Sunset oil fields and Molino gas field, evaluating existing and new well locations.

At this point, Dale put his extensive experience to use and hung out his Geologic Consultant shingle. He has participated in geotechnical and hydro-geologic investigations and in all phases of oil and gas field exploration and development, including 3-D geologic modeling of oilfields, fractured reservoir analysis, and supervision and quality control of well logging and coring operations, as well as water well planning and development. His clients have included the City of Long Beach, Epoch Well Information, Exxon, Samedan Oil Corp., Southern California Gas Company, and THUMS of Long Beach.

While in Long Beach, Dale was Vice President of the Los Angeles Basin Geological Society in 1976 and he was President of the Coast Geological Society in Ventura in 1994. He was also the Site Chairman for the two Pacific Section AAPG conventions held in Ventura in the 1990s and was Vice President of the Pacific Section AAPG in 1999. He has also contributed to or edited four Pacific Section publications or guidebooks, as well as presented technical papers to the Pacific Section Convention and to the Coast Geological Society.

When he can get away, Dale and Grace enjoy deep-sea fishing from their small Boston Whaler and from charter boats. They also enjoy travel to foreign lands that have included China, Kenya, Kamchatka, Alaska, Canada, and Mexico, to name a few. Everywhere he goes, Dale contributes to the geological discussion and, in that way, has continued what he started to do, teach us all.

—Muriel Norton



### **Pacific Section AAPG Distinguished Service Award: Kay L. Pitts**

The Distinguished Service Award is presented to members who have distinguished themselves in singular and beneficial long-term service to the Pacific Section AAPG.

Kay Pitts has been an integral part of the Pacific Section for over 20 years. The breadth of her involvement over the years has touched nearly every facet of the Pacific Section AAPG operation. Her husband, Brian, who also has a geology degree and has spent time in the oil patch, is a volunteer for various community programs and so empathizes with Kay's extensive involvement in AAPG and other community activities.



Kay was born in Dearborn, Michigan. She decided geology was her thing after taking a field biology class in high school and finding the geology more interesting than the biology. Kay loves math and contemplated being a math major. Science and nature won out, and she got her B.A. in Earth Sciences at California State University at Fullerton. She followed that up with a M.S. in Geological Sciences at the University of Southern California. Kay met her husband while they were undergraduates in Fullerton taking one of Professor John Cooper's stratigraphy classes. They were married in 1981.

Her professional career began in 1980 with the Getty Oil Company in Bakersfield evaluating, developing, and drilling properties in the San Joaquin and Sacramento basins. In 1984, when Texaco purchased Getty, Kay was involved in merging the geological and geophysical databases of the two companies for the San Joaquin and Sacramento basins. Kay spent the next couple of years directing exploration efforts for Texaco in the Nevada/Utah area. In 1987, Kay joined Bechtel Petroleum Operations, Inc., which was operating the Elk Hills Naval Petroleum Reserve #1 for the U.S. Department of Energy. When Kay first arrived at Elk Hills, she updated and organized a geologic computer support system involving the hardware, software, and databases. She went on to lead a multidisciplinary team that was responsible for all of the geology and engineering databases and computing systems, graphics, drafting, and technological planning. Following the dissolution of BPOI with the sale of DOE's part of Elk Hills to Occidental Petroleum in 1997, Kay moved on to Aera Energy LLC, where she works today as a Project Manager in the Information Management and Technology Department.

Kay's involvement in AAPG over the years includes holding office in the San Joaquin Geological Society as Secretary. She was the Pacific Section's Secretary and Vice President and, in 1999, was elected to be President. She is the second woman in 79 years to be elected to this position. This year, she is running for Treasurer of AAPG. Kay has provided some of her most beneficial service to the Pacific Section by being the co-Chair of the Pacific Section Convention Committee and by acting as the Financial Chair for the 1997, 2000, 2001, and 2004 Annual Conventions. AAPG recognized her abilities and recruited her to serve on the AAPG Budget Committee and Insurance Committee. They saw that she has a tendency to watch the bottom line and make sure the rest of us toe it. She really enjoys looking at spreadsheets and keeping track of trends and budgets.

Kay's interest in her community is also impressive. She is on the Kern County Planning Commission and was the Chair in 2003. In Bakersfield, we occasionally get to watch her on television while channel surfing on Thursday nights as she provides leadership to this panel of five commissioners. She has also been active in Rotary, United Way, the Leadership Bakersfield Advisory Council, Couples against Cancer, Vision 2020, American Association of University Women, and the Kern County Museum Oil Exhibit Committee. Kay seeks out opportunities to get involved in projects that interest her, and she is sought out by those who know her reputation for diligence and thoroughness to any project she takes on. Kay wastes very little time. She likes to identify a problem, sort it out, and get it solved.

The Pacific Section AAPG appreciates Kay's involvement in its activities on its own merit, but recognizes that her community service activities compete for her time, thus making us even more appreciative that she provides the amount and quality of service to AAPG that she does. Her husband says that volunteering for things is part of her wiring. She is a woman of many talents, and the Pacific Section is fortunate to have Kay as a very active contributor to its continuing success as a source of technical, professional, and networking information. She is most deserving of its Distinguished Service Award.

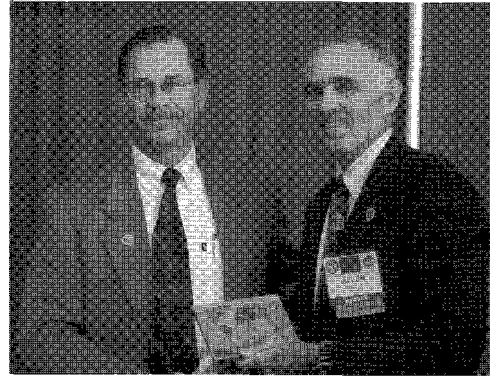
—Larry C. Knauer



### Pacific Section AAPG Distinguished Service Award: Terry W. Thompson

The Distinguished Service Award is presented to members who have distinguished themselves in singular and beneficial long-term service to the Pacific Section AAPG.

Terry has had a long and distinguished career as a petroleum geologist in California. The Pacific Section AAPG, the San Joaquin Geological Society, and, in a broader sense, the oil business have been fortunate recipients of his expertise, hard work, and enthusiasm. He is most deserving to be honored as one of the first recipients of the Pacific Section AAPG Distinguished Service Award.



Although born in Pittsburgh, Pennsylvania, Terry is about as native a Californian as is possible. His family moved to the San Fernando Valley when he was just 5 weeks old. He grew up in that valley and pursued his university studies at California State University, Northridge. He graduated with a B.S. in Geology in 1980. After Northridge, Terry attended graduate school at the University of California, Santa Barbara. Despite academic success, Terry was apparently unable to meet any girls at UCSB and, in the summer of 1981, he packed his bags and his 4.0 GPA and moved to Bakersfield. This move was also influenced by a generous offer of employment from Getty Oil. This turned out to be fortunate for those of us who have known and worked with him, and for Terry as well.

That first job with Getty Oil and the mentoring by such distinguished San Joaquin geoscientists as Leon Earnest, Tony Reid, and Geoff Nicholson have led to a long and distinguished career with Getty Oil, Texaco, Bechtel Petroleum Operations, and ChevronTexaco. Being a young geologist in Bakersfield with money in his pockets during an oil boom ultimately led to what Terry will forever proclaim as the highlight of his life, meeting and marrying another young geologist, Donna Hrabik. Donna was working for Gulf Oil at the time and, except for a chance meeting at a luncheon at the National AAPG meeting in 1983, the Donna and Terry geological juggernaut might have never happened. Luckily it did, and today Terry and Donna have the accomplishments of their 14-year-old son Gregory and their 18-year-old daughter Jennifer to brag about.

Terry's professional accomplishments are in part distinguished for their variety. He has worked on thermal projects throughout the valley, including the world-class Kern River steam drive project. While at Elk Hills, he managed to drill 20 horizontal wells in the 26R light oil reservoir, which is probably the most successful horizontal project ever conducted in California. His current assignment with ChevronTexaco includes supervision of the group that manages the entire technical database for the San Joaquin Valley Business Unit.

Terry has been active in local geologic society affairs for more than a dozen years. He was Secretary of the San Joaquin Geological Society in 1992–1993 and the President of that society in 1994–1995. He then moved to the Pacific Section, where he was Secretary in 1996–1997, Vice President in 1997–1998, and President in 1999–2000. Terry has been involved in many of the local conventions and has served on several of the Pacific Section AAPG committees. He recently stepped in and took over the Pacific Section AAPG Membership Chairmanship when the previous Chair was transferred out of state.

To those of us fortunate enough to know Terry personally, his dedication to church and family are as remarkable as his professional accomplishments. He has been a reader at Saint Philip the Apostle Church on Stockdale Highway for years, and few are as dedicated to their children and parents as both Donna and Terry have been.

The Pacific Section AAPG is pleased to extend the Distinguished Service Award to Terry W. Thompson in honor of his professional achievements and for all he has done for the Section. We could not be more pleased than to see this award go to a very worthy recipient and a good friend.

—Mark Wilson



## Pacific Section AAPG Honorary Life Membership Award: Allen W. Britton

Honorary life membership is the Pacific Section AAPG's highest honor. It is bestowed upon members who have distinguished themselves in their contributions to the science and profession of geology and by outstanding service to the Pacific Section.

Allen was born in Fresno, California and grew up with a true appreciation for the nearby Sierra Nevada with its endless trails and vistas. He graduated from high school with the intent of studying civil engineering and was doing so at Fresno City College (Allen pointed out that the tuition there at the time was quite a bargain at \$10 per semester), when he took a required course in introductory geology and got hooked. He changed his major to geology, gave up an engineering scholarship to USC (smart move), and transferred to the New Mexico Institute of Mining and Technology, with a student population of about 1000 in the sleepy little town of Socorro. And so Allen became a Miner rather than a Trojan.



In 1978, with his B.S. degree in geology in one hand and a new wife in the other, Allen began his professional career with Kerr McGee in Grants, New Mexico, as a Grade Control Geologist at their Section 30 Uranium Mine at Ambrosia Lake. Three Mile Island prompted Allen to consider an alternative career path. In 1980, he took a job with Core Laboratories in Bakersfield as a Core Analyst. The years flew by with the birth of Kristin in 1981 and Sarah in 1986. Allen stayed with Core Lab in Bakersfield and held positions of increasing responsibility, finally becoming the West Coast Regional Manager, which (despite the title) included not only Alaska and California, but also the Texas Gulf Coast and Louisiana. In 2001, Allen married again, and he and his new wife Carmen are living happily ever after. 2003 brought a job transfer to Houston to develop worldwide business opportunities for Core Lab's digital data management services. The job comes with an impressive title, "Business Development Manager for RIB/RAPID, Integrated Reservoir Solutions"... whew!

Allen began his active involvement in AAPG in 1994. For the next ten years, he was a dynamo of activity for the Pacific Section. He was elected to the first of two offices he held for the San Joaquin Geological Society in 1994. Allen was asked to take over the Newsletter Editor position in 1996 and was assured that he would only be needed for a year and then we would find someone else (we lied). He did such a good job that we conveniently were unable to find a replacement for three-and-a-half years. When we asked him to run for President, he leveraged that into leaving the Editor position. He was President for the Pacific Section AAPG in 2001-2002. He was the Membership Chair for two years, giving it up only when he found out he was moving to Houston. Concurrent with this activity, Allen worked the five annual conventions from 1999 to 2003, handling the assembling of the Announcement, Program with Abstracts, and the Membership Directory for four of the five meetings. While he was doing all of this, he found time to spend many hours editing and laying out the digital files needed to print two new books: "The Geologic Transition, High Plateau to Great Basin—A Symposium and Field Guide" (The Mackin Volume), 2001, M. Erskine et. al (eds.); and "Stratigraphic Architecture of a Sand-Rich, Deep-Sea Depositional System: The Stevens Sandstone, San Joaquin Basin, California", 2003, M. A. Lamb, K. S. Kai, and S. A. Graham (eds.).

The last ten years have been very productive for the Pacific Section, and Allen was a huge part of that. Allen joins a noteworthy group of former Pacific Section AAPG workhorses in Houston, such as Tony Reid, Rusty Riese, and Bob Menzie. We will miss his leadership and particularly his can-do attitude. The Pacific Section AAPG is pleased to extend our highest award, Honorary Life Membership, in honor of his professional achievements and for all he has done for the Section. We could not be more pleased than to see this award go to a very worthy recipient, our friend, Allen Britton.

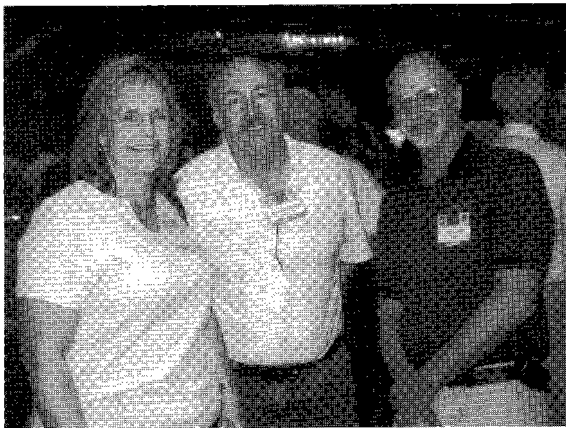
—Larry Knauer & Mark Wilson



L-R: Kay Pitts (Aera Energy) and John Lorenz (outgoing editor for the AAPG Bulletin).



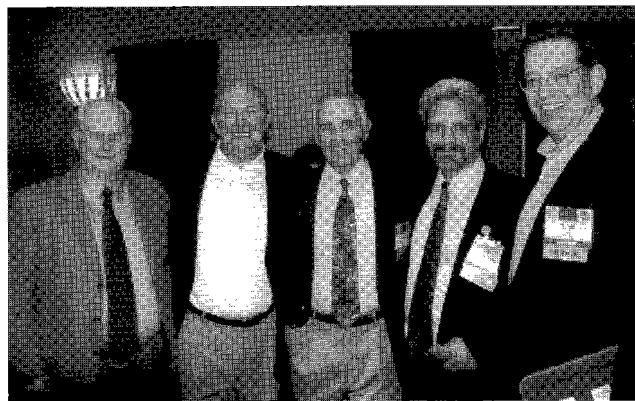
L-R: Pat Gratton, President of the AAPG 2004-2005, Tom Hopps, Past President of the PSAAPG



L-R: Janet McAlee & Neal Livingston (Plains E&P), Les Collins (Epoch Well Logging).



L-R: Steve Graham (Stanford University) and Tony Reid (Occidental Petroleum).



L-R: Ernie Burroughs (Geolog), Curtis Conway (PacSeis), Allen Waggoner (WZI & President of the PSAAPG), John Howe (Archer-Longbow & General Chair of the 2004 Convention) and Tom Hopps (Rancho Energy Consultants) enjoying the 2004 PSAAPG/SEPM/SEG annual meeting in Bakersfield, CA.

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Membership dues (including subscription) are \$12 per year. Membership inquiries and change of address should be directed to the Membership Chair.

Articles, news about members and events, and other items of interest to our members are encouraged and should be sent to the Editor. Geological articles should be sent to the Geological Coordinator.

Memorial notices, articles, and photographs should be sent to the Editor. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to our members are encouraged to share their views and ideas by sending letters to the Editor. All letters will be shared with the Executive Committee, and those with relevant and timely content will be published in the newsletter; letters may be condensed to accommodate newsletter space constraints.

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the November & December 2004 issue is October 7, 2004.**

The newsletter is accessible at www.psaapg.org. Member access is by password, and nonmember access to an excerpt is unrestricted.

*July & August 2004 was not published*

*September & October 2004 password: database*

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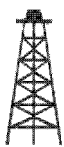


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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

November & December • 2004

## Message from the President: *Advocacy or Seeking The Truth - What's a Geologist to Do?*

I am writing this on the eve of the November 2 elections, and by the time you read this I sincerely hope all the electoral contests have been settled fairly and completely. This season of election-year debates and political advertising has prompted me to reflect on the difference between advocacy, which drives the political process and objectivity, which drives our scientific process. Our political process is one driven by advocacy, which is defined as "active support of a cause, idea or policy". The desired outcome of advocacy is to win: to win an argument, to win a legal case, or to win an election. Advocacy was well demonstrated during the recent presidential debates, where the candidates' focus was on winning votes. Trying to win votes during the debates was seen by some however, as occurring at the expense of the truth. Non-partisan analysts reported how both candidates used partial or distorted facts to make some of their points. (The website factcheck.org is one source of this reporting). Such is the nature of debate, and so long as we understand that we are witnessing is advocacy, we can maintain a clear view of events. This is not to say that advocacy in itself is wrong. On the contrary, advocacy is a right we all enjoy as citizens of this great republic. We have only to look at places like North Korea or pre-war Iraq to recognize how blessed we are to live in a country where the government guarantees our right to express our opinions freely.

As citizens, and participants in the democratic process then, we have the right, and sometimes duty to be advocates. As scientists, however we have a responsibility to be objective. Objectivity is defined as "the state of being uninfluenced by emotion, surmise or personal prejudice".

As scientists, we strive to discover truth about the natural world by an objective analysis of the facts. While operating in our role as scientists we must avoid advocacy. This means that our scientific judgments and opinions must be made objectively, free of personal prejudice.

It is where matters of public policy and science intersect where we need to be most vigilant about avoiding advocacy and pursuing objectivity. Issues like global climate change, offshore drilling and sustainable development are ones where business and government decisions and actions can affect our livelihood as geologists. Here is where the greatest danger of our scientific view being colored by our own self-interests exists. And it is here where we as scientists must maintain an unwavering commitment to the truth. There are certainly times when there may not be enough data to know the truth about a scientific matter. In these cases especially, we must avoid invoking the name of science to bolster what is actually an opinion driven by self-interest. As it is written "You shall know the truth and the truth shall make you free". While these words were written in a spiritual context, they apply equally to our material lives - a commitment to the truth benefits our society and makes us better people.

Steve Sanford  
President, Pacific Section AAPG

### — IN THIS ISSUE —

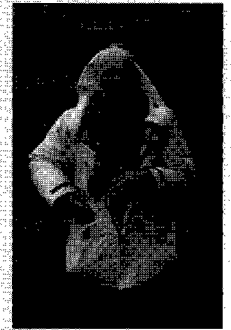
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1926 - 2004

Don Richter, 78, passed away October 8, 2004 at his home in Anchorage.

Especially at home in the mountains, Don loved the out of doors. His thirst for learning about the natural world was unquenchable and he loved to share that knowledge. Don was a remarkable field geologist whose Alaskan activities, primarily with the USGS, began in 1963 and continued for over 40 years to the present.



Although Don was widely known as "Mr. Wrangells" for his work on the Wrangell volcanic pile, his many publications range from reports on: mineralization in the Slana district in 1965; a 1971 seminal paper on Quaternary faulting in east central Alaska in which the Totschunda Fault was defined; the geology and mineral resources of the Nabesna area in the late 1970's and 1980's, and the many geologic maps of volcanic centers in the Wrangell Mountains in the 1990's, including, more recently, popular accounts of the geology of the Wrangell Mountains.

Don spearheaded the initial USGS's AMRAP program in east central Alaska enabling the entire program to get off to a flying start. His participation in the fledgling Alaska Volcano Observatory's response to the 1989-90 eruption of Redoubt volcano was pivotal to its success. Don was still producing geologic maps and reports on the volcanology of the Wrangell - St. Elias National Park at the time of his untimely death.

The Richter Family has set up a Scholarship fund for graduate students studying geology in Alaska, as a continuing legacy to Don's interest and enthusiasm for Alaskan geology. Contributions by check to the scholarship fund should be made to the Alaska Geological Society, with "Don Richter Scholarship Fund" on the memo line.

Thomas Wilson Dibblee, Jr. passed away in his sleep at 4:15 November 17, 2004, at his residence in Santa Barbara. Tom created a true California legacy with over 70 years of active geologic mapping. Tom mapped more than one fourth of the state of California. His knowledge of regional stratigraphy, structure, and paleontology were basic to understanding much of California's geology.



Contributions in memory of Tom may be sent to the Santa Barbara Museum of Natural History Thomas W. Dibblee Geology Center, 2559 Puesta del Sol Road, Santa Barbara, CA 93105

A profile of Tom's life will appear in the next issue of the PPG Newsletter.

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**Alaska Geological Society**  
www.alaskageology.org

P.O. Box 101288  
Anchorage, AK 99510

Contact: Sue Karl  
skar1@usgs.gov



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$17 (members with reservations) or \$20 (members without reservations and nonmembers). The next meeting is scheduled for November 18. For reservations, call the AGS reservation voice mail at 907-646-7106 or contact **Edna Beuhler** at edna.beuhler@encana.com by noon on Monday before the meeting.

**Coast Geological Society**  
www.coastgeologicalsociety.org

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Moors  
805.650.7000

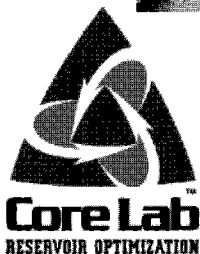
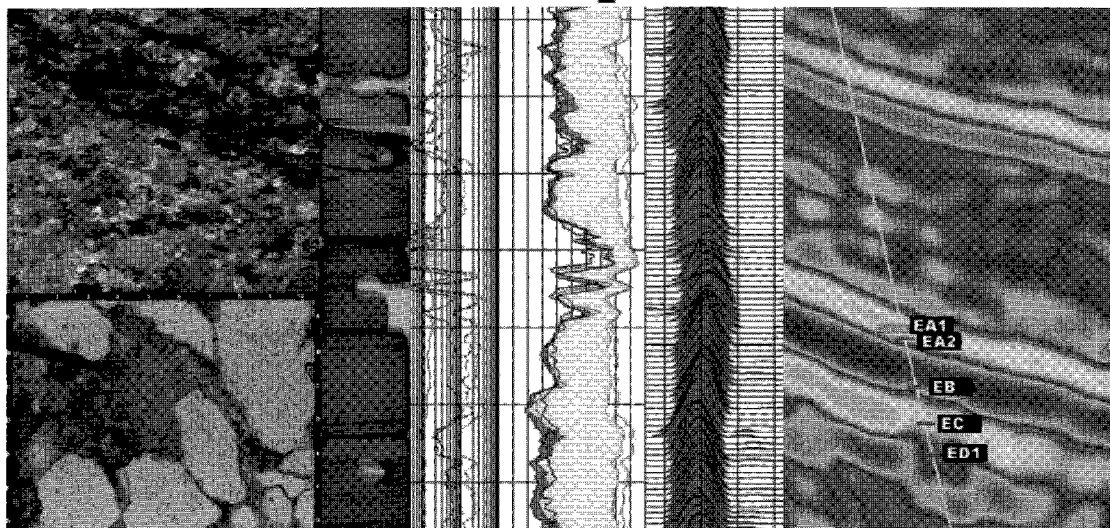


Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner is \$15 (with reservations), \$18 (without reservations), or \$8 (students and K-12 teachers); the talk is free. The next meeting is scheduled for November 16. For reservations, contact **Dave Brown** at 805.653.7975 or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.



On Friday October 8th, 2004, CGS hosted nearly 100 "golfers" at the 6th Annual John J. Woolley Memorial Golf Tournament at Elkins Ranch Golf Course. The annual tournament and BBQ is sponsored by CGS and Venoco, Inc. to raise funds for Student Scholarships and Teacher's Awards through CGS's John J. Woolley Scholarship Fund.

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www.corelab.com

**Los Angeles Basin Geological Society**

www.labgs.org

5640 South Fairfax Avenue  
Los Angeles, CA 90056Contact: Dalton Lockman  
323.298.2242

Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande 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 next meeting is scheduled for November 18, there will be no meeting in December. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at [www.labgs.org](http://www.labgs.org) or by contacting **Ivan Aburto** at [iaburto@breitburn.com](mailto:iaburto@breitburn.com) or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.

**Northern California Geological Society**

www.ncgeolsoc.org

9 Bramblewood Court  
Danville, CA 94506-1130Contact: Mark Detterman  
[mdetterman@blymyer.com](mailto:mdetterman@blymyer.com)

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). The next meeting is scheduled for November 17, there will be no December meeting. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).

**Northwest Energy Association**

www.nwenergyassociation.org

P.O. Box 6679  
Portland, OR 97228-6679Contact: Ron Gullberg  
503-603-6698

Luncheon meetings are held monthly October through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The meeting starts at 1:00 p.m. The next meeting is on November 12th. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.

**Sacramento Petroleum Association**P.O. Box 571  
Sacramento, CA 95812-0571Contact: Rick Blake  
925-422-9910

Luncheon meetings are held monthly January through November, on the third Wednesday of the month at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The meetings starts at noon. The next meeting is on November 17th. The cost is \$16. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110 or [pceccare@consvr.ca.gov](mailto:pceccare@consvr.ca.gov).

The Gas Patch Holiday Party will be held Friday, December 3rd at 6:00PM at the Radisson Hotel. For more information contact Lee Reedy (916.488.5532) or Julie Lynn (916.481.7184).

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ERNIE BURROUGHS  
President/Owner  
Registered Geologist No. 1628



Dinner meetings are held monthly October through June, usually on the second Tuesday of the month, at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for November 9 and December 11. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Rob Fairman** at 661-665-5099 or rpfairman@aeraenergy.com.



The SJGS Annual Golf Tournament and BBQ at the Kern River Golf Course and Kern County Museum will be held September 10th. See the SJGS website for details.

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# Schedule of Events



## November 2004

### November 9 -- SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield  
*Speaker:* Larry Knauer, ChevronTexaco  
*Title:* Kern River Oil Field: A 2004 Update

### November 16 -- CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura  
*Speaker:* Dora Crouch  
*Title:* Geology and Settlement in the Greco-Roman World.

### November 17 -- NCGS Monthly Dinner Meeting

*Location:* Masonic Center, Orinda  
*Speaker:* Wayne Narr, ChevronTexaco  
*Title:* Understanding and Predicting Fractures at Tengiz – A Giant, Naturally Fractured Reservoir in the Caspian Basin of Kazakhstan

*For details, see:* <http://www.ncgeolsoc.org/meetings.htm#Meetings>

### November 17 -- SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento  
*Speaker:* William Daily, Lawrence Livermore National Laboratory  
*Title:* The Yucca Mountain Project for the Nation's Nuclear Waste: Perspective of a Geophysicist.

### November 18 -- AGS Monthly Luncheon

*Location:* Anchorage Hilton Hotel  
*Speaker:* Dave Houseknecht, USGS, Reston, VA  
*Title:* Surficial Geology and Quaternary Evolution of the North Slope Coastal Plain, Northeastern NPRA  
*For details, see:* <http://www.alaskageology.org/>

### November 18 -- LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach  
*Speaker:* Don Clarke, City of Long Beach Oil Properties  
*Title:* Faults and Faulting in the Wilmington Oil Field

## December 2004

### December 11 -- SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield  
*Speaker:* Mike Wracher, Venoco  
*Title:* Rotation of Sub-domains within the Transverse Range Province - Reservoir Implications: Sockeye Field


### December 14 -- CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura  
*Speaker:* Stephen Testa  
*Title:* Early California Geo-Political history (i.e. J.D. Whitney).

### December 3 -- SPA Holiday Gas Patch Party

*Location:* The Radisson Hotel, Sacramento  
*Contact:* Lee Reedy (916.488.5532) or Julie Lynn (916.481.7184)

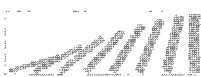
\* no NCGS / LABGS December meeting



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## SHOW YOUR PROSPECT AT NAPE

Ken Hunter is offering free time to local independent geologists to show their prospects in Vaquero Energy's booth at the North American Prospect Expo (NAPE) in Houston. NAPE, founded in 1993, has become a major marketplace and networking event for the upstream oil and gas industry, with 1000 booths and more than 10,000 attendees expected on January 26 and 27, 2005. Prospects listed in the Show Guide and Attendee Directory will be searchable by State, Basin, County, and Primary and Secondary Geologic Objectives. Selected geologists will need to pay for their own registration as a NAPE attendee. In addition to their own prospects and those of independent geologists, Vaquero's "island of booths" will feature the USGS presenting the results of their Assessment of Undiscovered Oil and Gas Resources of the San Joaquin Basin Province of California, 2003, as shown at our Pacific Section Convention in Bakersfield earlier this year. The 2003 Assessment estimates undiscovered recoverable oil and gas reserves in San Joaquin Basin of 1/2 billion barrels of oil and 2 trillion cubic feet of gas. The USGS presentations and display are expected to draw a large audience, which Mr. Hunter hopes will shift attitudes of both buyers and sellers, thus facilitating growth of the California prospect market in years to come. If you wish to be considered for showing your prospect in Vaquero's booth, please contact Don Nelson with Vaquero Energy as soon as possible but no later than December 15th. Don can be reached at 661-363-7240 or [dnelson@vaqueroenergy.com](mailto:dnelson@vaqueroenergy.com).

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## Pyles Boys Camp Summer 2004



Outing to Pyles Boys Camp Summer 2004. Top row left to right: Squeak, Blinder, Caveman, Champ, Crash & Hajikoo. Bottom Row Left to right: Dark, David Arias, Paul Hacker & Chiclet.

Pyles Camp works with deserving, disadvantaged at-risk boys who are recommended by social service or law enforcement agencies and other youth organizations before they get into serious trouble.



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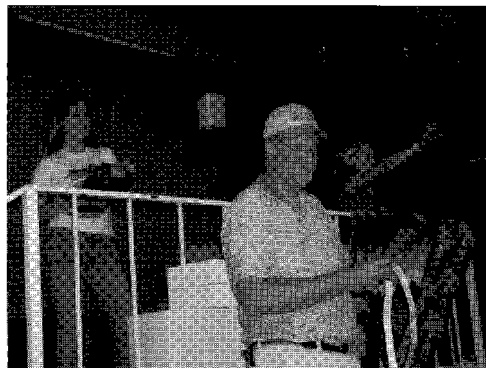
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## JOHN WOOLLEY MEMORIAL GOLF TOURNAMENT



Old Friends of John Woolley - L-R: Steve Kovacevich, Rick Johnson, Eric Peterson, Charlie Gibson



Past CGS President - Phil Kinney Rattle Girls: Emma Scott, Kate Woolley



Michael Barminski Jr., Muriel Norton, Mike Barminski



Secor Team: Randy Couture, Chris Laber, John Bollier, Gareth Roberts

On Friday October 8th, 2004, CGS hosted nearly 100 "golfers" at the 6th Annual John J. Woolley Memorial Golf Tournament at Elkins Ranch Golf Course. The annual tournament and BBQ is sponsored by CGS and Venoco, Inc. to raise funds for Student Scholarships and Teacher's Awards through CGS's John J. Woolley Scholarship Fund.

This was a very successful tournament with almost 100 golfers and included Hole Sponsorships and Donations from area companies, CGS members, as well as, friends and family of the Woolleys. Player awards and a raffle of prizes were presented followed a delicious tri-tip and chicken BBQ Dinner. For details, see the CGS web site at [www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org).





## JOINT MEETING

101<sup>st</sup> Annual Meeting of the Cordilleran Section, GSA, and  
80th Annual Meeting of the Pacific Sections, AAPG/SEPM/SEG  
Fairmont Hotel, San José, California  
April 29 – May 1, 2005

The 2005 annual meetings of the Cordilleran Section, Geological Society of America and the Pacific Section, American Association of Petroleum Geologists, will be held jointly at the Fairmont Hotel in San José, hosted by the Department of Geology, San José State University. Up-to-date information about the meeting can be found at <http://www.geosociety.org/sectdiv/cord/05cdmtg.htm>

## CALL FOR PAPERS

Papers are invited for a variety of topical sessions (oral and poster), including symposia, theme sessions, and general technical sessions. Authors interested in volunteering papers for symposia should contact the appropriate convener prior to submitting an abstract. Oral presentations in technical sessions will be 15 minutes in length, including three minutes for questions.

## ABSTRACTS

**Abstract deadline: February 1, 2005**

Abstracts for all sessions should be submitted online at <http://www.geosociety.org/sectdiv/cord/05cdmtg.htm>

## REGISTRATION

**Preregistration deadline: March 25, 2005**

Preregister to qualify for lower fees. Please register online at <http://www.geosociety.org/sectdiv/cord/05cdmtg.htm>

## FIELD TRIPS

For further details on field trips, please visit <http://www.geosociety.org/sectdiv/cord/05cdmtg.htm>

## PREMEETING

1. Seismic Hazard of the Front Range Thrust Faults, Santa Cruz Mountains.
2. Neoproterozoic Paleogeography of Southern Death Valley: Adding Some New Pieces to an Old Puzzle.
3. Point Lobos to Point Reyes: Evidence of ~180 km Offset of the San Gregorio and northern San Andreas Faults.
4. Jurassic - Cretaceous Assembly of Central California.
5. Geology of Mount Diablo.
6. An Extensive Paleocene Cold Seep System: Clastic Dikes, Carbonates, and Chemosynthetic Communities in the Moreno Formation, Panoche Hills, Western San Joaquin Valley.
7. The Dirt on Wine, Geology, Soils, and Wine Quality in the Santa Clara Valley.

## POSTMEETING

8. Microbialite Sediments in Death Valley.
9. Miocene Volcano-Plutonic Systems, Southern Nevada: A Window into Upper Crustal Magmatic Processes.
10. Late Neogene Transition from Transform to Subduction Margin East of the San Andreas Fault in Wine Country of the northern San Francisco Bay Area.
11. Large Dextral Offset Across Owens Valley, California, from 148 Ma to 1872 A.D.
12. Outcrop Geology of Some Cretaceous and Tertiary Gas-Producing Strata of the Sacramento Basin.
13. The Miocene Hydrocarbon Migration System: Clastic Intrusions and Carbonate Seep Structures in the Santa Cruz Area, California.
14. San Francisco Bay: Floating Classroom on an Urban Estuary.
15. Franciscan Complex and Coast Range Ophiolite, Eastern San Francisco Bay Area: A Record of Processes Along a Complex Active Plate Margin.



## SYMPOSIA

1. Alaskan Energy Resources: New Assessments and Related Geological, Geophysical, and Geochemical Studies.
2. Tectonics of the U.S. Cordillera, SWEAT Connection and Beyond – a Symposium in Honor of Eldridge Moores. *Sponsored by GSA Cordilleran Section.*
3. Crowding the Rim – Dealing with Energy Needs, Food, and Other Living Resources and Natural Calamities Around the Pacific. *Sponsored by the Circum Pacific Council.*
4. Ophiolites, Batholiths, and Regional Geology: a Symposium in honor of Cliff Hopson;
5. Plutons and their Host Rocks in the Sierra Nevada Batholith: a Forum and Discussion on Magma Emplacement, Magmatic Differentiation, and Pluton Solidification.

## TECHNICAL SESSIONS

In addition to general technical sessions, the program will include a variety of symposia and theme sessions. Detailed description of symposia and theme sessions can be found at <http://www.geosociety.org/sectdiv/cord05cdmtg.htm>

## THEME SESSIONS

### CORDILLERAN SECTION, GSA:

1. Provenance of Sediments and Sedimentary Rocks in the Cordillera.
2. Late Cenozoic Transition from Subduction to Transform Margin Inboard of the San Andreas Fault: Northern San Francisco Bay Area to Cape Mendocino.

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3. Earthquakes, Past and Future, in the San Francisco Bay Region.
4. Transpressional Neotectonics of the Central and Northern California Coast Ranges.
5. Crustal cross sections from the western North America Cordillera and Elsewhere—Implications for Tectonic and Petrologic Processes.
6. Hydrogeology of Alluvial Aquifers in the Western U.S.
7. Recent Advances in the Science of Floodplain and Channel Processes and Restoration.
8. Naturally Occurring Asbestos Hazards: Geology, Regulatory Issues, and Methods of Identification and Assessment.
9. Ethics in the Geological Community.
10. Earth Science for Everyone: Diverse Student Populations: Recruiting Techniques for Attracting Them, Curricular and Extracurricular Strategies for Retaining Them.
11. Undergraduate Research Posters.

### PACIFIC SECTION, AAPG:

1. Sacramento Valley Gas Exploration and Production.
2. Application of New Technologies to Petroleum Reservoirs: A. Implications for Exploration. B. Implications for Production.
3. CO<sub>2</sub> Sequestration: Science and Opportunity in the West.
4. A New Three-Dimensional Look at the Geology, Geophysics, and Hydrology of the Santa Clara Valley, California: A Showcase of Urban Earth Science.
5. Data Visualization, 3D Mapping, and Property Modeling
6. Ground Water and Surface Water Interactions: Hydrogeology and Water Quality in the San Francisco Bay Region.



## PACIFIC SECTION, SEPM:

1. Estimating Recharge.
2. Sediment Delivery to Streams: Mechanisms, Volumes and Timing.
3. The Hydrobiogeochemical Cycle of Mercury.
4. Tectonics and Sedimentation: New Models and Recent Advances.
5. Beds to Basins in Turbidite Systems.
6. Volcaniclastic Strata: Process, Paleogeography and Tectonic Reconstructions.
7. Fault-Related Diagenesis and Fluid Flow

## WORKSHOPS

Roy J. Shlemon Mentor Program in Applied Geoscience. *Sponsored by GSA Foundation.*  
The John Mann Mentors in Applied Hydrogeology Program. *Sponsored by GSA Foundation.*

## EXHIBITS

Exhibit booths will be available for commercial organizations and nonprofit organizations. For more information or to reserve a booth, contact Larry Knauer, (661) 392-2471, [larryknauer@chevrontexaco.com](mailto:larryknauer@chevrontexaco.com).

## SHORT COURSES

1. Groundwater Age-Dating: Application and Interpretation of Tritium and the Noble Gases for Water Resource Investigations.
2. Application of Sequence Stratigraphy to Define the Aquifer Architecture of Groundwater Resources.
3. Quantitative P-T-t Paths from Integrated Thermodynamic Modeling, Geochronology, and Metamorphic Textures.
4. Half-day Bay Area Earth Science Institute (BAESI) Teacher Workshop.

## SPECIAL EVENTS

**Icebreaker:** Thursday, April 28, Exhibit Hall, Fairmont Hotel, 5-9 p.m.

**Keynote Address:** *Seismic Developments since the 1906 Earthquake*, Mary Lou Zoback, U.S. Geological Survey, [zoback@usgs.gov](mailto:zoback@usgs.gov), Saturday, April 30, 5 p.m., Fairmont Hotel

**An evening of exploration - geology and wine**, hosted by David Howell, U.S. Geological Survey, [dhowell@usgs.gov](mailto:dhowell@usgs.gov); Jonathan Swinchatt, authors of: *The Winemakers Dance, Exploring Terroir in the Napa Valley*. Saturday, April 30, 6:30 p.m.

**Annual Business Meeting**, Cordilleran Section, GSA. TBA

**Annual Banquet**, Pacific Section, AAPG, Friday, April 29, 11:30-1:30 p.m.

**Business Meeting**, Pacific Section, AAPG, Sunday, May 1, 5 p.m.

## STUDENT TRAVEL AND AWARDS

The Cordilleran Section, GSA, and the GSA Foundation have made travel grants available for students who are presenting oral or poster papers. Awards will be given for best student oral (undergraduate or graduate) and poster (undergraduate only) presentations.

## ADDITIONAL INFORMATION

To obtain the most complete and up-to-date information, visit <http://www.geosociety.org/sectdiv/cord05cdmtg.htm>

If you have additional questions or need further clarification, contact either of the convention co-chairs:

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Membership dues (including subscription) are \$12 per year. Membership inquiries and change of address should be directed to the Membership Chair.

Articles, news about members and events, and other items of interest to our members are encouraged and should be sent to the Editor. Geological articles should be sent to the Geological Coordinator.

Memorial notices, articles, and photographs should be sent to the Editor. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to our members are encouraged to share their views and ideas by sending letters to the Editor. All letters will be shared with the Executive Committee, and those with relevant and timely content will be published in the newsletter; letters may be condensed to accommodate newsletter space constraints.

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the January & February 2005 issue is December 15, 2004.**

The newsletter is accessible at [www.psaapg.org](http://www.psaapg.org). Member access is by password, and nonmember access to an excerpt is unrestricted.

*September & October 2004 password: database*  
*November & December 2004 password: diorite*

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