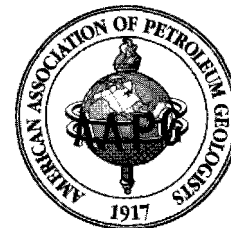


Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

January & February • 2003

MESSAGE FROM THE PRESIDENT: 'Tis the Season

"'Tis the season," as the song goes, "to be jolly!" It's the special season of family and friends, the season of giving and receiving, and the season to reflect on the past year and plan personal improvements for the New Year. On behalf of the Pacific Section Executive Committee, I hope your holiday season was joyful and that you are blessed with a very happy and healthy New Year. And, I would like to thank those who have given the rest of us in Pacific Section so much during the past year—the Executive Committee, standing committees, Foundation committees, local society committees, convention committees, and many persons who have worked quietly and effectively behind the scenes. The efforts of these people make the Pacific Section a leader in AAPG affairs. We all benefit from their service and appreciate their most valuable gift of time.

Mark Wilson, Chairman of the Pacific Section Foundation, recently distributed a letter asking for our support of Pacific Section's Teacher of the Year Award program and other Foundation programs. Please join me in sending a check to the Pacific Section Foundation to make a real statement of appreciation to all our Pacific Section volunteers who have worked so tirelessly throughout the year. 'Tis the season.

Most of us don't get to Portland, Oregon, very often, but their local geological society is alive and well in the form of the Northwest Energy Association. They may be small, but they are an important Pacific Section local society with a lot going on. Read about our northern (southern for all you Alaskanites) colleagues in this month's "Society Spotlight" (page 3). Pay them a visit if you're up (or down) that way on the second Friday of any month, October through May.

Wow!! That word pretty much sums up the joint PS-AAPG & WR-SPE convention to be held May 20-25, 2003, in Long Beach.

The Call for Papers is on the website (www.psaapg.org); the last date to submit an abstract is January 31 (see page 11). Registration packets will be mailed out on March 1. This will be an exciting, high-energy meeting with stimulating technical presentations, motivating social events, and great opportunities for networking. Wow!! Be there!

The latest report from **Allen Britton**, our membership chairman, shows we have 710 members within affiliated local societies, which range in size from 16 to 197 members. No matter where you fit into this group, you are an important member. If some of your colleagues are not members, tell them how the Pacific Section benefits us all through technical presentations and publications, mentoring, data preservation, community outreach and networking, and ask them to join. Also, if you happen to be one of the 157 important members who are delinquent in your dues, please pay up. Allen works hard at this, and it will make him very happy.

Finally, as I commented above and in previous columns about the benefits of belonging to Pacific Section, I would like to leave you with a similar thought about AAPG. In his November 2002 President's Column, AAPG President **Dan Smith** said, "... it is not just the products and services that are the keys to AAPG's success. It is the benefits that are derived by taking advantage of these." These derived benefits are the value to membership in both AAPG and Pacific Section. I encourage you to consider these benefits and to join AAPG, if you are not already a member. Your membership, and mine, works to the benefit of us all on both a personal and national level.

—Tom Hopps, President, Pacific Section AAPG

2003 COMBINED MEETING

PACIFIC SECTION AAPG
& WESTERN REGION SPE

Hilton Hotel
Long Beach, California

Technical Sessions May 21-23, 2003



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Morgan Stanley

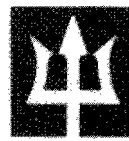
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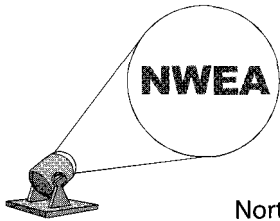
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curtisconway@arrival.net



SOCIETY SPOTLIGHT: Northwest Energy Association

The Northwest Energy Association (NWEA) was founded in 1982 by a group of landmen who were involved in the development of Pacific Northwest energy resources. The Portland-based group was initially named the Northwest Association of Petroleum Landmen. The members soon realized that interest in northwest energy matters was not limited by professional boundaries. The organization was renamed the Northwest Petroleum Association to reflect the inclusion of geologists, geophysicists, and engineers within the membership. Many early members were associated with the discovery and development of the Mist Gas Field in northwest Oregon, and with the search for additional fields.

In 1994, the group was again renamed. Membership had grown to include engineers, scientists, and other professionals working in gas storage, gas pipelines, energy marketing, and geothermal development, as well as the upstream hydrocarbon exploration and development activities. Today the NWEA is one of the few groups in the energy industry in which members attending its meetings will represent both upstream and downstream industry activities.

The NWEA holds a luncheon meeting in Portland on the second Friday of each month from October through May. The group also organizes an annual symposium held in September. This event typically includes a one-day seminar conducted by invited speakers, followed by a one-day field trip.

In addition to its normal activities in 2002, the NWEA organized a session for the GSA Cordilleran Section meeting in Corvallis, Oregon. It was titled "Unraveling the Tertiary stratigraphy and structure of the Pacific Northwest and its implications for hydrocarbon occurrence and underground gas storage: In honor of Alan and Wendy Niem." The session included eleven papers and was attended by approximately 70 people.

The group is presently planning its 2003 Fall Symposium, which will be held in Bend, Oregon.

—Jim Jackson, President, Northwest Energy Association

THE GRAND CANYON OF SOUTH MOUNTAIN — VENTURA COUNTY'S UNKNOWN SCENIC WONDER

An Exhibit Featuring Color Photographs by Terry Collins

The California Oil Museum's new exhibit, "The Grand Canyon of South Mountain—Ventura County's Unknown Scenic Wonder," presents dramatic color photographs by wilderness photographer **Terry Collins**, historic photos, and fascinating geological maps of this little-seen area of Ventura County.

South Mountain is the prominent peak rising to 2300 feet above sea level immediately south of Santa Paula. Rugged canyons incise the north-facing slopes of South Mountain, including the 1000-foot-deep canyon known the "Grand Canyon of South Mountain." In a 1922 account of this area, a traveler said, "So magnificent and inspiring are the views along the roads that lead up the mountainside across the Santa Clara River from Santa Paula that the rare visitor forgets for a moment the meaning and value of oil, overlooks the interesting steps in the progress by which it is won from the depths of the rocks, and thinks only of the magnificent views presented by the centuries of selective erosion. The layers deposited there by century after century of sedimentary construction and then shoved high by some prehistoric disturbance show many beautiful colors, now sharply defined, now blending one into the other. Pink and orange and red and

yellow are the brighter hues and they are interlarded with interstrata of gray and stone."

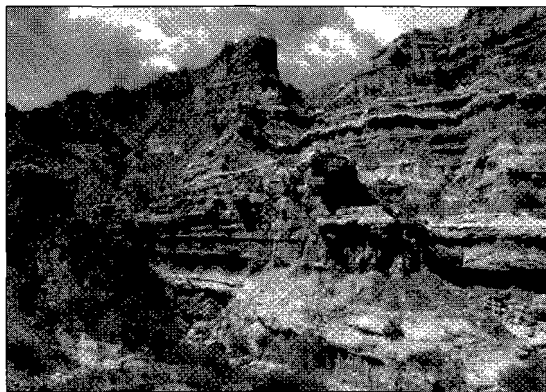
This exhibit features the work of contemporary wilderness photographer Terry Collins. He has been granted special access to

this scenic area by Vintage Petroleum and has produced a group of striking color photographs of this canyon rarely seen by the general public. Terry has recorded scenes to rival those of Arizona's Grand Canyon and Utah's Bryce Canyon, all hidden in a corner of Ventura County just a mile south of Santa Paula.

The exhibit also contains historical photographs of the South Mountain oil field and the workers who developed it. Oil was discovered on South Mountain in 1916 and, within five years, it was the leading oil-producing area in

Ventura County. Many residents of Santa Paula worked in this oil field and have contributed photographs for this exhibit. Local petroleum geologists **Butch Brown** and **Tom Hopps** will present geological interpretations and maps of the "Grand Canyon of South Mountain" to enhance understanding and appreciation of this scenic treasure.

—Mike Nelson, California Oil Museum



The California Oil Museum is located at 1001 East Main Street in Santa Paula, and is open Wednesdays through Sundays from 10 a.m. to 4 p.m. Admission is \$2 for adults, \$1 for children (free for Museum members). The "Grand Canyon" exhibit will be on display through February 16. For more information, contact the Museum at 805-933-0076, info@oilmuseum.net (e-mail), or www.oilmuseum.net (website).

Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$16 (with reservations) or \$20 (without reservations).

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Philip Kinney
805-230-1266 ext. 224



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will be held at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura until further notice (check the CGS website for details). 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 \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. Upcoming meetings are scheduled for January 21 and February 18. Reservations can be made by e-mail to cgs.rsvp@sbcglobal.net, by phone (to Dave Brown) at 805-653-7975, or by fax at 805-653-7452. E-mail reservations are due by 5:00 p.m. on Thursday before the meeting; phone or fax reservations are due by 3:00 p.m. on Friday before the meeting.

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 usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Upcoming meetings are scheduled for January 23 and February 27. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



The LABGS website is up and running! LABGS is finally moving into the digital era. On November 21, 2002, LABGS retired its rock tablet chisels and ignited its website, which may be accessed at **www.labgs.org**. It will be a great place to keep informed about what is going on in the LABGS. The website will not replace the LABGS newsletter, but will provide a place to retrieve past issues. As with all websites, it will continually change to meet the needs of LABGS members and friends.



Ivan Aburto, a geologist with Breitburn Energy, has volunteered to take over as LABGS secretary. This position was left vacant last fall when elected-secretary **Darrin Arthur**, a Marine reservist, was called to active duty.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) 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). Upcoming meetings are scheduled for January 29 and February 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).

Northwest Energy Association
www.nwenergyassociation.org

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

Contact: Jim Jackson
503-771-3887



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. Upcoming meetings are scheduled for January 10 and February 14. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. Upcoming meetings are scheduled for January 15 and February 19. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. SPA is looking for speakers at their monthly meetings; if you are interested, contact **Rick Blake** at 925-422-9910 or blake2@lnl.gov.



SPA membership renewal is coming up, and new members are welcome! Annual dues include SPA's monthly newsletter; dues are \$20 (hardcopy newsletter) or \$15 (e-mail newsletter). A renewal reminder will be sent in the January newsletter, and an updated membership list will be available April 1.



Twenty SPA members went underground on October 19, 2002... on a field trip of the Black Diamond Mine lead by **Ray Sullivan** (San Francisco State University) and his son, **Morgan Sullivan** (California State University, Chico). Participants observed stratigraphic and structural relationships of the middle Eocene Domingine Formation, an important gas-producing reservoir in the Sacramento Valley. The group also visited Black Diamond Mines Regional Preserve and the most complete Tertiary sections in the Coast Ranges.



Dinner meetings are usually held on the second Tuesday of the month (except July through September) 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. Upcoming meetings are scheduled for January 14 and February 11. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.



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Instructor: Karen Blake (Paulsson Geophysical)
Course Meetings: Monday & Wednesday nights, 6:00-9:00 p.m.
February 3, 5, 10, 12, 17, 19, 24 & 26
Location: CSU Bakersfield, Science II Building, Room 278
Cost: \$350
Registration Deadline: January 15, 2003
Maximum Enrollment: 12

Registration

Without University Credit:
Send contact information (phone number and/or e-mail address) and a check (payable to CSUB Foundation-GTTC) for the entire course fee to Jan Gillespie, Department of Geology, California State University, 9001 Stockdale Highway, Bakersfield, CA 93311.

*** With University Credit:**
This course counts as 2 credits of Geology 577 (Instruction in Geotechnology). Students must apply to the University and enroll in Geology 577 in order to receive credit. For more information about the local and cost-effective training offered at the Geotechnology Training Center at California State University, Bakersfield, visit the website at www.cs.csubak.edu/Geology or contact Jan Gillespie at 661-664-3040 or jan@cs.csubak.edu.

CALL FOR ABSTRACTS

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RESOURCES & TECHNOLOGY
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- Abstracts are being accepted for Guidebook papers and the Oral Session.
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- Abstract length: 250 words. Format: Word.
- Abstracts can be e-mailed to the WGA office at: wyogeo@trib.com.

Abstract Deadlines

Guidebook: January 31, 2003
Oral Session: March 31, 2003

2003 General Chairman:
Chris Mullen, Wold Oil Properties

Guidebook Chairwoman:
Martha Horn, Wyoming Oil and Gas Commission
(307) 234-7147, e-mail: mhorn@state.wy.us

Program Chairman:
Mark Milliken, Critique, Inc.
(888) 599-2200 ext. 5162, e-mail: milliken@coffey.com

JANUARY & FEBRUARY 2003

January 10 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR
Speaker: Anne Trehu (Oregon State University)
Title: TBA

January 14 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA
Speaker: Robert Brady (California State University, Bakersfield)
Title:* Geologic Section from the Carrizo Plain to the San Joaquin Valley

January 15* — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA
Speaker: TBA

January 21 — CGS Monthly Dinner Meeting

Location: Veterans of Foreign Wars Hall, Ventura, CA
Speaker: Ed Keller
Title: Fold Propagation of the South Mountain Anticline

January 23 — LABGS Monthly Luncheon Meeting

Location: The Grand at Willow Street Conference Center, Long Beach, CA
Speaker: Mark Legg
Title: New Surprises in the Offshore California Borderland

January 29 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA
Speaker: Kent Lightfoot (University of California, Berkeley)
Title: Archeology of the San Francisco Bay Area

February 11 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA
Speaker: TBA

February 14 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR
Speaker: TBA

February 18 — CGS Monthly Dinner Meeting

Location: Veterans of Foreign Wars Hall, Ventura, CA
Speaker: Jordan Clark
Title: Springs of the Sierra Nevada, California

February 19 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA
Speaker: Roland Bain
Title: Review of Drilling Activity and Highlights in the Sacramento Valley for 2002

February 26 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA
Speaker: Calvin Stevens (San Jose State University)
Title: Geology of the Mount Morrison Roof Pendant, Eastern Sierra Nevada

February 27 — LABGS Monthly Luncheon Meeting

Location: The Grand at Willow Street Conference Center, Long Beach, CA
Speaker: Bjorn Paulsson & Karen Blake (Paulsson Geophysical Services, Inc.)
Title: Imaging the Wilmington Oil Field Structure

UPCOMING EVENTS

- March 11 • SJGS Monthly Dinner Meeting
- March 14 • NWEA Monthly Luncheon Meeting
- March 18* • CGS Monthly Dinner Meeting
- March 19 • SPA Monthly Luncheon Meeting
- March 26 • NCGS Monthly Meeting
- March 27 • LABGS Monthly Luncheon Meeting
- April 8 • SJGS Monthly Dinner Meeting
- April 11 • NWEA Monthly Luncheon Meeting
- April 15* • CGS Monthly Dinner Meeting
- April 16 • SPA Monthly Luncheon Meeting
- April 24 • LABGS Monthly Luncheon Meeting
- April 30 • NCGS Monthly Meeting
- May 11-14 • AAPG Annual Meeting
- May 21-23 • PS-AAPG & WR-SPE Convention

* Tentative



Mark your calendar for the 2003 PS-AAPG & WR-SPE convention!

Hilton Hotel • Long Beach, California

Technical Sessions May 21-23



Get a jump on organizing your 2003 calendar by planning to attend the Pacific Section AAPG annual meeting, which is shaping up to have a good technical program and to give good value for your time and money. Lots of events are planned along with field trips and short courses.

This is a joint conference of petroleum engineers and geoscientists, which should present a stimulating forum for the exchange of ideas and innovations across disciplines. A convention announcement will be mailed in late February. To learn more, access the convention website at www.psaapg.org.

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HONORS & AWARDS — **H.W. Swan** (Phillips Alaska, Inc.) is the winner of the A.I. Levorsen Memorial Award for the best oral presentation at the 2002 Pacific Section Convention in Anchorage: *Robust AVO Processing for Arctic Exploration*. **M. A. Wartes** and **A. R. Carroll** (University of Wisconsin, Madison) are the winners of the H. Victor Church Memorial Award for the best poster presentation at the 2002 Pacific Section Convention in Anchorage: *Detailed Facies Analysis of the Lower Cretaceous Fortress Mountain Formation, Atigun Syncline, Northern Alaska*. The awards will be presented at the 2003 Pacific Section Convention in Long Beach.

CARL ANDERS BENGTSOEN

1916–2002

Carl Anders "Andy" Bengtson died peacefully in Walnut Creek, California, on August 16, 2002, at the age of 86. Andy was a long-time AAPG and Pacific Section member. Born in Chicago in 1916, Andy earned a B.S. from Augustana College and an M.S. from the University of Iowa in 1940.



In 1942, while pursuing doctoral studies at the University of Chicago, Andy enlisted in the Air Force and received a Certificate in Meteorology from the University of Chicago. He then served as a Weather Officer in England throughout the war, rising to the rank of Captain. In 1946, Andy moved to California, taking a job as a geologist with Standard Oil Company of California (Chevron). In 1948, Andy married Edla Johnson; the couple raised two fine boys, Bruce and John, and were the proud grandparents of three granddaughters.

While with Chevron in the early 1960s in Bakersfield, Andy invented the Statistical Curvature Analysis Technique (SCAT). This methodology revolutionized dipmeter and structural interpretation within Chevron and, after Chevron allowed publication of the technique in 1980, became an industry standard. Andy authored or co-authored a dozen papers related to SCAT and gave a number of papers at geological and geophysical conventions. He retired from Chevron in 1982 after a 36-year career as a structural geologist, subsurface geologist, and seismic interpreter in California and Alaska. Andy then had a successful second career consulting in dipmeter interpretation and in the commercialization of SCAT, which is still in use around the world.

Andy Bengtson was a kind, generous, and intelligent man, devoted to his wife and family. His friends, many of whom are Pacific Section members, will miss his quiet and thoughtful presence and gentle good humor.

—Don Lewis

EDWARD BANCROFT TOWNE, JR.

1922–2002

Edward Bancroft "Ned" Towne, Jr., died October 1, 2002, after a fall while walking from his San Francisco offices to catch the Tiburon ferry. The son of Dr. Edward Bancroft Towne and Anne Ellis Towne of San Francisco and Woodside, and the brother of Roger Ellis Towne (deceased), Ned was born in San Francisco on September 4, 1922. He attended Shawnigan Lake (British Columbia) and Midland preparatory schools. He served in Company M, 3rd Battalion, 114th Infantry Regiment of the 44th Army Division in WWII, fighting in France and Germany, where he was wounded. After the war, he studied political science at Berkeley and pre-medicine at Stanford before deciding on geology as his principal area of interest. After studying petroleum geology at the University of Houston, he worked in Texas and Montana as an oil scout.

Returning to San Francisco as an exploration geologist, Ned received backing from his cousin William Stark Towne of M&T, Inc. to develop natural gas prospects in the Sacramento Valley. In the 1960s, with M&T backing, Ned leased and purchased mineral rights based on his and geologist Courtney Decius's vision of the potential of superheated dry steam development at The Geysers. In 1983, based on the success of the geothermal venture, Ned founded Towne Exploration Co. (TEC), a family partnership, to explore for natural gas in the Sacramento Valley. In 1999, TEC entered the rank of the top twenty non-associated gas producers in California.

In 1960, Ned and three partners purchased the *Moor-Ease*, a boat they used to solve their Tiburon-to-San Francisco-commute—an idea that harkened back to the long-forgotten ferry system of old and which now is enjoying a current revival.

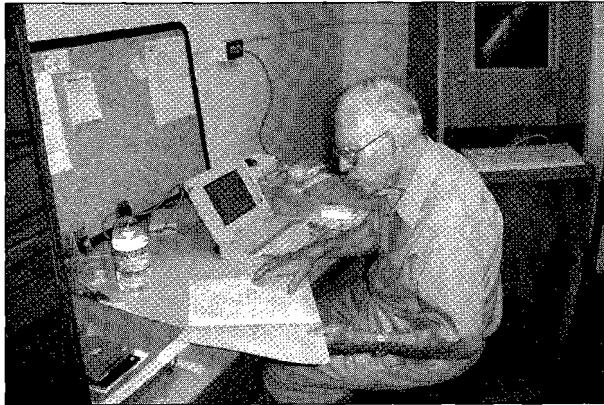
Ned leaves behind four children, Edward Bancroft Towne and Andrew Stark Towne of San Francisco, Mary Palmer Webb of Encinitas, and William Phillips Towne of Nicholasville, Kentucky, and three grandchildren.

—Towne Exploration Company

Memorial notices, articles, and photographs may be sent to the Editor by family or friends of Pacific Section AAPG members. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

Life Is Good When You're In Your Nineties . . .

(compiled by Larry Knauer)



Eddie Stinemeyer (93+) has decided to toss his pencil aside and learn to use a laptop computer to organize and QC paleontological data stored at the California Well Sample Repository in Bakersfield.

90 + geology =
geononagenarian



Russ Simonson (90+) took a field trip to the North Slope of Alaska in conjunction with the 2002 Pacific Section convention in Anchorage. Russ found a better way to keep warm on the flight up.



Tom Dibblee (91) is still hard at it with the Dibblee Foundation. The output of edited and colored maps that Tom has made over the years is escalating. Tom is still reviewing the map data and working with the editors to turn out a terrific product for the rest of us to use.

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

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Operations Coring Coordinator

INTEQ (Formerly Christensen Coring)

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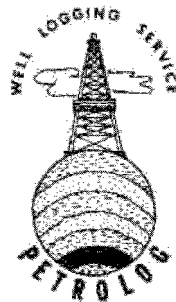
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Geophysical Consultant

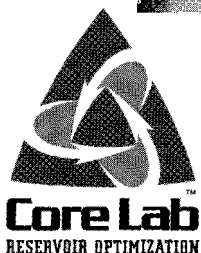
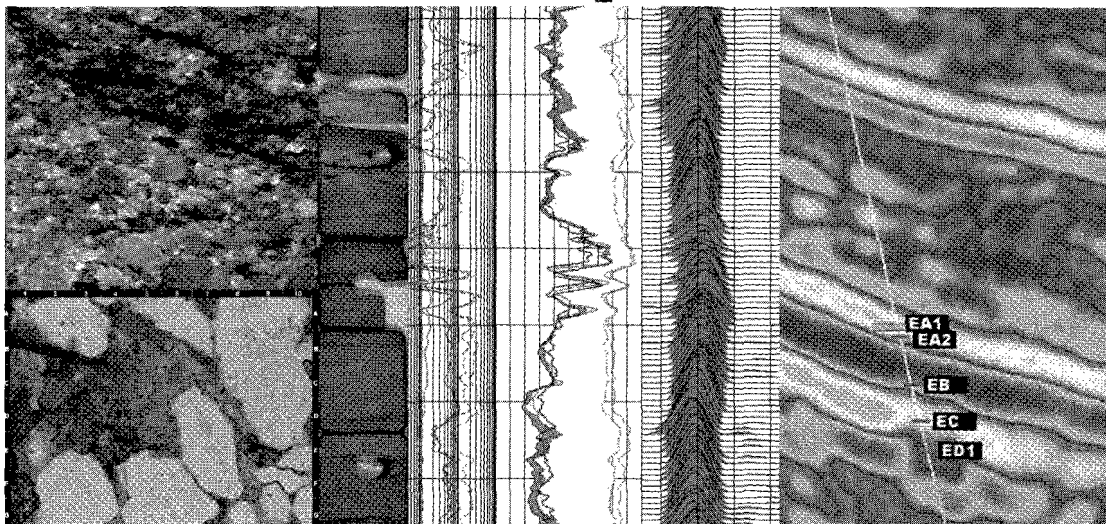
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Call for Papers Ends January 31, 2003

2003 COMBINED MEETING

PACIFIC SECTION AAPG & WESTERN REGION SPE

HILTON HOTEL • LONG BEACH, CALIFORNIA
 Technical Sessions May 21–23



The Pacific Section of the American Association of Petroleum Geologists and the Western Region of the Society of Petroleum Engineers will once again join forces May 21–23, 2003, in Long Beach, California. Continuing with the tradition of combined AAPG–SPE meetings (Long Beach 2000 and Anchorage 2002), a technical program will be assembled to maximize appeal to both geoscientists and engineers.

The theme of the meeting, **L.A. Basin: Original Urban Oilfield Legend**, has been chosen to highlight one of the meeting's primary focus areas: parallel discovery and development of subsurface and surface resources. Numerous technical presentations, symposia, forum topics, short courses, and poster sessions will be devoted to other West Coast-oriented aspects of geoscience and petroleum engineering as well. Geoscientists and petroleum engineers will be able to acquire technical and practical benefits by participating in this combined conference, where the exchange of ideas and innovations should stimulate cross-discipline communication and action.

The following preliminary schedule shows the geoscience sessions (with chairs and organizational affiliations) our PS-AAPG Program Chair, John Cooper, is attempting to coordinate:

Wednesday, May 21		Thursday, May 22		Friday, May 23	
A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
Stratigraphic Applications to Solving Groundwater Issues <i>R. Blake & K. Ehman</i> DEG	Reservoir Modeling & Characterization JOINT	Recent Advances at Elk Hills: Marrying Geology with Technology <i>B. Countryman & B. Long</i> JOINT		Reservoir Characterization JOINT	Contributions to Paleozoic Stratigraphy of Great Basin <i>S. Finney</i> SEPM
Geological, Geophysical & Petroleum Engineering Aspects of Deep-water Deposits <i>T. Nilsen, D. Miller & H. Camacho</i> AAPG		Environ. Geology in Petroleum Industry: New Ideas & Strategies <i>S. Testa</i> DEG	Active Tectonics & Structural Evol. of So. CA Cont. Margin <i>M. Legg</i> AAPG	Neotectonics & Geologic Hazards of Southern California <i>C. Walls & E. Gath</i> AAPG	
Monterey Formation & Chert Development <i>J. Schwalbach</i> AAPG	High Resolution Imaging in Urban Oil Fields <i>K. Paulsson</i> SEG	Neogene Stratigraphy, Sedimentology & Tectonics <i>R. Behl</i> SEPM	Tectonics & Sedimentation: An Integrated Approach <i>M. Sullivan</i> SEPM	Fluid Flow in Active Cont. Margin of CA: Past & Present <i>P. Eichhubl</i> AAPG	Petroleum-related Activities in L.A. Basin <i>R. Suchland</i> AAPG
SPE	SPE	SPE	SPE	SPE	SPE
SPE	SPE	SPE	SPE	SPE	SPE
Earthquake Monitoring & Fault Imaging <i>B. Paulsson</i> SEG	Formation Evaluation <i>S. Grayson</i> SPWLA	SPE	PTTC	SPE	SPE

There will be additional sessions to accommodate papers and posters that don't fit into the above schedule. Help us make this meeting a great technical success by documenting and sharing some of your best work— details regarding abstract submission for an oral paper or a poster presentation can be viewed on the Pacific Section AAPG website at www.psaapg.org or by contacting:

John Cooper, PS-AAPG Program Co-Chair: 714-278-2662, jcooper@fullerton.edu
Glenn Swanson, WR-SPE Program Co-Chair: 562-595-6440, gswanson@shpi.net

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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 2003 issue is February 5, 2003.

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

January & February 2003 password: seismic
March & April 2003 password: tectonic

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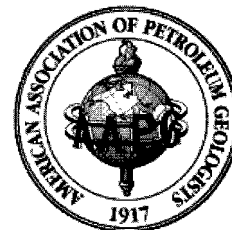
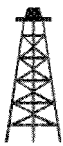


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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

March & April • 2003

MESSAGE FROM THE PRESIDENT: *Geologically Correct*

"I don't care how geologically correct your well is," says my wife. "I just want to know that it's going to make oil. And, by the way, the bank feels the same as I do about this!" I can appreciate their sentiment. It takes money for your business or your household to survive. It also takes money for the Pacific Section to survive and to carry out its many worthwhile programs. This money has traditionally come from conventions, field trips, publications, dues, and donations. In past years, much of the financial support for Pacific Section activities came from major oil companies, many of which have been rolled up under one banner. And the surviving companies are not making contributions equal to all the companies they swallowed up. While we should not expect them to, it is reasonable to expect the surviving majors to increase their level of support from pre-merger days. But it is also reasonable to expect independent oil companies to increase their level of support. After all, much of their production comes from properties once owned by the now swallowed-up majors. What can we do about this? Each of us can go to our employers or our clients and ask them to increase their level of financial support to the Pacific Section. Contributions made to the Pacific Section Foundation are 100% tax deductible. And if you happened to have been geologically correct and found pay, you might consider bequeathing a portion of it to the Foundation. Contributions from individuals and from companies large and small will support educational programs that benefit fellow geologists and their employers, students and their teachers, and the communities in which we live. That would really be geologically correct!

Thanks to **Allen Britton**, **Mark Wilson**, and **Larry Knauer** for assembling a terrific slate of candidates for the Pacific Section officers, and thanks to the candidates for taking an active part in affairs of the Section. Please respect their efforts by taking the time to review each of the candidates (pages 4-5) and by casting your ballot in the election.

We still have some members who are delinquent in their dues. If you are one of these delinquent members, you are not reading this because your name has been removed from the mailing list. All others, please check with your colleagues and, if they are delinquent, remind them they need to pay so they can continue to support and enjoy the benefits of technical presentations and publications, mentoring, data preservation, and networking provided by Pacific Section AAPG.

Continued on page 2

**FIRST THEY SAID IT COULD NEVER HAPPEN
NOW IT'S HAPPENING AGAIN!**



**Mark your calendar for our Third
Joint Convention**

**PACIFIC SECTION AAPG
&
WESTERN REGION SPE**

Hilton Hotel — Long Beach, California

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For more information log on to

www.psaapg.org

*Look for your convention announcement
in the mail — arriving early March !*

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News From our Member Geological Societies	6
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MESSAGE FROM THE PRESIDENT *Continued from page 1*

How long has the Sacramento Petroleum Association been around — since 1943, 1958, or 1966? See how good your guess is and learn more about this member society of Pacific Section in SPA President Rick Blake's article in this month's "Society Spotlight" (page 3).

In the Bob Hope vernacular, "How about that Convention Committee?" Under the guidance of convention co-chairs **Dalton Lockman** (Pacific Section AAPG) and **Sam Sarem** (Western Region SPE), they are doing a fantastic job of putting together this year's convention in Long Beach. From the cornucopia of food and refreshments designed by **Ed Magdalena** for the Ice Breaker to the last of the technical sessions, chaired by **John Cooper** (geoscience) and **Glenn Swanson** (engineering), it will be an event you won't want to miss. And the Joint Luncheon will feature

Olympic Gold Medallist **Rafer Johnson** talking about being the best that you can be. You will be on the edge of your seat. Mark your calendar: May 20-23, 2003, in Long Beach, California, for the joint PS-AAPG & WR-SPE Convention.

Do you ever wonder why the price of gasoline is so high? Read "The Ever-Changing Price of Gasoline" article (page 3) to get the real low-down on this often-asked question.

Finally, I would like to thank **Tom Redin** for the terrific job he is doing on the Santa Barbara Channel set of Pacific Section Correlation Sections. Tom has worked on eleven of these sections and has single-handedly completed eight of the thirteen sections in this series. Way to go, Tom. We all appreciate your hard work and the great sections you are constructing. We look forward to seeing them at the Convention in Long Beach.

—Tom Hopps, President, Pacific Section AAPG



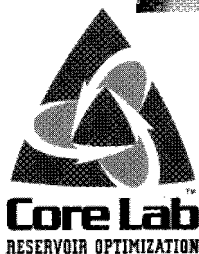
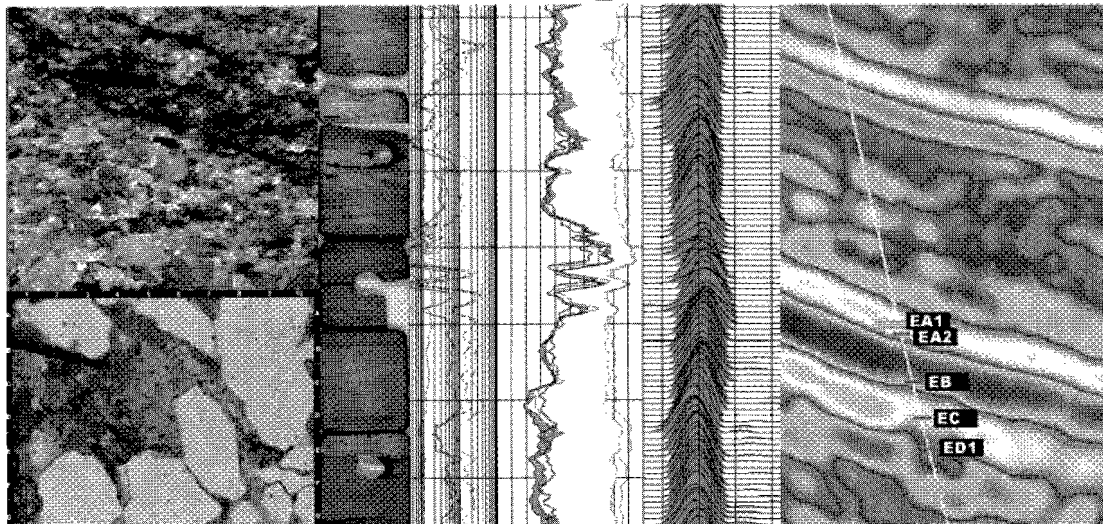
Annual Business Meetings • Pacific Section AAPG • May 23 • Long Beach

All Pacific Section AAPG members are invited to attend the annual open business meetings of the Pacific Section AAPG and Pacific Section AAPG Foundation, which will be held during the 2003 AAPG & SPE Convention in Long Beach. The business meetings will be held at the Hilton Hotel on Friday, May 23:

Pacific Section AAPG Foundation: 4:00 to 5:00 p.m.

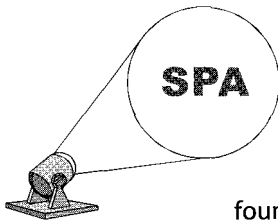
Pacific Section AAPG: 5:00 to 6:00 p.m.

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SOCIETY SPOTLIGHT: *Sacramento Petroleum Association*

The Sacramento Petroleum Association (SPA) is an AAPG affiliate of the Pacific Section AAPG and was founded in the early summer of 1958. The first president was Bruce Brooks (Superior Oil, Brazos Oil and Gas, and then founder and President of Capitol Oil Corporation). The SPA is the offshoot of the Northern California Petroleum Round Table, which was founded in 1951 by Swiss Holms (ex Shell) and Hubert Mee (Land Man and founder of the original Natural Gas Corporation). In those days, they met every week at a Sacramento restaurant with geologists, land men, and service company personnel to talk shop. Every week the oil men would divide up the Sacramento Valley by county and conduct land title checks, research drilling activity, look at available scouting reports, and trade this information at the next meeting. This went on for several years until SPA was formed in 1958.

The SPA membership has fluctuated over the years due to oil industry downturns and booms, but presently has a membership of approximately 200. The SPA luncheon meetings are held once a month on the third Wednesday at the Hungry Hunter Restaurant off Richards Way and Interstate I-5 in Sacramento. The meetings are attended by geologists, land men, service company personnel, state and federal employees, consultants, students, and academics. The meetings provide a forum for social and professional exchange, as well as guest speakers that present a variety of topics. In addition, field trips are scheduled for spring and fall; there is a joint golf tournament in May with the California Natural Gas Producers Association; and members always enjoy the holiday cheer at our annual "Gas Patch" Holiday Party in December in Sacramento.

Scheduled speakers in 2003 include:

- **Roland Bain** (Petroleum Consultant): *Review of 2002 Drilling Highlights in the Sacramento Valley*
- **Brian Hausback** (Sacramento State University): *Sutter Buttes, Volcano in the Sacramento Valley*
- **Dave Jones** (DMJ Gas Marketing and ex Calpine Natural Gas): *Natural Gas Marketing Opportunities in the Sacramento Valley*
- **Bob Cohan** (Aspen Exploration): *Geology and Development History of the Denverton Creek Gas Field*

Scheduled and potential field trips in 2003 include:

- The Geysers Geothermal Field, Middletown, CA (April)
- California Gold Country, A tour of the 16:1 Gold Mine
- Wild Goose Gas Storage Field
- Great Valley Sequence, West Side Sacramento Valley
- Sutter Buttes Geologic Field Trip

The SPA welcomes new members and students, and invites interested parties to contact us if interested in being a guest speaker. For further information, please contact **Rick Blake** at 925-422-9910, blake2@lnl.gov.

—Rick Blake, President, Sacramento Petroleum Association



THE EVER-CHANGING PRICE OF GASOLINE



Although gasoline price jumps may have a modest impact on an overall household budget, they get our attention because we buy gas on average twice a week, and buy more gas in the summer for vacation travel. *Crude oil, refining, and shipping costs affect the price of gas. Pump rates also vary by short-term factors such as refinery and pipeline outages, and state and local regulations on shipping and zoning.*

"Gasoline prices are sharply etched into consumers' minds, more so than possibly any other consumer product," according to Stanford economist Jeremy Bulow. "Refiners are producing at a very high percentage of capacity these days. When there is a supply disruption, we will have a price spike," Bulow says. There is no excess fuel production from which to draw. Complicating the supply side are the "boutique fuel" regulations concerning fuel additives, which vary by region. The gasoline in Chicago is different from the gasoline in Detroit, and even from the gasoline in the suburbs of Chicago. It takes two weeks to refine a specific formulation of gasoline, and several more weeks to ship it to a specific market. If the entire country were using the same kind of gasoline, it would speed the availability of fuel to any area facing a shortage and keep prices more level.

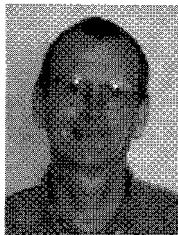
Another factor in gasoline pricing is local and regional regulations. For example, in California, which has its own specific gas formulation, when there is a refinery outage, gasoline can be shipped in from another U.S. location only in something called a "Jones Act Vessel," a boat built in, crewed by, and flying under the flag of the United States. This means it costs as much to ship fuel from Louisiana to California as from Norway to California.

In spite of constant fluctuation in the price of gasoline, a Houston, Texas consumer documents an annual increase averaging just under 4%. But measured in constant (1979) dollars, the price has fallen slightly less than 0.5% per year over the same period. So, while we all feel the personal impact of the ever-changing price of gasoline, it's still a bargain.

—This article is abridged from a Stanford Graduate School of Business article by Lisa Eunson, "Production Factors, Not Conspiracies, Cause Gasoline Price Spikes" (http://www.gsb.stanford.edu/news/research/econ_gasprices.shtml).

Houston prices are from "Gasoline Price History" (<http://www.ghg.net/stuart/gasprice/gasprice.html>).

In this year's Pacific Section AAPG election, all four Executive Committee offices (President-Elect, Vice President, Treasurer, 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.



**STEVE
SANFORD**

*Candidate for President-Elect
2003-2004*

Present Position

Project Manager, ChevronTexaco, Bakersfield

Education

B.S. Geology, Syracuse University, 1977; M.S. Geological Sciences, University of California, Riverside, 1981

Employment

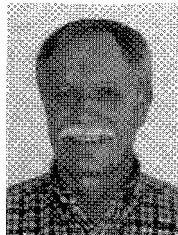
Exploration and Development Geologist, Gulf Oil, Bakersfield, 1981-1985; Development Geologist, Chevron USA Production Company, Bakersfield, 1985-2000; Project Manager, ChevronTexaco, Bakersfield, 2000-Present

Pacific Section AAPG Involvement

Session Chair, Pacific Section Convention, 1993, 2000; Secretary, Pacific Section AAPG, 2001-2002; Vice President, Pacific Section AAPG, 2002-2003

Professional Affiliations

AAPG, Pacific Section AAPG, SPE



**DAVE
WALTER**

*Candidate for President-Elect
2003-2004*

Present Position

Senior Staff Geologist/Vice-President, EarthQuest Technology, Inc., Bakersfield

Education

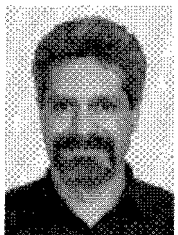
B.S. Geology, Arkansas Tech. University, 1971; M.S. Geology, Arizona State University, 1976

Employment

Exploration Geologist, UNOCAL, Bakersfield/Ventura, 1976-1981; Exploration Geologist, ARCO, Tulsa, 1981-1982; Senior Staff Geologist, G & G Manager, Santa Fe Energy/Monterey Resources, Tulsa/Denver/Midland/Bakersfield, 1982-1997; Asset Team Geologist, Texaco, Bakersfield, 1997-1999; Geologist, D.P.I., Inc., Bakersfield, 1998; Senior Staff Geologist/Vice-President, EarthQuest Technology, Inc., Bakersfield, 1999-Present

Professional Affiliations

AAPG, Pacific Section AAPG, San Joaquin Geological Society, San Joaquin Well Logging Society



**JOHN
HOWE**

*Candidate for Vice President
2003-2004*

Present Position

President, Archer Exploration, Inc.; CEO, Longbow, LLC

Education

B.S. Geology, Illinois State University, 1977; Graduate work, Northern Illinois University

Employment

John founded Archer Exploration after leaving Occidental Petroleum in 1987. In 1992, he incorporated Archer in Nevada and began to operate exploratory test wells in California. He has 22 years of geologic and engineering experience in the petroleum, mineral, environmental, and construction industries. He worked eight years as an employee of Conoco, Cities Service, and Occidental Petroleum, where he was involved in federal lease sales offshore California and development of fields in California. He has evaluated, produced, and sold prospects in Santa Maria, San Joaquin, Sacramento, and Ventura basins. In 2002, John and partners formed Longbow, LLC to acquire and operate producing properties in the western U.S.

Pacific Section AAPG Involvement

Secretary, Pacific Section AAPG, 1992-1993; Member, Pacific Section Convention Committees; Vice-Chair, Pacific Section Convention, 1997

Professional Affiliations

Pacific Section AAPG, California Registered Geologist



**JON
SCHWALBACH**

*Candidate for Vice President
2003-2004*

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

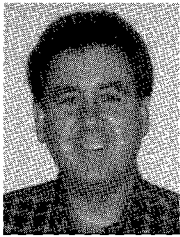
Exxon USA, Exxon Production Research, Exxon Exploration Company, 1982-2000; Occidental of Elk Hills, Inc., Tupman, CA, 2000-Present

Pacific Section AAPG Involvement

Numerous talks and posters presented at AAPG and SEPM national and section meetings, 1983-2001; Fieldtrip Leader, SEPM Pacific Section, 1992; Poster Session Chair, AAPG National Meeting, 1995; Convention Chair, Pacific Section Convention, 1998; Oral Session Chair, Pacific Section Convention, 1999; Oral Session Chair, Pacific Section Convention, 2001; Secretary, Pacific Section AAPG, 2002-2003

Professional Affiliations

AAPG, Pacific Section AAPG, SEPM



**ROB
FAIRMAN**

*Candidate for Secretary
2002-2003*

Present Position

Geologist, Aera Energy LLC, Bakersfield

Education

B.S. Geology, University of Michigan, 1977; Law Degree, California Pacific School of Law, 1992.

Employment

Rob is a geologist at Aera Energy LLC responsible for heavy oil reservoir surveillance and development in the northern part of the Lost Hills Field. Prior to joining Aera in 1997, he was a wellsite field engineer for both Mobil and Cal Resources. He has also worked as a Development Geologist for Chevron in the North Cymric Field, and was their Western Region Formation Evaluation specialist. Prior to joining Chevron in 1985, he worked Alaska exploration for Gulf Oil. He began his career in the oilfield as a wireline field engineer for Dresser Atlas in 1977. Rob also practiced law from 1992 to 1994.

Professional Affiliations

Pacific Section AAPG, San Joaquin Well Logging Society (Past President), Society of Professional Well Log Analysts, Kern County Bar Association, California State Bar Association, California Pacific School of Law Student Bar (Past President)



**MIKE
WRACHER**

*Candidate for Secretary
2002-2003*

Present Position

Geologist, Venoco Inc., Carpinteria

Employment

I am a geologist for Venoco Inc. in Carpinteria, where I am attempting to unravel the geology of a portion of the Santa Barbara Channel. My present focus is the Sockeye field in the southeastern channel, as geologist and team lead for our development effort. Prior to graduate school, I worked as mudlogger for Epoch Well Logging. I started with Mobil in 1991 after graduate school, working Lost Hills and then Belridge fields. [I worked] a few years with Aera, and then Venoco Inc. in 1998, where I have had assignments in the L.A. basin and now the offshore. I enjoy the mutilated rocks of California and so by default am quite comfortable in the knowledge that I am probably mistaken.

Pacific Section AAPG Involvement

Presenter, Pacific Section AAPG Convention, 1998, 2001, 2003

Professional Affiliations

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



**HANA
BAKER**

*Candidate for Treasurer
2003-2005*

Present Position

Earthscientist, ChevronTexaco, Bakersfield

Education

B.S. Geophysical Engineering, Montana Tech. of the University of Montana; M.S. Geophysics, Boston College

Employment

Hana has two years of professional experience as a petroleum geologist, which includes reservoir characterization for the Rabbit Hills gas field in north central Montana; earth modeling and visualization for Texaco in the Kern River, Midway Sunset, and San Ardo oil fields; and heavy oil heat-management technology development for ChevronTexaco. She is currently an Earthscientist for ChevronTexaco working asset development in the Midway Sunset oil field, Bakersfield.

Pacific Section AAPG & Community Involvement

Hana is a new member of Pacific Section AAPG. For the last ten years, she has been heavily involved in community service with Kiwanis International, where she has held the office of Montana District CKI Governor, Montana District Kiwanis Administrative Secretary/Treasurer (6 years), and currently the Secretary/Web Developer of the Tombstone Kiwanis Club.

Professional Affiliations

Pacific Section AAPG



**NANCY
WILDMAN**

*Candidate for Treasurer
2003-2005*

Present Position

Geologist, Chevron USA/ChevronTexaco, Bakersfield

Education

B.S. Geology, Earlham College, Richmond, IN; M.S. Earth Science, Colorado State University

Employment

Coal Exploration Geologist, Kemmerer Coal Company, Kemmerer, WY, 1981; Mine Geologist, Pittsburg & Midway Coal Mining Co. (Gulf/Chevron), Gallup, NM, 1982-1989; Coal Exploration & Development Geologist, Pittsburg & Midway Coal Mining Co. (Chevron), Denver, CO & Raton Basin, NM, 1989-1996; Geologist, Chevron USA/ChevronTexaco, Bakersfield, 1996-Present

Pacific Section AAPG Involvement

Presenter, Pacific Section Convention, 1999, 2001

Professional Affiliations

Pacific Section AAPG



Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



Luncheon meetings are usually held on the third Thursday of the month (except July and August) 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). Upcoming meetings are scheduled for March 20 and April 17.



AGS and the University of Alaska will host the 2003 "What's New in Alaska" Technical Conference on April 25 in Fairbanks (see page 19). For more information, see www.alaskageology.org.

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Philip Kinney
805-230-1266 ext. 224



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will be held at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura until further notice (check the CGS website for details). 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 \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. Upcoming meetings are scheduled for March 18 and April 15. Reservations can be made by e-mail to cgs.rsvp@sbcglobal.net, by phone (to **Dave Brown**) at 805-653-7975, or by fax at 805-653-7452. Reservations are due by 4:00 p.m. on Friday before the meeting.



CGS will promote the geosciences at the Ventura County Science Fair and Interactive Science Career Expo on March 19 at the Ventura County Fairgrounds in Ventura. Volunteers are needed to staff the CGS activities booth and to judge science fair projects; if interested, contact **Phil Kinney** at 805-230-1266 ext. 224.



CGS has launched its CGS History Project and is seeking pictures, stories, old meeting notices, and any other information documenting the history of CGS from the last century. If you have a piece of CGS history to share, contact CGS Historian **Donna Lee Simmons** at coastgeo@pacbell.net. Material can be submitted electronically, or CGS will scan paper items and promptly return them.

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 usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Upcoming meetings are scheduled for March 27 and April 24. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



LABGS along with the LA Basin Section of the Society of Petroleum Engineers will host the 2003 Pacific Section AAPG Convention and Western Regional SPE Meeting. The joint meeting will be held at the Hilton Hotel in Long Beach, California, with technical sessions from May 21 to May 23. For information, see www.psaapg.org/convent.html.



LABGS will sponsor two field trips during the 2003 joint Pacific Section AAPG & Western Region SPE meeting. One trip will examine the oil fields along the Newport-Inglewood Fault trend. Another trip will view the turbidite outcrops at San Clemente State Beach. For more information, see LABGS's website at www.labgs.org or the convention website at www.psaapg.org/convent.html.



LABGS has a new logo (left) and has retired the old logo, which was used since the 1970s. Thanks to **Ivan Aburto** and **Juan Benitez** for completing the artwork. The new logo can be spotted on the LABGS newsletter, the new LABGS website, and tee shirts that are given away as raffle prizes during the monthly luncheon meetings.

Northern California Geological Society
www.ncgeol.org

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) 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). Upcoming meetings are scheduled for March 26 and April 30. 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 pleased to announce that, thanks to the efforts of member **Art Bonwell**, NCGS has an attractive and fast website! The site, which is located at www.ncgeol.org, will be undergoing additions and changes over time as new features are incorporated; plans are to post past newsletters, photos and maps from field trips, a listing of NCGS publications, upcoming meeting and field trip information, links, and a number of other elements. To provide suggestions for or assistance maintaining the site, contact **Mark Detterman** (mdetterman@blymyer.com), who will put you in contact with website designer Art Bonwell.



NCGS will hold a field trip to Pacheco Pass, led by **Gary Ernst**, (Stanford University) on April 12. For more information, contact NCGS Field Trip Coordinator **Jean Moran** at jeanm@stetsonengineers.com.

Northwest Energy Association
www.nwenergyassociation.org

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

Contact: Jim Jackson
503-771-3887



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. Upcoming meetings are scheduled for March 14 and April 11. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.

Sacramento Petroleum Association

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

Contact: Rick Blake
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. Upcoming meetings are scheduled for March 19 and April 16. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. Anyone interested in giving a presentation at a monthly meeting should contact **Rick Blake** at 925-422-9910 or blake2@lnl.gov.



During the February 19 NCGS luncheon meeting, consulting petroleum geologist **Roland Bain** presented his annual "Review of Drilling Activity and Highlights in the Sacramento Valley for 2002." A handout covering his information is available by contacting **Pam Ceccarelli** at 916-322-1097 or pceccare@consrv.ca.gov.



SPA donated \$500 to the Kern County Museum Foundation in Bakersfield. A permanent granite brick, engraved "Sacramento Petroleum Association," will be placed in the new Donor Plaza. The engraved tribute will surround an early 20th-century, short-tail, wooden pumping unit from the 11C camp at Taft.

San Joaquin Geological Society
www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Jaime Roig
661-665-5942



Dinner meetings are usually held on the second Tuesday of the month (except July through September) 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. Upcoming meetings are scheduled for March 11 and April 8. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.

MARCH & APRIL 2003

March 11 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield
Speaker: TBA

March 14 — NWEA Monthly Luncheon Meeting
Location: Multnomah Athletic Club, Portland
Speaker: Willie Scott (U.S. Geological Survey)
Title: Volcanic Hazards of the Cascades

March 18 — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: Bill Bilodeau (California Lutheran University)
Title: Shock Structures Near Impact Sites

March 19 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: Brian P. Hausback (California State University, Sacramento)
Title: Sutter Buttes-Volcano in the Sacramento Valley

March 20 — Alaska Geological Society Luncheon Meeting
Location: Anchorage Hilton, Anchorage
Speaker: Bob Burrell (U.S. Geological Survey)
Title: NPRA Geochemistry

March 26 — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: Constanze Weyhenmeyer (Lawrence Livermore National Laboratory)
Title: Reconstructing Paleoclimates using Groundwater Isotopes, Ice Cores, and Stalagmites

March 27 — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Conference Center, Long Beach
Speaker: Azzam Alwash
Title: Saddam Hussein's Draining of the Tigris and Euphrates Rivers for Strategic Reasons and What's Involved in Future Restoration of its Marshes

March 31-April 11 — AAPG Distinguished Lecture
Host: NCGS (date, time, and location TBA)
Speaker: Cindy Yielding (British Petroleum)
Title: The History of a New Play: Thunder Horse Discovery, Deepwater Gulf of Mexico

April 3 — AAPG Distinguished Lecture
Host: AAPG Student Chapter, CSU Bakersfield
Location: California State University, Bakersfield
Speaker: Cindy Yielding (British Petroleum)
Title: The History of a New Play: Thunder Horse Discovery, Deepwater Gulf of Mexico
 For contact information, see page 19.

April 8 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield
Speaker: TBA

April 11 — NWEA Monthly Luncheon Meeting
Location: Multnomah Athletic Club, Portland
Speaker: Dick Adams (Pacific Northwest Utilities Committee)
Title: The Future of Northwest Electricity

April 11 — BAPL Charity Golf Classic
Host: Bakersfield Association of Petroleum Landmen
Location: Rio Bravo Country Club, Bakersfield
 For contact information, see page 19.

April 12 — NCGS Field Trip
Location: Pacheco Pass
Leader: Gary Ernst (Stanford University)
 For contact information, see page 7.

April 15 — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: Lawrence Faulkner (Solid Terrain Modeling)
Title: Three Dimensional Physical Terrain Models

April 16 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: TBA

April 17 — AGS Luncheon Meeting
Location: Anchorage Hilton, Anchorage
Speaker: Kevin May (University of Alaska, Fairbanks Museum)
Title: Alaska Dinosaurs

April 24 — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Conference Center, Long Beach
Speaker: Jose Borrero
Title: Tsunami Potential and Risk Along the Southern California Coast

April 25 — AGS Technology Conference
Location: University of Alaska, Fairbanks
Theme: What's New in Alaska
 For information, see www.alaskageology.org.

April 30 — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: Morgan Sullivan (California State University, Chico)
Title: Sequence Stratigraphy of the Ridge Basin, California

UPCOMING EVENTS

- May 9 • NWEA Monthly Luncheon Meeting
- May 10 • NCGS Field Trip (Diablo Range)
- May 11-14 • AAPG Annual Meeting (Salt Lake City)
- May 13 • SJGS Monthly Dinner Meeting
- May 15 • AGS Monthly Luncheon Meeting
- May 20 • CGS Monthly Dinner Meeting
- May 21 • SPA Monthly Luncheon Meeting
- May 21-23 • PS-AAPG & WR-SPE Convention (Long Beach)
- May 28 • NCGS Monthly Meeting
- June 6-8 • NCGS Field Trip (Rodgers Creek-Maacama Fault)
- June 10 • SJGS Monthly Dinner Meeting
- June 13 • NWEA Monthly Luncheon Meeting
- June 17 • CGS Monthly Dinner Meeting
- June 18 • SPA Monthly Luncheon Meeting
- June 25 • NCGS Monthly Meeting
- June 26 • LABGS Monthly Luncheon Meeting

* Tentative

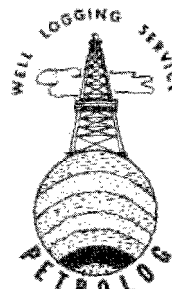
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NEW & REINSTATED MEMBERS — **Richard J. Behl**, California State University, Long Beach, Long Beach, CA • **Aaron M. Biehl**, California State University, Northridge, Los Angeles, CA • **Eric J. Boyer**, California State University, Northridge, Northridge, CA • **Michael S. Burke**, Fugro West, Ventura, CA • **Elizabeth Corona**, California State University, Northridge, Sun Valley, CA • **John M. Donich**, California State University, Northridge, Los Angeles, CA • **Jacob M. Frederick**, California State University, Northridge, Rosemead, CA • **Colleen Gainer**, California State University, Northridge, Valencia, CA • **Matthew A. Guarino**, California State University, Northridge, Northridge, CA • **Abby W. Howell**, ChevronTexaco, Bakersfield, CA • **Daniel Jauregui**, California State University, Northridge, Sun Valley, CA • **Patrick J. Kahn**, California State University, Northridge, North Hollywood, CA • **Geoffrey P. McStrow**, The Aerospace Corporation, Encino, CA • **Alana Schwab**, California State University, Northridge, Los Angeles, CA • **Daniel Steward**, ChevronTexaco, New Orleans, LA • **Mary C. Wallis**, Orange County Natural History Museum, Newport Beach, CA • **David R. Walter**, EarthQuest Technology, Inc., Bakersfield, CA • **Wade H. Williams**, Core Laboratories, Bakersfield, CA

RICHARD A. "DICK" GANONG

1922–2002



Dick was born in Fullerton, California, on February 21, 1922. He passed to the Lord on November 2, 2002, with his family at home in Bakersfield. He was a third-generation Californian who loved its mountains and taught his passion for skiing to his children and grandchildren, who included professional skiers and a U.S. National Team racer. He obtained his first pilot's license in 1938 at the age of 18. He could not fly during the second world war due to his color blindness, but his ROTC training at the Colorado School of Mines prepared him to be assigned to Fort Belvoir, Virginia, as a second lieutenant training army combat engineers. He married his high school sweetheart, Janet Koch of Fullerton in 1944, completed his tour of duty with the Army Corps of Engineers, returning to Golden, Colorado, to complete his professional degree in petroleum engineering at the Colorado School of Mines.

In 1947, Dick and Jan moved to the Central Valley to take a position with General Petroleum Corp. Dick started his private consulting petroleum engineering and geology practice in 1955, exploring for new reservoirs of oil and gas in California with companies like Occidental Petroleum and McCulloch Exploration. Dick's work in association with others resulted in the discovery of the Tulare Lake Field. Dick was a registered professional engineer and a registered geologist with the State of California. He was a member of the Society of Petroleum Engineers, American Association of Petroleum Geologists, American Petroleum Institute, and California Independent Producers Association. An active alumni of the Colorado School of Mines, Dick supported the Bakersfield Section for many years and attended functions welcoming students and school visitors to the Bakersfield area. In the 52 years of his practice, he developed a reputation for honesty, integrity, and selfless work, contributing several papers to the AAPG libraries. All who knew him professionally in the oil industry recognized that he had a passion for the oil business.

During his professional practice he took up flying once more, becoming an instrument-rated, multi-engine, and jet prop-qualified private pilot. He loved to fly his airplanes to visit his well locations, his family, and his friends. Dick also developed a keen interest and pleasure in the game of golf. He had been an early member of the Bakersfield Country Club and was an active member of the Stockdale Country Club. Dick taught his family by example. His kids learned what it meant to be a gentleman, an advocate, a scientist, an engineer, an outdoor enthusiast, a husband, a father, a grandfather, and an inspiration.

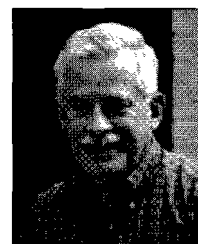
He is survived by his wife of 58 years and the love-of-his-life, Janet K. Ganong of Bakersfield; sons Dr. Richard B. Ganong of North Shore Lake Tahoe, Stephen A. Ganong of Mammoth Lakes, and Philip W. Ganong, Esq., of Bakersfield; daughter Barbara L. Ganong-Gilbraith, P.E., Golden, Colorado; ten loving grandchildren; and his sister Gloria Johnson of Balboa Peninsula.

His remains were interred in Fullerton. A memorial service was held on November 27, 2002, at the Stockdale Country Club.

—Richard B. Ganong and Barbara L. Ganong-Gilbraith

ROGER G. ALEXANDER, JR.

1922-2002



The geological community lost a notable member on June 8, 2002, when Roger Gordon Alexander, Jr., died after a series of increasing health problems. Born on October 11, 1922, Roger earned an A.B. degree in Geology in 1943 at Princeton and then served as an officer in the 44th Infantry Division, earning Silver and Bronze Stars in Europe. After the war, Roger returned to Princeton, gaining a B.S. in 1947, an M.S. in 1948, and a Ph.D. in 1951.

Roger joined the Standard Oil Company of California in 1951 and worked in Los Angeles, Salt Lake City, Bakersfield, Ventura, San Francisco, and Houston. In 1969, Roger began his international career as Chief Geologist in Perth for West Australia Petroleum Pty (Wapet), seconded from Standard. He then moved to Dhahran, where he was Chief Geologist for Aramco. In 1974, Roger returned to San Francisco, where, after three years as a Geological Planning Consultant, he continued his distinguished career as a Chief Geologist, this time for Chevron Overseas Petroleum Inc., and retained this position until his retirement in 1985.

Roger was active in the geological profession at all his stops. He was president of the Intermountain Association of Petroleum Geologists in 1954, vice president of the Coast Geological Society in 1962, president of the West Australia branch of the Australia Petroleum Exploration Association in 1971, president of the Arabian section of AIME, and president in 1977 of the Northern California Geological Society.

Roger joined AAPG in 1951. At various times, he was an associate editor of the Bulletin, a delegate to the House of Delegates, a member of two annual meeting committees, an officer of the Pacific Section, and a presenter of papers at annual meetings and the first Pratt Conference.

Following his retirement, Roger for many years taught a popular globe-spanning petroleum geology course at the University of California in Berkeley. He assisted at some of UCB's field camps and was universally appreciated by the students.

He leaves his wife Mia, son Lewis, and daughters Virginia and Nelle, their spouses, and seven grandchildren with myriad happy memories of his optimism, enthusiasm, intellectual curiosity, and engaging concern for people.

—Donald W. Lewis

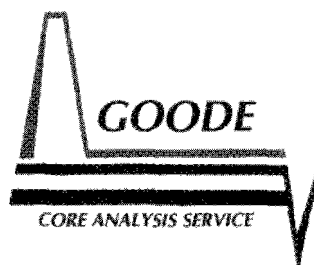
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Operations Coring Coordinator



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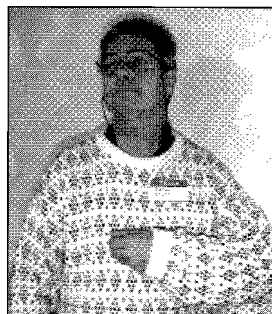
Pacific Section AAPG Members at Large . . .

. . . at the San Joaquin Geological Society meeting in Bakersfield on January 14

(photos courtesy of Allen Britton)



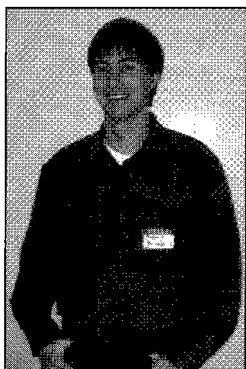
Left to right: **Glenn Gregory**, **Mark Wilson**, and **Tom Hopps** in a jovial mood as the beer flows.



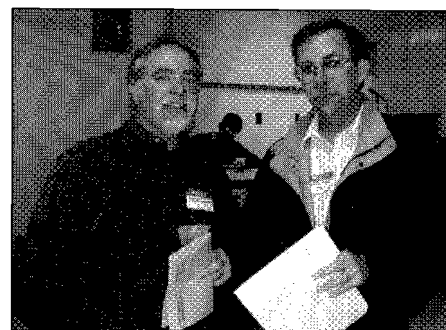
Harold Sugden contemplates running for U.S. President in 2004.



Jaime Roig reacts to **Amy Diulio** telling members that "Yes, extra raffle tickets really are \$349 each."



Robert Brady, Professor of Geology at Cal State University, Bakersfield and the evenings' speaker on transpression along the San Andreas Fault.



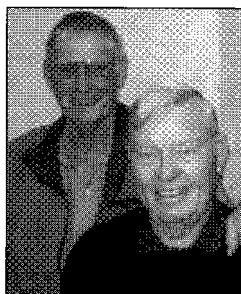
Steve Graham (left) and **Bob Countryman** plot strategy.

. . . at the Coast Geological Society meeting in Ventura on January 21

(photos courtesy of Hal Myers)



Many Pacific Section AAPG officers attended the CGS meeting following an Executive Committee meeting in Santa Paula. Left to right: **Tom Hopps** (President), **Allen Britton** (Past President), **Harold Syms** (Treasurer), **Bob Lindblom** (Honors & Awards Committee Chair), **Allen Waggoner** (President-Elect), and **Larry Knauer** (Publications Chair). Vice President **Steve Sanford** was sequestered safely in Bakersfield in the event of a disaster in Ventura.



Hal Myers (left) and **Bob Lindblom**. Friends despite their height differential.



Four Bees: Bob, Buzz, and their Beers. **Robert "Bob" Burns** (left) and **L. F. "Buzz" Ivanhoe**.

A DAY IN THE FIELD WITH TOM DIBBLEE

Glendora/Baldy Village Area • May 24, 2003



The **Dibblee Geological Foundation** and the **Santa Barbara Museum of Natural History** invite you to participate in "A Day In The Field" with living-legend **Tom Dibblee**, along with Cal Poly Professor **Jon Nourse**, CSU Northridge Professor **Peter Weigand**, and Dibblee Foundation Map Editor **John Minch**. Tom and John's San Gabriel map collection will be featured and available for purchase.

Great views and precipitous canyon and waterfall **outcrops** reveal processes of extension, intrusion, rotation, and displacement associated with subduction magmatism and a later-evolving dextral plate boundary. There will be **dramatic geology** for every interest.

Proceeds will benefit the Dibblee Geological Center of the Santa Barbara Museum of Natural History, a 501(c)3 nonprofit educational organization. Proceeds from this fundraiser will be used exclusively for the continued publication of Tom Dibblee's extensive geologic mapping of California.

Fee: \$150 (includes transportation, coffee, doughnuts, BBQ lunch catered by Halliburton, ski lift, guidebook, and map)

Registration deadline: May 10, 2003 (registration form below)

FOR MORE INFORMATION, CONTACT JOHN POWELL AT:

dibbleemap@adelphia.net • 805-987-5846 • P.O. Box 2309, Camarillo, CA 93011

Name _____ Name2 _____

Street Address _____ City _____ Zip _____

Phone _____ Fax _____ E-mail _____

Here is my \$ _____ (\$150 per person). I can not attend, but here is my gift to the DGC \$ _____

_____ I have a van that can be used on the field trip that will hold this number of passengers: _____

_____ Please contact me about Planned Giving opportunities to support the publication of Tom's remaining 390 maps.

Make checks payable to the SBMNH / Dibblee Geological Center and mail this form with your check to:
John Powell, P.O. Box 2309, Camarillo, CA 93011

Additional information and meeting location will be mailed with your registration confirmation.

Index and order forms for Dibblee Maps and CDs are available at <http://dibblee.geol.ucsb.edu>.

DAVID B. DEL MAR
Consulting Petroleum Geologist
California Registered Geologist #634

Development – Thermal EOR – Property Reviews

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PETROGRAPHY OF THE DEEPEST PORTIONS OF THE GREAT BASINS PETROLEUM 31x-10 WELL, KERN COUNTY, CALIFORNIA

Craig Byington and Robert A. Horton, Jr.; California State University, Bakersfield

INTRODUCTION

Great Basins Petroleum 31x-10 was drilled in 1973 to a depth of 21,640 ft, a California record at the time. The well was located in Section 10, T 27 S, R 22 E, approximately midway between the Semitropic and Lost Hills fields (Figure 1) and penetrated at least into Middle Eocene strata (Fulwider et al., 1973). On a lap test at 17,728 ft, the well flowed at a rate of 900 B/D of 45° API oil and 3500 MCF gas from probable Lower Miocene sediments (Taylor, 1974; Colvin, 1975), but mechanical problems prevented completion of the well. Fifty-seven feet of core were recovered from Eocene sediments in two intervals below 21,000 ft. Analysis of these cores (Cusator, 1973) yielded porosity values ranging from 7.7 to 19.4% in the interval from 21,110 to 21,139 ft and from 5.6 to 11.7% between 21,496 and 21,523 ft (Figure 2). Unfortunately, these cores, along with other samples, have been lost.

Recently, however, 13 thin sections made from drill chips were discovered among uncatalogued collections of the California Well Sample Repository in Bakersfield. These samples range from

16,400 to 21,240 feet, and each sample contains chips collected over 20-ft intervals (depths listed for individual samples represent the median depths of the intervals sampled). The interval from 16,400 to 17,120 ft (three thin sections) is part of the lower Temblor/Olcese Formation. Samples from 18,320 to 19,180 ft (nine thin sections) are from the Vedder/Phacoides Formation. The final thin section from 21,230 ft was taken from the Point of Rocks Formation.

METHODS

Each thin section was analyzed using a Zeiss Photomicroscope III, and point counts of constituent grains were collected using an automatic point-counting stage. With one exception, at least 300 points were counted for each thin section (Table 1). As the thin sections were made from drill-chip rather than whole-core samples, larger-scale textural features could not be studied. In addition, features that cause a weakness in the rock matrix (e.g., through-going fractures, large pore spaces) are generally not preserved in this type of sample.

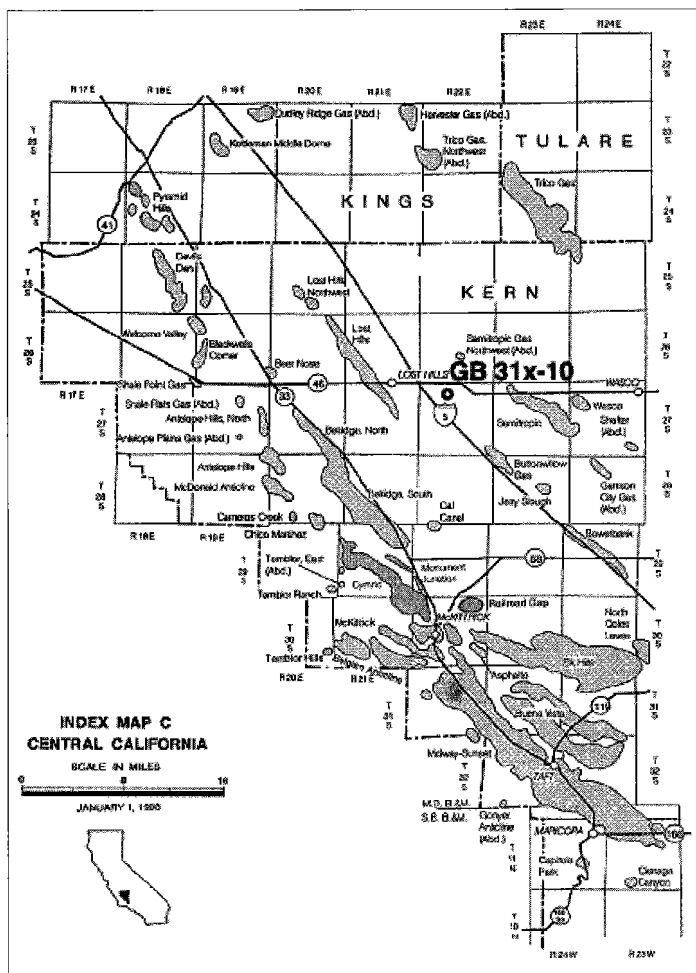


Figure 1. Map showing oil fields in the central San Joaquin Valley and location of Great Basins Petroleum 31x-10 well. Modified from California Division of Oil, Gas, and Geothermal Resources (1998).

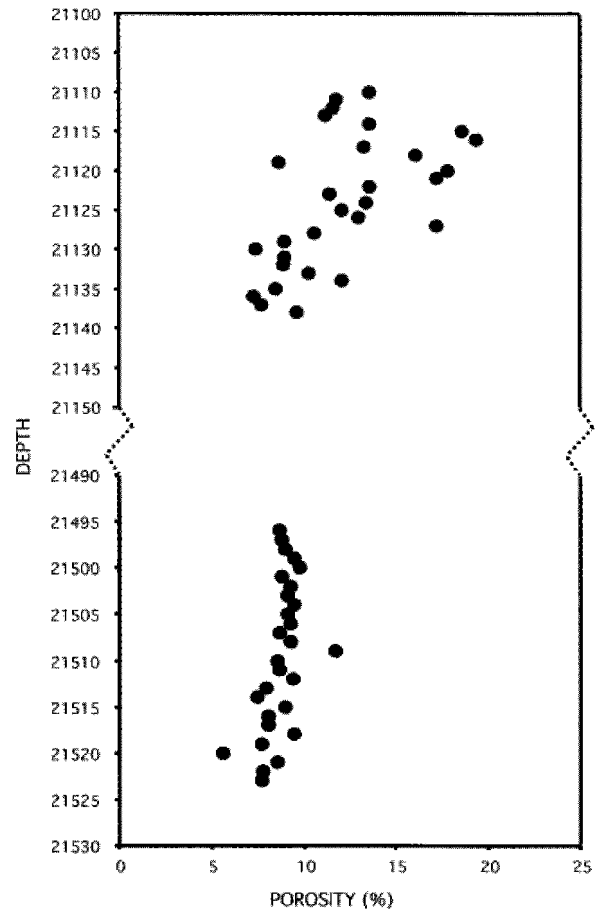


Figure 2. Plot of porosity values for Great Basins Petroleum 31x-10 whole-core samples below 21,000 ft (from data in Cusator [1973]).

Table 1. Point count data for Great Basins Petroleum 31x-10 samples (%).

Rock Name	Depth (ft)	Quartz	K-feldspar	Plagioclase	Volcanic Rock Fragments	Granitic Rock Fragments	Accessory Minerals	Carbonates	Pseudomatrix	Clays	Intragranular Porosity	Intergranular Porosity	Opaques	# Points Counted
arkosic arenite	16,400-20	46.6	25	7.3	3.6	8.8	0	3.6	3.6	0.6	0.6	0.3	0	300
lithic graywacke	16,860-80	23.8	18.5	4.2	19	4.4	0	11	11.3	5.9	1	1.2	0	400
arkosic graywacke	17,100-20	19	16.2	4	11	5.2	0.1	3.7	24.1	7.3	1	2.7	5.7	400
lithic arenite	18,320-40	30.2	11	2.7	29	7	0	7.2	4.8	2.2	0.5	3.7	2.2	400
lithic graywacke	18,340-60	31.7	11.2	7.5	27	3.4	0.1	3.7	11.5	1.5	0	1	1.2	400
arkosic graywacke	18,380-400	33.1	21.1	4.4	16	4.2	0.2	2.8	11.7	2.6	0.2	1.8	1.8	383
arkosic graywacke	18,420-40	26.6	13	7.3	14	5.2	0.2	8.6	18.3	2.6	0	0.3	3.6	300
lithic graywacke	18,500-20	25.3	13	5.6	22	5.6	0.1	1.6	15.6	7	0.3	2	1.6	300
lithic graywacke	18,580-600	30	13.3	5	22	4.9	0	13	5.3	2.6	0	1.3	2.6	300
lithic graywacke	18,640-60	29.3	18	4.3	21	5.6	0.1	5.6	5.6	4.3	0.6	3.3	2	300
lithic graywacke	18,820-40	26.6	12.3	6.6	24	1.9	0.2	8.6	7.6	5	1	2.6	4	300
lithic graywacke	19,160-80	16.6	15	5.5	27	2.1	0.1	9.1	5.7	13.4	1.1	1.5	3.1	252
arkosic wacke	21,220-40	35	23.3	4.3	1.3	11	4	0.3	2	13.6	2.6	1	2	300

RESULTS

The results of our work are summarized in Table 1.

FRAMEWORK COMPOSITION

Framework-grain composition, following the scheme of Dott (1964) as modified by Pettijohn et al. (1987), is shown in Figure 3. The sands are mostly lithic arenites or wackes and contain subequal proportions of quartz, feldspars, and rock fragments (granitic microphanerites and volcanic lithics). Volcanic-lithic grains account for one-third or more of the detrital component in all but the shallowest and deepest samples.

DIAGENESIS

Diagenetic effects can be separated into those that decrease porosity and those that enhance porosity. Physical compaction is the main cause of porosity reduction in these samples, particularly in conjunction with chemical alteration of unstable minerals and glass in volcanic-lithic grains to form pseudomatrix that has been squeezed into surrounding pore spaces (Figure 4). Cementation by carbonates and clays has substantially reduced porosity in many of these samples (Figure 5), accounting for more than 70% of intergranular volume in every sample. Poikilotopic calcite is the most common cement type and also has replaced quartz and feldspars. Clay cements are generally subordinate to calcite, but constitute the dominant cements in three samples (17,110; 18,830; and 19,170 ft). Clays include kaolinite and illite or mixed-layer illite/smectite. Other cements include finely crystalline carbonate (probably calcite) and siderite, which replaced clay rims on some grains (Figure 6).

Diagenetic effects that have enhanced porosity in these samples include dissolution of feldspars and fracturing. Although large through-going fractures are not preserved in drill-chip samples, microfractures are present in many of the samples. In some cases microfractures have been healed during diagenesis (Figure 7), but many late fractures remain open (Figures 8 and 9). Grain dissolution is common and has affected feldspars and volcanic lithics. Late kaolinite cement has precipitated into some pores (Figure 10), but many late dissolution pores are open (Figure 11). Hydrocarbons are present in all samples below 17,000 ft and occupy both intergranular and intragranular pore spaces (Figure 12).

DISCUSSION

The majority of these samples (9 of 13) represent the Phacoides/Vedder interval, and most of the results reported above apply to this interval. The lower Temblor/Olcese interval is represented by three samples that are generally similar to those Phacoides/Vedder samples. The Eocene Point of Rocks Formation is represented by a single sample, so it is impossible to quantitatively compare this unit with overlying sands. However, this sample is significantly different from all of the overlying samples. It contains few volcanic-lithic grains and, therefore, very little pseudomatrix (Figure 13). Only one other sample, the shallowest (16,410 ft) of the Temblor/Olcese samples, is similar in this regard. The Point of Rocks sample differs from the 16,410-ft Temblor/Olcese in that the Temblor sample contains low, but significant, carbonate and very little authigenic clay; whereas, the Point of Rocks sample contains virtually no carbonate and abundant (13%) clay (Figure 14).

The Point of Rocks sample is also unique in that it contains more than twice as much framework-grain-dissolution porosity than any other sample and five times the average for the Temblor/Olcese and Phacoides/Vedder intervals (Table 1). Although no firm conclusions can be drawn from a single sample, the relatively high amount of secondary porosity preserved at great depth in the Point of Rocks sample is intriguing. Certainly this formation is a candidate for additional study.

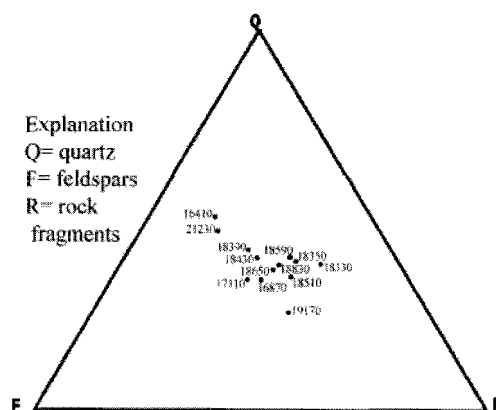


Figure 3. Ternary diagram for Great Basins Petroleum 31x-10 samples following scheme of Dott (1964) and Pettijohn et al. (1987).

Figures 4-12. Photomicrographs of Great Basins Petroleum 31x-10 samples. Figures 4-7 taken in cross-polarized light. Figures 8-13 taken in plane-polarized light. All are 0.75 mm field of view.

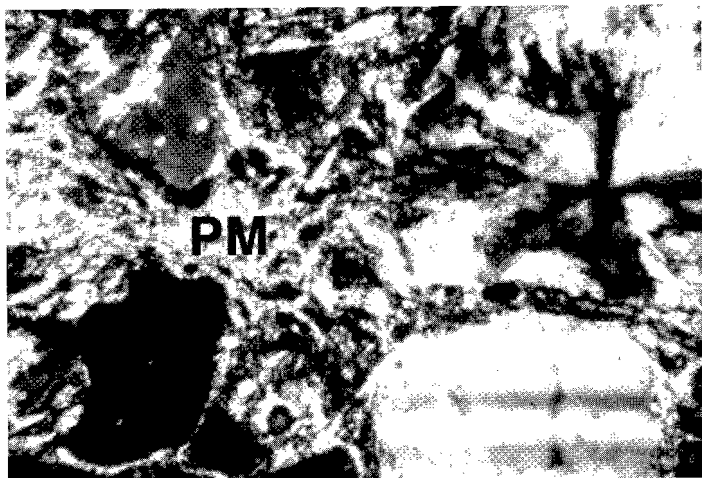


Figure 4. Pseudomatrix (PM) from alteration and compaction of volcanic-lithic grains (18,390 ft).

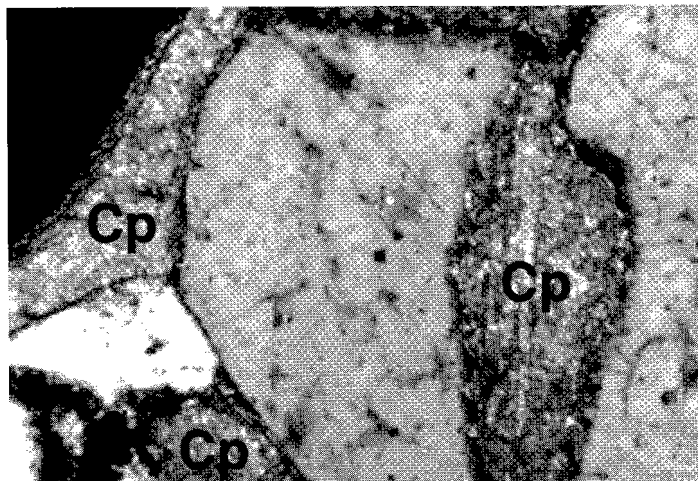


Figure 5. Poikilotopic calcite cement (Cp) (18,830 ft).

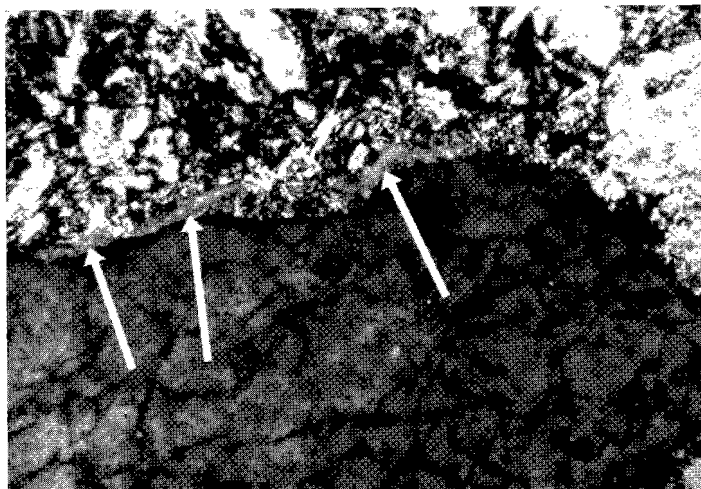


Figure 6. Siderite (arrows) that has replaced clay rim (16,870 ft).

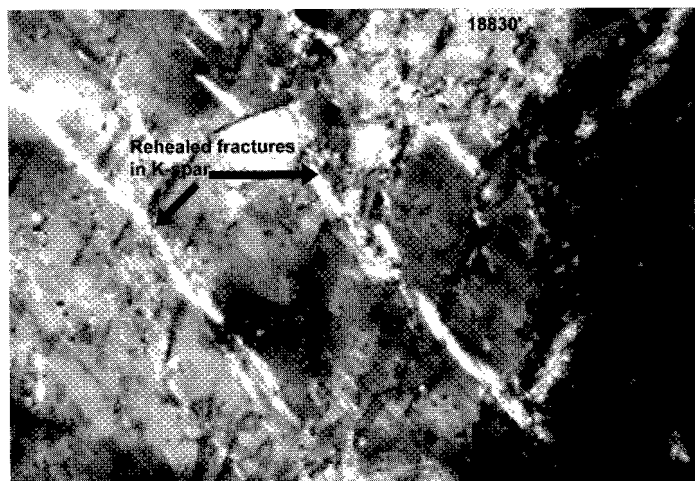


Figure 7. Healed fractures in K-feldspar (18,830 ft).

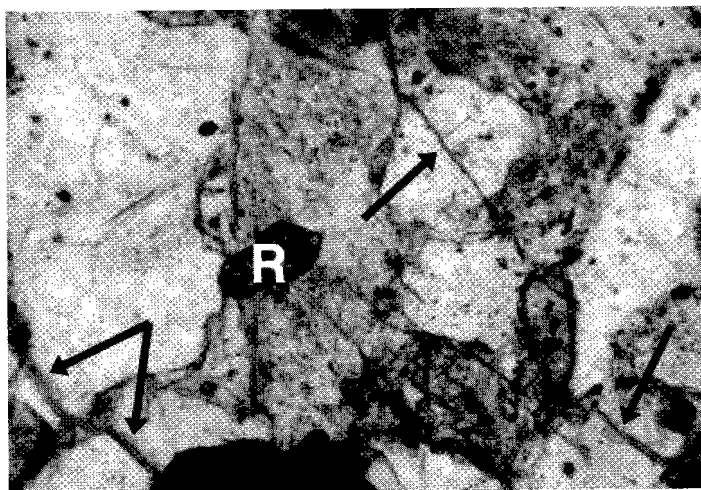


Figure 8. Open late-fracture porosity (arrows) and detrital rutile grain (R) (16,410 ft).

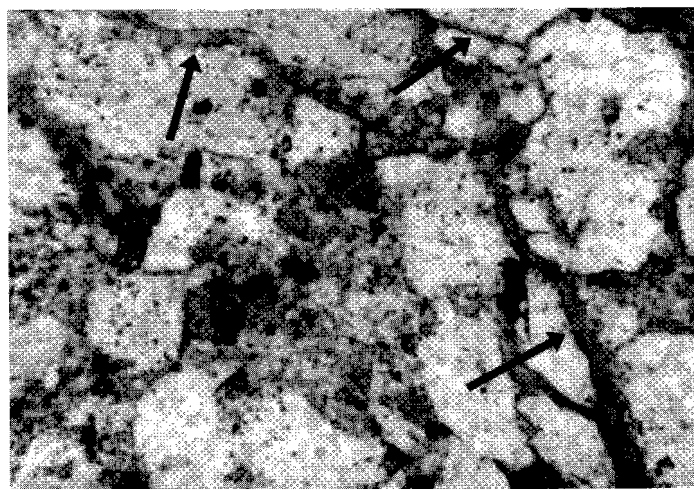


Figure 9. Open late fractures in deepest sample (21,230 ft).

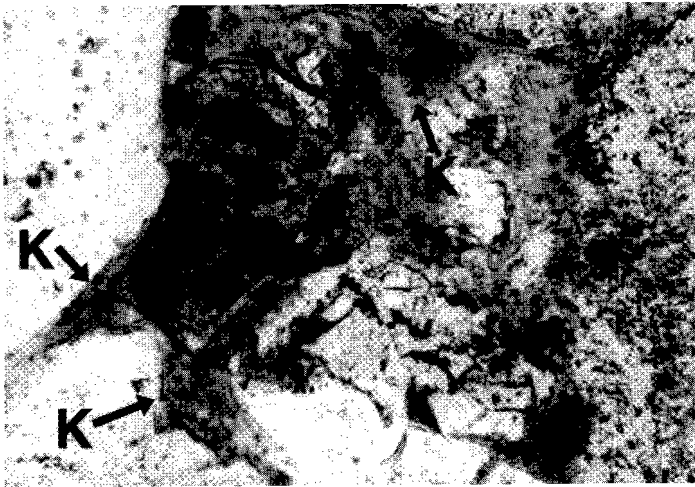


Figure 10. Kaolinite cement (K) filling intergranular pores (18,650 ft).

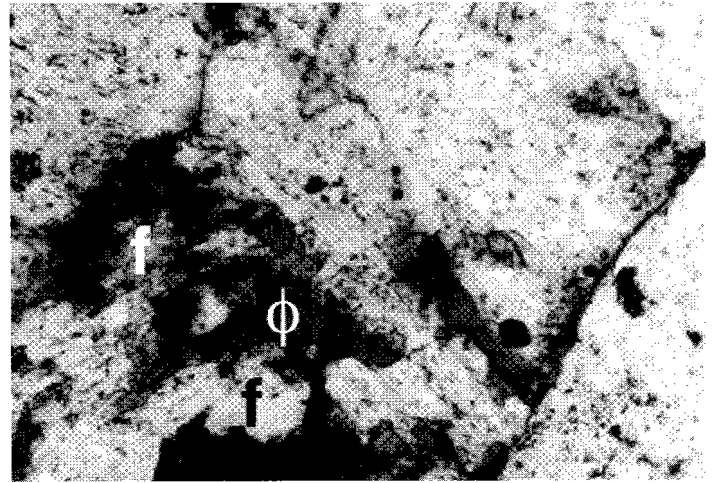


Figure 11. Secondary porosity (Φ) and skeletal remnants (f) of dissolved K-feldspar grain (21,230 ft).

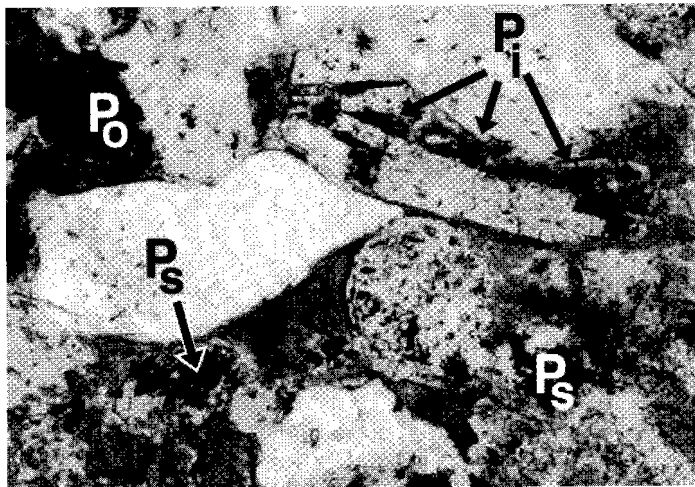


Figure 12. Petroleum in intergranular (P_i), oversize (P_o), and skeletal (P_s) pores (19,170 ft).

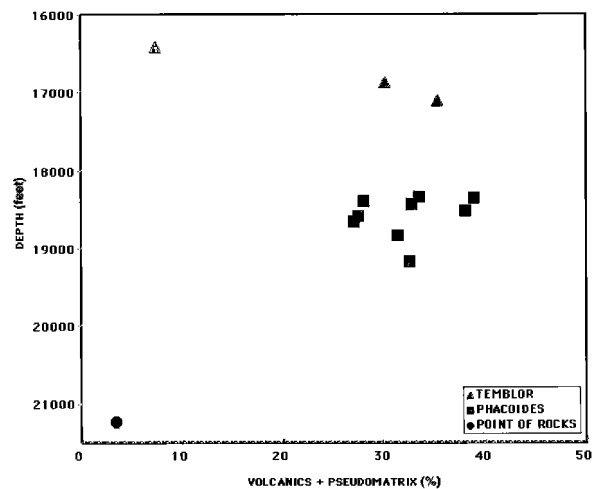


Figure 13. Plot of volcanics plus pseudomatrix versus depth in Great Basins Petroleum 31x-10 samples.

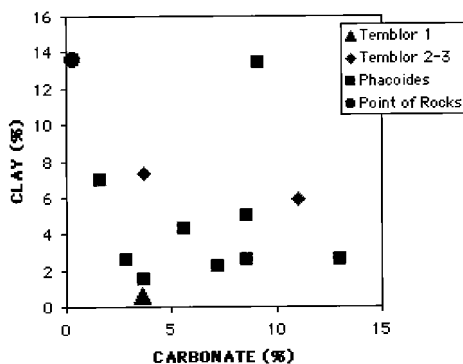


Figure 14. Plot of carbonate versus clay in Great Basins Petroleum 31x-10 samples.

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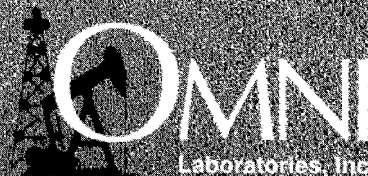
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AAPG Distinguished Lecturer at CSUB

The Student Chapter of AAPG at California State University, Bakersfield, will host a lecture by AAPG Distinguished Lecturer **Cindy A. Yielding** (British Petroleum, Houston, TX), who will present "The History of a New Play: Thunder Horse Discovery, Deepwater Gulf of Mexico." The lecture will be on **April 3, 2003**, at 6:00 p.m.* in the Stockdale Room at the CSUB campus. (*There is a chance that the lecture may be rescheduled for 11:30 a.m.) If you are interested in attending, please contact Lisa Denke at 661-201-7842 or LLDENKE@AERAENERGY.COM to confirm the time.

Directory of California Producers Available

The 2003 edition of the Conservation Committee of California Oil and Gas Producers (CCCOGP) Personnel Directory is now available. The 240-page directory contains listings for all the oil and gas operators in California, along with key personnel, fields of operations, and production statistics. Government agencies that interface with the industry, industry-related associations, and consulting and petroleum-related services also are included in the directory. The cost is \$40 per book, plus a \$2.50 shipping charge and state and local taxes. There is no sales tax for out-of-state sales. Credit card purchases are accepted. To order a copy of the directory, call 916-635-0556 or send a fax to 916-635-0558.

BAPL Charity Golf Classic

The Bakersfield Association of Petroleum Landmen is hosting its 15th Annual BAPL Charity Golf Classic on Friday, **April 11, 2003**, at the Rio Bravo Country Club and would like everyone to participate. There will be a shotgun start at approximately 12:30 p.m., and a barbecue dinner and raffle will be held afterward. This charity event will greatly benefit the Bakersfield Homeless Center. Last year, the BAPL was able to donate \$20,000 to the Center as a result of this event! If you would like to be a participant or sponsor in this event, please contact **Ron Thompson** at 661-205-6091. This event is limited to 144 persons, so prompt registration is encouraged.

PTTC Workshops

For information about the following upcoming workshops and forums of the Petroleum Technology Transfer Council West Coast Resource Center, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

- March 27: *Instrumented Field & Reservoir Definition*
Hyatt Valencia Conference Center, Valencia, CA
- April 17: *Horizontal Well Drilling & Completions in California*
Hyatt Valencia Conference Center, Valencia, CA
- May 22: *Independent Day* (at SPE Western Regional Meeting)
Hilton Hotel, Long Beach, CA
- June 22-27: *COMET Program* (outreach)
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CALL FOR ABSTRACTS

**2003 ALASKA GEOLOGICAL SOCIETY
TECHNICAL CONFERENCE**

WHAT'S NEW IN ALASKA

April 25, 2003 • University of Alaska, Fairbanks

The Alaska Geological Society and the University of Alaska Department of Geology and Geophysics will host the 2003 "What's New in Alaska" Technical Conference, April 25, 2003, in Fairbanks. This is an excellent opportunity to present research and advancements in Alaskan geosciences. Abstracts will be published in an abstracts volume, which will be available at the conference and through AGS publications. The technical program will include invited oral presentations and volunteered poster presentations.

This notice is to advise potential presenters about abstract and poster format requirements:

- Specify title and discipline (for example: mineral resources, petroleum resources, metamorphic petrology, or paleontology).
- Abstract is to be 500 words or less.
- Submit abstract in 12-point Times New Roman and leave 1-inch margins.
- Posters should be designed to fit on a single 4-foot by 8-foot board.

Please join in on this opportunity to update and learn! A digital version of the abstract form is available on the AGS website at www.alaskageology.org.

Deadline for Abstract Submission: March 17, 2003

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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 May & June 2003 issue is April 1, 2003 (no fooling!).

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

March & April 2003 password: tectonic

May & June 2003 password: clastic

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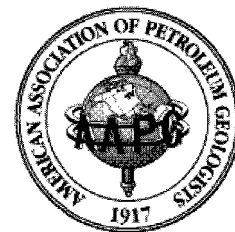


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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

May & June • 2003

MESSAGE FROM THE PRESIDENT: *Some Things Remain the Same*

Times change but, as they say, things remain the same. We still have wars. I'm attempting to write this article while watching bombs fall on Baghdad and listening to a pilot describe the difficulty of making a night landing on a carrier flight deck. Now my neighbor tells me how scary it was to land his F4U Corsair on a carrier flight deck at night 60 years ago in World War II. The technology has changed, but the pilot still has to make the right decisions to get back safely onto the ship. And people still die in war. I pray that by the time you read this, that phase of this conflict will be history with a minimum loss of life on either side.

It occurs to me that some things about our business are not that much different than the fighter pilot landing on an aircraft carrier. Technology and politics have effected profound changes in the upstream end of the petroleum industry; but well-trained, creative geologists are still needed to interpret the data—to recognize why they should explore where no one has gone before or why they should test where everyone has gone and failed. And they will continue to be needed in increasing numbers as far as anyone can see into the future. In his "Report of the Future of Earth Scientists Committee" (*The Delegates Voice*, newsletter for the House of Delegates of AAPG, June 2002), Chairman **Don Lewis** notes that an "average of 200-400 new geoscientists will be needed by the U. S. industry annually for the next 20 years ... 2,000-3,500 worldwide." So while it is unlikely that the ups and downs of this industry will go away, Lewis' committee concludes "there will be a strong demand for petroleum geoscientists for at least the next 40-60 years." Our job is not only to encourage such career choices, but also to take an active role as mentors in their development, both personally and through their association with AAPG and Pacific Section.

There is increasing national interest in well data preservation and the California Well Sample Repository is ahead of the curve in this endeavor. In this issue of the newsletter, repository curator **Frank Charron** reports that, in addition to core samples from nearly 5,000 wells, paleo reports and samples from over 12,000 wells and in the neighborhood of 70,000-100,000 well files, the repository boasts a large collection of reference books, guidebooks, geologic maps, and reports. Especially important, the repository also includes a very helpful on-site geologist in the person of Frank Charron. Check out Frank's article (page 3) and visit him at the repository to learn what he can do for you.

The San Joaquin Geological Society is featured in this month's "Society Spotlight" column (page 9). Read SJGS President **Jaime Roig**'s fascinating article on this local society, which has become a cornerstone of the Pacific Section.

We are in the process of developing a logo for Pacific Section, the only section without one. We think it should outline the area encompassed by Pacific Section, include the founding date, and retain some elements of the national AAPG logo, which we have used for decades. If you have any suggestions for a Pacific Section logo, please e-mail them to me at thopps@ranchoenergyinc.com or mail them to me at Rancho Energy Consultants, Inc., 250 S. Hallock Drive, Suite 201, Santa Paula, CA, 93060.

Our annual convention is a big part of Pacific Section activity, so I am pleased to report that **John Howe** has agreed to serve as General Chairman for the 2004 meeting, which will be held in Bakersfield. John "knows the ropes," has lots of energy and ideas, and will assemble an excellent meeting. In 2005, we will meet jointly with Cordilleran Section GSA in San Jose. **Mel Erskine** has

Continued on page 2

2003 COMBINED MEETING

PACIFIC SECTION AAPG
& WESTERN REGION SPE

Hilton Hotel
Long Beach, California

Technical Sessions May 21-23



— IN THIS ISSUE —

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News From our Member Geological Societies	6
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MESSAGE FROM THE PRESIDENT *Continued from page 1*

accepted the responsibilities of PS-AAPG General Co-Chair for this meeting and is already hard at work. He brings considerable experience to this assignment, and it is clear that he will do a superb job.

Speaking of conventions, the 2003 meeting is just around the corner. Co-Chairs **Dalton Lockman** (PS-AAPG) and **Sam Sarem** (WR-SPE) have put together an exciting meeting. Take a look at the convention material in this issue (pages 10-12); you will recognize it as a meeting that you will definitely want to attend.

I would like to comment on a couple of convention events that will be a little different this year—the All-Convention Luncheon and the Honors and Awards Reception. The All-Convention Luncheon will feature Olympic Gold Medalist

Rafer Johnson speaking from his latest book, entitled "The Best That I Can Be." Tom Brokaw has referred to Mr. Johnson as "an icon of dignity and determination." An engaging speaker, Mr. Johnson's subject of being your best is always stimulating and timely. It is a subject that crosses all walks of life. It will benefit us all.

To accommodate our All-Convention Luncheon program, this year's Pacific Section awards presentations will take place at the Honors and Awards Reception on Thursday evening at 5:00 p.m. Naturally you will enjoy good food, drink, and networking at this event; but more importantly, you will have an opportunity to recognize and honor your peers for their service to you, the membership of Pacific Section. I encourage you to make every effort to attend this important reception. I'll see you there.

—Tom Hopps, President, Pacific Section AAPG



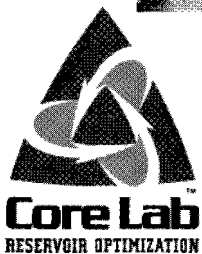
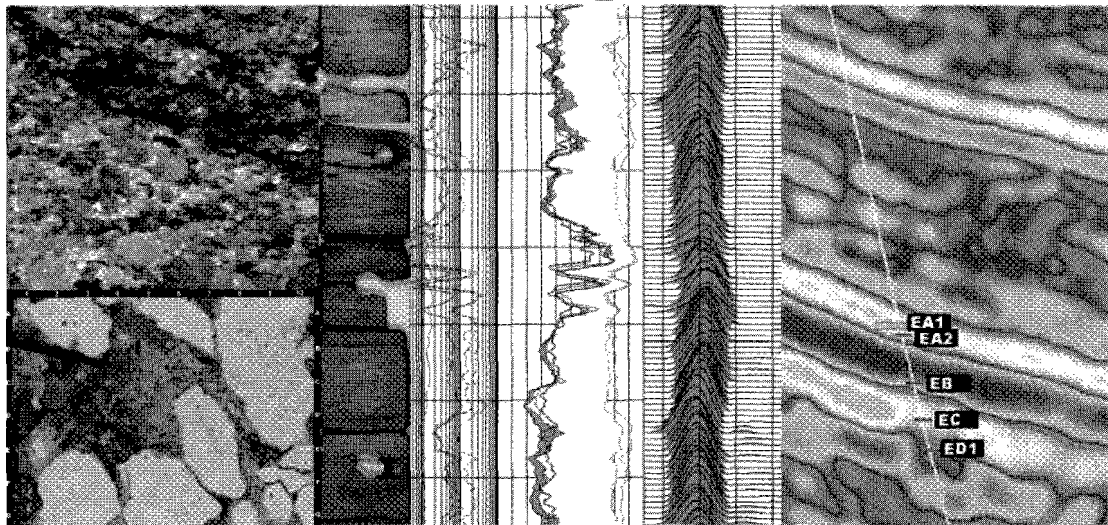
Annual Business Meetings • Pacific Section AAPG • May 23 • Long Beach

All Pacific Section AAPG members are invited to attend the annual open business meetings of the Pacific Section AAPG and Pacific Section AAPG Foundation, which will be held during the 2003 AAPG & SPE Convention in Long Beach. The business meetings will be held at the Hilton Hotel on Friday, May 23:

Pacific Section AAPG Foundation: 3:00 to 4:00 p.m.

Pacific Section AAPG: 4:00 to 5:00 p.m.

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CORE & LOTS MORE! DATA AVAILABILITY AT THE CALIFORNIA WELL SAMPLE REPOSITORY

Frank Charron, Curator, California Well Sample Repository

INTRODUCTION

The California Well Sample Repository was founded in the mid-1970s to house Superior Oil Company's extensive collection of core samples, which was destined for a landfill until a dedicated group of geologists in Bakersfield stepped in to save it. The repository consists of two 6,000 sq ft-buildings and is located on the southern edge of the California State University Bakersfield, (CSUB) campus. It is the only facility of its kind in California open to the public.

CORE SAMPLES

Since its founding, the repository has accumulated core samples from nearly 6000 wells, and the collection continues to grow. Core samples from several additional wells are added each week, as volunteers from the CSUB 60+ Club assist in identifying and preserving more of the Superior core collection. These additional core samples are primarily from early wildcat wells drilled throughout the state. The Superior core collection has samples from wells drilled by most of the operators, both large and small, that were active in California from the late 1920s to the early 1950s, a period of very active exploration. Approximately 4,700 storage crates (actually, old wooden motor oil crates) remain to be cleaned, identified, and preserved. At our current curation rate, these core samples should all be identified and saved in about ten years.

The repository has some whole cores, slabbed cores, and sidewall samples, but the bulk of the samples are referred to as "core chips." These are generally representative pieces of core over specific, regular intervals (e.g., every 10 ft) or samples from different lithologic units. These samples range from loose, friable sands to large pieces of whole core. In most cases, each sample bag contains several pounds of core material, so there should be enough rock to perform lab tests or analyses. It should be noted, however, that the samples have been stored at ambient temperatures for up to 75 years, so some lab tests may be impractical on these core samples.

PALEO REPORTS & SAMPLES

Several years ago, the repository received Unocal's entire micropaleontology report collection, consisting of 27 full file cabinets. This collection includes paleo reports from over 12,000 wells, both onshore and offshore, as well as reports on surface studies from throughout the state. Augmenting the Unocal paleo report collection is the repository's previous collection from nearly 1,000 wells, accumulated over the years through donations of the personal collections of Ed Stinemeyer, Clifford C. Church, Alan Hershey, and others. The repository also has a large collection of mounted micropaleo slides and washed residue samples, as well as microscopes and lights for studying these "bugs."

WELL FILES

Since its founding, the repository has received donations of well files from a variety of sources. In the last few years, the repository's well file collection has expanded rapidly. Most prominent in this expansion was Chevron's 1999 donation of 3,000 boxes of well files. Chevron kept all well files within their producing fields, plus a small buffer zone surrounding their fields,

but donated everything else to the repository. These files contain logs, correspondence, well histories, analyses, and additional data that are not always available from the California Division of Oil, Gas, and Geothermal Resources (DOGGR). Chevron/Texaco subsequently donated an additional 1,200 boxes of files in 2002, after they consolidated the well files of both companies following their merger. In the past year, the repository has also received large well file donations from the estate of Andre Marin, San Joaquin Energy Consultants, and Dr. Robert Yeats, as well as the entire well file collection of PetroData in Sacramento. The repository is also accumulating a complete collection of federal offshore well files from the Minerals Management Service.

OTHER COLLECTIONS

The repository has a complete set of DOGGR maps, as well as a large collection of Petroleum Information (PI) information on microfiche. Over the years, the repository has accumulated a large collection of reference books, field trip guidebooks, and geologic maps. The repository also has nearly complete collections of DOGGR Annual Reports and Summary of Operations books, dating back to 1916. Much of this information has not been cataloged, but is available for browsing. A large collection of geologic reports from Honolulu/Tidewater/Getty is currently being indexed and will be added to the web site catalog list in the near future. The repository also has a collection of Munger Oilgrams and PI/Dwights West Coast Region Reports from 1988 to present. If you are having trouble finding reliable locations for old wells, or need some information on the early production history of a well, the repository may be your salvation, with a collection of over 800 large binders containing scout tickets and initial well reports (IWRs). It may take some digging, but chances are the information you need will be there.

USE OF THE REPOSITORY

The repository is generally open on Mondays, Wednesdays, and Thursdays from 7:45 a.m. to 2:45 p.m. If these hours are not convenient, arrangements can usually be made to open the repository at other times or days, including nights and weekends. The phone number is 661-664-2324 and the fax number is 661-665-6966, but the best way to communicate is through e-mail to fcharron@csub.edu. When requesting any cores, well files, or other information, please provide as much detail as possible in your e-mail, including original operator, location (T-R-Sec), and API number (if known).

Fees for using the repository are nominal and are posted on the repository's web site, which recently changed to www.wellsample.com. The web site also includes catalogs of core samples, paleo reports and samples, and other useful items. Much of this information has been put into a GIS project, which enables users to do spatial queries. This GIS project is only available on computers at the repository at this time, but eventually it will be put onto the web site for easy use by the geologic community. So, check out www.wellsample.com from time to time, or stop by the repository when you have a chance. We are working hard to make it a useful tool for the oil industry and the academic community, and you just might find what you need at the California Well Sample Repository.



INVEST IN THE FUTURE.

The Santa Barbara Museum of Natural History has joined with the Dibblee Geological Foundation, established in 1983 to publish Tom's geologic maps, to create the "Thomas W. Dibblee Geology Center". The Dibblee Geology Center will fulfill the Dibblee Geological Foundation's goal of making the fruits of Tom's lifework accessible to a large number of people, while giving geology a prominent place among the Museum's programs.

Merging the mission of the Museum with that of the Dibblee Geological Foundation, the new Dibblee Geology Center is dedicated to preserving and extending the legacy of Tom Dibblee in the service of geology and the community. The mission of the Dibblee Geology Center is to:

- Publish the remainder of the Dibblee maps
- Promote training in field mapping and public education in geology
- Conduct geologic research in the Tom Dibblee tradition
- Serve the public interest in the area of geologic information

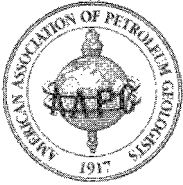
The Dibblee Geology Center at the Museum of Natural History seeks both operational and endowment funding in support of this mission, with the long-term goal of building a \$5 million endowment to ensure stable support. Tom Dibblee himself has designated his estate for this purpose.

First things first! The Dibblee Geology Center is increasing map production to 60 maps a year. In the works right now are 10 maps (13 quads) in the San Joaquin area, 22 maps in the Riverside/Inland Empire area, 4 maps in the Eastern San Gabriel mountains, and 20 maps in the San Luis Obispo area.

Tom Dibblee recently commented that "the new Dibblee Geology Center is the best thing that ever happened to me". Join Tom in supporting Dibblee Map Production at the new Dibblee Geology Center.

For more information, please visit www.sbnature.org/dibblee

Thomas W.
DIBBLEE GEOLOGY CENTER
Santa Barbara Museum of Natural History



PACIFIC SECTION AAPG FOUNDATION

**Encouraging your investment
by matching your donations
to the Dibblee Geology Center.**

The Pacific Section AAPG has supported the Dibblee Foundation since the inception of its map-publishing efforts. Now this effort has become part of the Santa Barbara Museum of Natural History, but the group's charter has not changed. They still plan to publish all of the maps that comprise the life work of Tom Dibblee. And with the team of John Minch, Jason Minch, and Tom Dibblee, they are making great progress.

This work should be encouraged with your donations. In an effort to further encourage donations from our membership, the Pacific Section AAPG Foundation will match the total donation of our membership up to a total of \$5,000.

Please forward your donations to:

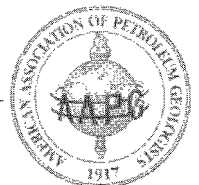
Pacific Section AAPG Foundation
P.O. Box 1072
Bakersfield, CA 93302

Or contact:

Mark Wilson
markwilson@chevrontexaco.com
661-395-6364

Pacific Section AAPG Foundation is a 501(c) 3 corporation.

PACIFIC SECTION AAPG FOUNDATION



Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppca.com



Luncheon meetings are usually held on the third Thursday of the month (except June through August) 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 tentatively scheduled for May 15. For reservations, call the AGS reservation voice line (263-4232) or e-mail Art Banet (arthur.banet@mms.gov) before noon on Monday before the meeting.

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Philip Kinney
805-230-1266 ext. 224



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will be held at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura until further notice (check the CGS website for details). 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 \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. Upcoming meetings are scheduled for May 20 and June 17. Reservations can be made by e-mail to cgs.rsvp@sbcglobal.net, by phone (to **Dave Brown**) at 805-653-7975, or by fax at 805-653-7452. Reservations are due by 4:00 p.m. on Friday before the meeting.



CGS has launched its CGS History Project and is seeking pictures, stories, old meeting notices, and any other information documenting the history of CGS from the last century. If you have a piece of CGS history to share, contact CGS Historian **Donna Lee Simmons** at coastgeo@pacbell.net. Material can be submitted electronically, or CGS will scan paper items and promptly return them.

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 usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. The next meeting is scheduled for June 26. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



LABGS along with the L.A. Basin Section of the Society of Petroleum Engineers will host the 2003 Pacific Section AAPG Convention and Western Regional SPE Meeting. The joint meeting will be held at the Hilton Hotel in Long Beach, California, with technical sessions from May 21 to May 23. For information, see www.psaapg.org/convent.html.



LABGS will sponsor two field trips during the 2003 joint Pacific Section AAPG & Western Region SPE meeting. One trip will examine the oil fields along the Newport-Inglewood Fault trend. Another trip will view the turbidite outcrops at San Clemente State Beach. For more information, see LABGS's website at www.labgs.org or the convention website at www.psaapg.org/convent.html.



LABGS is pleased to announce that **Mike Fillipow**, science teacher for grades 11 and 12 at Long Beach Polytechnic High School, is the 2003 winner of LABGS's 2003 competition for Excellence in the Teaching of Natural Resources in the Earth Sciences. The goals of his geology course, which is open to all students at the school, are to introduce geology to the students and provide an appreciation for the earth and its resources. Mike will receive \$250 to use in the school's science program or to attend science conferences or training seminars. He will be LABGS's candidate for the Pacific Section AAPG 2003 competition for Teacher of the Year.

Northern California Geological Society

www.ncgeolsoc.org

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except June through August) 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). Upcoming meetings are scheduled for May 28 and June 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).



NCGS will hold a field trip to the Diablo Antiform-Diablo Range Intersection area, led by Consultant **Ron Crane**, on May 10. Another trip, to the Rodgers Creek-Maacama Step-over Area and led by **Bob McLaughlin** (USGS), **Dave Wagner** (California Geological Survey), and others, will take place on June 6-8. For more information, contact NCGS Field Trip Coordinator **Jean Moran** at jeanm@stetsonengineers.com.

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Jim Jackson
503-771-3887



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The next meeting is scheduled for May 9. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



NWEA is planning its Fall Symposium, which will be held in Bend, Oregon, in September. Look for details in the coming months.

Sacramento Petroleum Association

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

Contact: Rick Blake
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. Upcoming meetings are scheduled for May 21 and June 18. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. Anyone interested in giving a presentation at a monthly meeting should contact **Rick Blake** at 925-422-9910 or blake2@lnl.gov.



The April 5 SPA/Calpine field trip, entitled "The Geysers: The World's Largest Geothermal Energy Source, Middletown, California," was a great success. Twenty-two participants enjoyed a day of learning about geothermal field operations, geology, well fields, power plant operations, energy distributions systems, and more. Potential SPA field-trip themes/locations this Fall will be "California Gold Country, A tour of the 16:1 Gold Mine," "Wild Goose Gas Storage Field," "Great Valley Sequence, West Side Sacramento Valley," and "Sutter Buttes Geologic Field Trip." Look for details in the coming months.



SPA and the California Natural Gas Producers Association (CNGPA) will host their 2nd Annual Golf Tournament on May 30. The event will be held at the Yolo Fliers Club (17980 County Road 94B, Woodland, CA). Reservations must be made by May 15. For an application or more information, contact **Karen Smith** at 916-859-4710.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Jaime Roig
661-665-5942



Dinner meetings are usually held on the second Tuesday of the month (except July through September) 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. Upcoming meetings are scheduled for May 13 and June 10. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.



SJGS will have summer networking events at Lengthwise Brewing Co. (on Schirra Court) in Bakersfield. The first event is tentatively scheduled for June 26 and will be a joint session with SPE. Check the SJGS website at www.sjgs.com for more details.

MAY & JUNE 2003

May 9 — NWEA Monthly Luncheon Meeting
Location: Multnomah Athletic Club, Portland
Speaker: Ron Gulburg and Todd Thomas
Title: Recent Developments at the Mist Gas Field

May 10 — NCGS Field Trip
Location: Diablo Antiform-Diablo Range Intersection
Leader: Ron Crane (Consultant)
 For information, contact NCGS field trip coordinator Jean Moran at jeanm@stetsonengineers.com.

May 11-14 — AAPG Annual Meeting
Location: Salt Lake City
Theme: Energy, Our Monumental Task
 For information, see www.aapg.org/meetings/slc03/.

May 13 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield
Speaker: TBA

May 15* — Alaska Geological Society Luncheon Meeting
Location: Anchorage Hilton, Anchorage
Speaker: Jeff Trop (Bucknell University)
Title: Wrangellia/Mesozoic Basins

May 20* — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA

May 21 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: David Smith (Dyna-coil)
Title: A New Method for Incrementing Gas Production in Mature Gas Assets

May 21-24 — PS-AAPG & WR-SPE Convention
 Hosted by LABGS
Location: Hilton Hotel, Long Beach
Theme: L.A. Basin: Original Urban Oil Field Legend
 For information, see www.psaapg.org/convent.html.

May 24 — A Day in the Field with Tom Dibblee
Location: Glendora/Baldy Village Area
Leaders: Tom Dibblee, Jon Nourse, Peter Weigand, and John Minch
 For information, contact John Powell at 805-987-5846 or dibbleemap@adelphia.net.

May 28 — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: Ian Carmichael (University of California Berkeley)
Title: TBA

May 30 — SPA/CNGPA 2nd Annual Golf Tournament
Location: Yolo Fliers Club, Woodland
 For information, contact Karen Smith at 916-859-4710.

June 6-8 — NCGS Field Trip
Location: Rodgers Creek-Maacama Step-over Area
Leaders: Bob McLaughlin (USGS), Dave Wagner (California Geological Survey), and others
 For information, contact NCGS field trip coordinator Jean Moran at jeanm@stetsonengineers.com.

June 10 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield
Speaker: TBA

June 17* — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA

June 18 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: TBA

June 25 — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: Carol Prentice (USGS)
Topic: San Andreas Fault

June 26 — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Centre, Long Beach
Speaker: TBA

June 26* — SJGS Networking Event
Location: Lengthwise Brewing Co., Bakersfield
 For information, see www.sjgs.com.

UPCOMING EVENTS

- July 16* • SPA Monthly Luncheon Meeting
- August 20* • SPA Monthly Luncheon Meeting

* Tentative

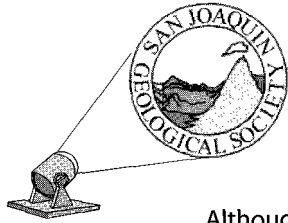


See you in Long Beach!

DAVID B. DEL MAR
Consulting Petroleum Geologist
California Registered Geologist #634
Development – Thermal EOR – Property Reviews

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 Los Angeles, CA 90026

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SOCIETY SPOTLIGHT: *San Joaquin Geological Society*

The San Joaquin Geological Society (SJGS) is an organization of geologists and geophysicists that disseminates geologic information and promotes professional and social activities. On the second Tuesday of the month (October through June), we gather at the American Legion Hall in Bakersfield for dinner, libations, fellowship, and a technical geological presentation.

Although the early history of the SJGS is shrouded in the mists of time, the society probably started in Bakersfield not long after 1925 as an early chapter of the newly formed Pacific Section of AAPG. By the late 1930s, the SJGS was in full swing when as young geologists Ed Stinemeyer, Russ Simonson, and others came to Kern County. Exciting new seismic discoveries on the Bakersfield Arch were the hot topics of discussion at early SJGS gatherings. World War II called many members off to war, but soon after the war ended, monthly dinner meetings resumed at the El Tejon Hotel in downtown Bakersfield. When the El Tejon changed its "all you can drink for \$1.00" policy in the mid-1960s, the meetings moved to the American Legion Hall, which in those days was located near the Bank of America on Truxtun Avenue. A few years later, the meetings moved with the Legion Hall to 2020 "H" Street, where they are still held today.







Current membership is above 300, with 100 or more attending our dinner meetings. Out-of-town attendees (they come too often to be called visitors) are a welcome addition to our meetings. Pacific Section members from Los Angeles, Ventura, and the central coast regularly schedule business trips to coincide with our dinner meetings. We also host geology students from nearby Cal State Bakersfield at all of our events. Meetings, field trips, short courses, seminars, and workshops are run on a breakeven-cost basis. The society's major fundraising event is the annual Fall BBQ and Golf Tournament, usually held the first Friday after Labor Day. Proceeds from this event along with Pacific Section dues and Convention revenue allow the SJGS to donate annually to the California Well Sample Repository, the Kern County Museum Oil Exhibit, and other petroleum and geology-related activities.

We are currently preparing for a Fall field trip and hosting the 2004 Pacific Section Convention.

If you're in Bakersfield on the second Tuesday of the month, stop by and join us for dinner. Hope to see you all soon.

—Jaime Roig, *President, San Joaquin Geological Society*

GENERAL FACTS ABOUT CALIFORNIA'S UPSTREAM OIL AND GAS INDUSTRY

-  The latest information available shows that the upstream (production and exploration) oil and gas industry directly and indirectly employs over 110,000 people and annually generates over \$400 million in royalty payments and tax revenue.
-  California has approximately 45,000 producing oil and natural gas wells.
-  The upstream oil and gas industry is highly regulated, with some 28 federal, state, regional, and local agencies having review and oversight responsibilities. Thirty-five major federal and state regulatory statutes, and many more local and regional ordinances and rules, govern industry activities in California.
-  California is the fourth-largest oil-producing state in the nation. Only Louisiana, Texas, and Alaska outrank it. Twenty-nine California counties produce some oil or gas. More oil is produced in Kern County than in Oklahoma, the fifth-largest producing state.
-  There are approximately 400 active independent oil and gas producers operating throughout California. Independents predominate in every producing oil and gas basin outside of Kern County, and they produce 36% of California's crude oil and 15% of the natural gas consumed in California. Independent producers are increasingly important to a healthy national domestic industry, too. Independents drill 85% of the new wells in the United States, produce 65% of the country's natural gas, and produce 40% of the oil (60% in the Lower-48 states).
-  California is an energy island. The state uses almost every drop of oil and natural gas it produces, and it must import from other sources. *Editor's note: The March 24, 2003, Bakersfield Californian reports that the amount of oil California receives from foreign sources has steadily increased from 43,356,000 barrels ten years ago to 191,843,000 barrels in 2001.*

—Dan Kramer, who was CEO of the California Independent Petroleum Association (CIPA) at the time of writing, provided this information. CIPA represents independent producers of oil and natural gas and the companies that provide services and supplies to the industry. CIPA is a 501 (c) 6, nonprofit, nonpartisan trade association that has approximately 400 members, almost half of which are producers. CIPA provides legislative and regulatory advocacy on behalf of the interests of its membership before the California State Legislature, the U.S. Congress, and numerous federal, state, and local regulatory agencies.



Come Back to the Beach!

On behalf of the Los Angeles Basin Section of SPE, the Los Angeles Basin Geological Society, and the 2003 Convention Committee, we extend a sincere invitation to you to actively participate in the 2003 Combined Meeting of the **Pacific Section of the American Association of Petroleum Geologists** and the **Western Region of the Society of Petroleum Engineers** in Long Beach, California, May 19 to May 24. This event is the third time the WR-SPE and PS-AAPG have combined forces to provide a multidisciplinary forum for the exchange of engineering and geoscience technologies and best practices. It is our hope that this meeting will be a time to rejuvenate your thinking about petroleum engineering and the geosciences, renew acquaintances, honor your profession and its special members, and get excited about the future of our industry.

The Long Beach Hilton Hotel provides the perfect site for the meeting—keeping technical sessions, exhibits, and special events all under one roof. The goal of the convention committee is to optimize the time available to provide a maximum amount of information, education, and excitement at a reasonable price. Your advance registration fee will include several events that you won't want to miss: a seat at the All-Convention Luncheon, your choice of a ticket to the WR-SPE Award Luncheon or the PS-AAPG Honors & Award Reception, and admission to the Wednesday-night Icebreaker and Friday Exhibit Luncheon.

Our convention theme, **L.A. Basin: Original Oil Field Legend**, highlights the heart of several planned technical sessions, which will disseminate information that can be applied to the entire Pacific section and Western region—parallel development of subsurface and surface resources in difficult environments.

The Technical Program and Education Committees have compiled a strong blend of presentations, poster sessions, panel discussions, short courses and field trips covering a broad range of topics. The meeting will kick off with a wide variety of excellent field trips and timely short courses followed by three full days of technical sessions (including over 160 technical papers) and a day dedicated to Independents, officiated by the PTTC.

You can find all the convention information on the convention website at www.psaapg.org/convent.html.

Dalton Lockman
General Co-Chair
Pacific Section AAPG

A. M. Sam Sarem
General Co-Chair
Western Region SPE

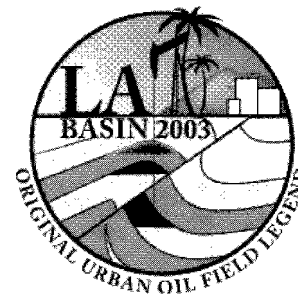


Schedule of Events

2003 COMBINED MEETING

PACIFIC SECTION AAPG & WESTERN REGION SPE

HILTON HOTEL • LONG BEACH, CALIFORNIA



Date, start, and end of major events shown below.

Monday, May 19

9:00 a.m.	5:00 p.m.	Short Courses & Field Trips Keyword-less Simulation Workflows— Day 1, Short Course #1
9:00 a.m.	5:00 p.m.	Estimating Reserves and Economics Using PEEP—Day 1, Short Course #2
9:00 a.m.	5:00 p.m.	Well Performance and Production System Analysis Using PIPESIM—Short Course #3
9:00 a.m.	5:00 p.m.	Using Core Data in Formation Evaluation—Short Course #8
8:00 a.m.	5:00 p.m.	Channelized Turbidite Systems of the Miocene Capistrano Fm.—Field Trip #1

Tuesday, May 20

9:00 a.m.	5:00 p.m.	Short Courses & Field Trips Keyword-less Simulation Workflows— Day 2, Short Course #1
9:00 a.m.	5:00 p.m.	Estimating Reserves and Economics Using PEEP—Day 2, Short Course #2
9:00 a.m.	12:00 p.m.	Environmental Forensics—Short Course #4
1:00 p.m.	5:00 p.m.	Structural Imaging and Balanced Cross Sections—Short Course #5
9:00 a.m.	5:00 p.m.	Integrated Formation Evaluation— Short Course #6
9:00 a.m.	5:00 p.m.	Practical Aspects of PVT Data Analysis for Black Oil—Short Course #7
8:00 a.m.	5:00 p.m.	History of Oil Along the Newport- Inglewood Fault Trend—Field Trip #2
12:00 p.m.	9:00 p.m.	Exhibit Set Up
3:00 p.m.	9:00 p.m.	Registration

Wednesday, May 21

7:00 a.m.	7:00 p.m.	Technical Sessions & Exhibits Registration
7:00 a.m.	8:00 a.m.	Speaker / Judges Breakfast
8:00 a.m.	11:30 a.m.	Exhibits Open
8:00 a.m.	11:30 a.m.	Technical Sessions—5 Concurrent Sessions
8:30 p.m.	11:30 p.m.	SPE Student Paper Session
9:00 a.m.	12:00 p.m.	THUMS Island Tour / Island White
11:40 a.m.	1:20 p.m.	Western Region SPE Honors and Awards Luncheon
11:40 a.m.	1:20 p.m.	AAPG Division of Professional Affairs Luncheon
1:30 p.m.	5:00 p.m.	Exhibits Open
1:30 p.m.	5:00 p.m.	Technical Sessions—6 Concurrent Sessions
1:30 p.m.	5:00 p.m.	Poster Sessions
5:00 p.m.	7:00 p.m.	Exhibit / Icebreaker Reception
7:00 p.m.	9:00 p.m.	SPE Student Paper Awards Dinner

Thursday, May 22

7:00 a.m.	5:00 p.m.	Technical Sessions & Exhibits Registration
7:00 a.m.	8:30 a.m.	AAPG Delegates Breakfast
7:00 a.m.	8:00 a.m.	Speaker / Judges Breakfast
7:30 a.m.	4:30 p.m.	FSEA - WR-SPE / PS-AAPG Energy and Petroleum Teachers Workshop
8:00 a.m.	11:30 a.m.	Exhibits Open
8:00 a.m.	11:30 a.m.	Technical Sessions—6 Concurrent Sessions
8:00 a.m.	11:30 a.m.	Poster Session
9:00 a.m.	12:00 p.m.	THUMS Island Tour / Island Grissom
11:40 a.m.	1:20 p.m.	All-Convention Luncheon
1:30 p.m.	5:00 p.m.	Exhibits Open
1:30 p.m.	5:00 p.m.	Technical Sessions—6 Concurrent Sessions
5:00 p.m.	6:30 p.m.	Pacific Section AAPG Honors and Awards Reception

Friday, May 23

7:00 a.m.	5:00 p.m.	Technical Sessions & Exhibits Registration
7:00 a.m.	8:00 a.m.	Speaker / Judges Breakfast
8:00 a.m.	11:20 a.m.	Exhibits Open
8:00 a.m.	11:30 a.m.	Technical Sessions—6 Concurrent Sessions
8:00 a.m.	11:30 a.m.	Poster Session
9:00 a.m.	12:00 p.m.	THUMS Island Tour / Island Freeman
11:30 a.m.	1:30 p.m.	Exhibit Luncheon
1:30 p.m.	4:00 p.m.	Technical Sessions—5 Concurrent Sessions
2:00 p.m.	6:00 p.m.	Exhibits Take Down
3:00 p.m.	5:00 p.m.	Pacific Section AAPG Foundation and Pacific Section AAPG Annual Business Meetings

Saturday, May 24

7:00 a.m.	5:00 p.m.	Field Trip A Day in the Field with Tom Dibblee— Field Trip #3
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See you in Long Beach!

Technical Program Summary

2003 COMBINED MEETING

PACIFIC SECTION AAPG & WESTERN REGION SPE

HILTON HOTEL • LONG BEACH, CALIFORNIA

Technical Sessions May 21-23



Geoscience Technical Sessions

Geoscience Technical Chair:
John Cooper (California State University Fullerton)

Geoscience / SPE Poster Session Chair:
Terry Thompson (ChevronTexaco)

SPE Technical Sessions

SPE Technical Program Chair:
Glenn Swanson (Signal Hill Petroleum Company)

SPE Technical Program Vice Chair:
Rick Finken (Consultant)

Session titles, chair(s) or moderator(s), and sponsor(s) are noted below. Final program is subject to change.

Details regarding sessions, papers, and abstracts are available on the website at www.psaapg.org.

Meeting Room	Wednesday, May 21		Thursday, May 22		Friday, May 23	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
Atlantic	High-resolution Imaging: Oil Fields and Faults B. Paulsson SEG	Drilling/Facilities M. Harr SPE	Environ. Geology in the Petroleum Industry: New Ideas, New Strategies S. Testa JOINT	SPEE Panel Discussions R. Finken & D. Gold SPEE	Reservoir Engineering E. Mayer SPE	Academic/Research Innovations J. Torabzede SPE
Pacific	Production Engineering S. Hara SPE	Stratigraphic Applications to Solving Groundwater Res. Issues R. Blake & K. Ehman DEG	Papers Independents Day I. Ershaghi PTTC	Panel Independents Day I. Ershaghi PTTC	Tectonics and Sedimentation: An Integrated Approach M. Sullivan SEPM	Petroleum-related Activities in the L.A. Basin R. Suchsland AAPG
International 4	The California Continental Margin: Active Tectonics, Structural Evolution, and Fluid Flow M. Legg & P. Eichhubl AAPG		Management Panel: Perspectives on Critical Industry Issues B. Brauer JOINT	Environmental/Property Conversion P. Gorski JOINT	Neotectonics and Geologic Hazards of Southern California C. Walls & E. Gath AAPG	
International 5	Geological, Geophysical, and Petroleum Engineering Aspects of Deep-water Deposits T. Nilsen, D. Miller & H. Camacho AAPG		The Monterey Revisited: Where Are We Now? J. Schwalbach & R. Behl AAPG		Logging Today S. Grayson & D. Julander SPWLA	
Catalina		Reservoir Engineering California S. McGurk SPE	Recent Advances at Elk Hills: Marrying Geology with Technology B. Countryman & B. Long AAPG		San Joaquin Engineering J. Jones SPE	Fracturing M. Bruno SPE
Caribbean	Geoscience Perspectives R. Finken & V. Bust JOINT	Poster Session T. Thompson JOINT	Poster Session Undergraduate Research in Sedimentary Geology S. Davies & M. Caputo SEPM	Contributions to Lower Pz Great Basin Strat.: Symp. in honor of J.Cooper S. Finney SEPM	Poster Session Tectonics, Fluids, and Sedimentation T. Thompson AAPG	



Joint Geoscience and Engineering Sessions (SPWLA, DEG)



Geoscience Sessions (AAPG, SEPM, SEG, DEG)



SPE Engineering Sessions

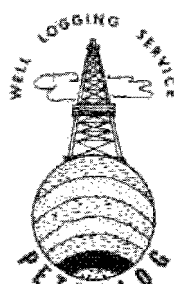


PTTC Geoscience and Engineering Sessions (PTTC, SPEE)

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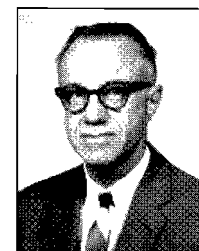
NEW & REINSTATED MEMBERS — **Hana Baker**, ChevronTexaco, Bakersfield, CA • **Benjamin Barnes**, Envirogenesis, Inc., Newport Beach, CA • **Richard Cardwell**, ChevronTexaco, Alamo, CA • **Bellatrix Castelblanco-Torres**, ChevronTexaco, Bakersfield, CA • **Eugene R. Erwin**, Self-employed, Bakersfield, CA • **Ken R. Frost**, Berry Petroleum Co., Bakersfield, CA • **John H. Harris**, Numeric Solutions, Ventura, CA • **Dwight E. Lee**, Oxy of Elk Hills, Bakersfield, CA • **Manuel M. Saavedra**, Monterey County Water Resources Agency, Salinas, CA • **Cathleen Zeleski**, California State University Bakersfield, Costa Mesa, CA

IN MEMORY — **Richard Haines**, Ventura, CA (February 16, 2003) • **George Wissig**, Costa Mesa, CA (April 2, 2003)

RICHARD B. HAINES

1908-2003

Richard B. "Dick" Haines, 94, passed away on February 16, 2003. He was born in Kansas City, Missouri, on September 27, 1908. He graduated from UCLA in 1931 with a major in geology. Upon graduation, Dick found that jobs in geology were practically nonexistent. He reflected his resourcefulness by working in the property department of various movie studios, mainly MGM. He even tried gold mining, bill collecting, and social work. In 1935, Dick worked in the testing laboratory of the U.S. Engineers Office in Los Angeles. This was followed by a job as a surveyor for Rieber Laboratory in San Modesto, California.



In 1937, Dick began his career of 36 years with Continental Oil Company as field geologist. Successive advancements followed, with positions in Bakersfield and Ventura between 1944 and 1953. In 1953, he was promoted to Los Angeles as Regional Geologist for Continental's Western area, which included California, Nevada, Oregon, Washington, and Alaska. In 1963, Dick was transferred to Ventura as Division Geologist of Continental's Mountain Region.

In 1962, Dick was President of the Pacific Section of the American Association of Petroleum Geologists. This was a reward for his many years of service to the Association. He served in numerous positions, including Coastal Representative, District Representative, Treasurer of Pacific Section AAPG in 1960, and Editor of *Pacific Petroleum Geologist Newsletter* in 1965.

He is survived by his wife of 65 years, Aileen, his son Robert, and daughter Joan Fill.

—Joan Fill

Memorial notices, articles, and photographs may be sent to the Editor by family or friends of Pacific Section AAPG members. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.



2003 COMBINED MEETING

PACIFIC SECTION AAPG
& WESTERN REGION SPE

Hilton Hotel
Long Beach, California

Short Courses

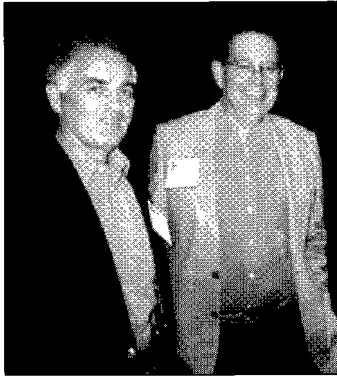
- #1 Keyword-less Simulation Workflows May 19-20
- #2 Estimating Reserves and Economics Using PEEP May 19-20
- #3 Well Performance and Production System Analysis Using PIPESIM May 19
- #4 Environmental Forensics May 20
- #5 Structural Imaging and Balanced Cross Sections May 20
- #6 Integrated Formation Evaluation May 20
- #7 Practical Aspects of PVT Data Analysis for Black Oil May 20
- #8 Using Core Data in Formation Evaluation May 19

Field Trips

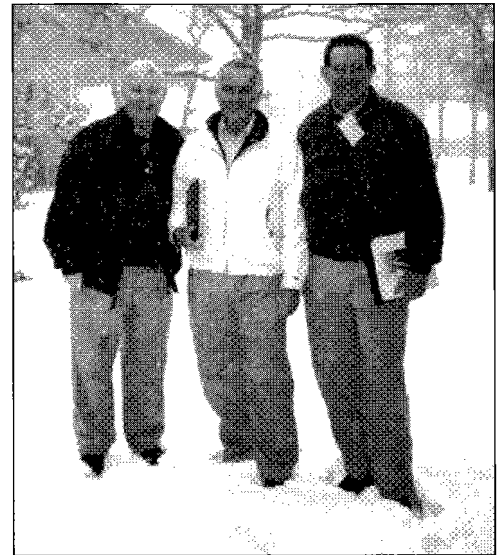
- #1 Channelized Turbidite Systems of the Miocene Capistrano Fm. May 19
- #2 History of Oil Along the Newport-Inglewood Fault Trend May 20
- #3 A Day in the Field with Tom Dibblee May 24

Pacific Section AAPG Representatives in Action . . .

(photos courtesy of Mark Wilson and Bob Lindblom)



President-Elect **Allen Waggoner** (left) and President **Tom Hopps** represented the Pacific Section Executive Committee at the 22nd Annual AAPG Leadership Conference in Tulsa in late February. Pacific Section members **Bob Lindblom** and **Don Lewis** also attended.



Left to right: **Bob Lindblom, Allen Waggoner,** and **Tom Hopps** in deep snow (over their shoe tops) for California boys at the AAPG Leadership Conference in Tulsa.



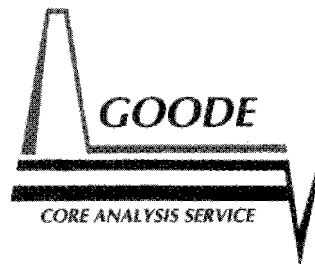
Left to right: Pacific Section AAPG Foundation Trustees **Tom Hopps, Mark Wilson, Harold Syms, Donna Thompson, Bob Lindblom,** and **Bob Countryman.** Their March 11 Foundation Trustee meeting was held at the new ChevronTexaco Energy Center office building in Bakersfield.

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Data Determines Direction.

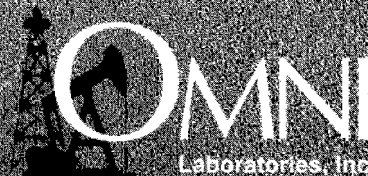
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THE SEDIMENTARY ORIGIN OF THE RIDGE BASIN, SOUTHERN CALIFORNIA

Summary of a Presentation to the Northern California Geological Society

NCGS members got an interesting glimpse of the genesis of a small, terrestrial, sedimentary basin at the March 26, 2003, NCGS meeting. The speaker was **Dr. Morgan Sullivan** of California State University Chico, and he talked about **"Fluvial-Deltaic Cyclicity, Ridge Basin, Southern California: Evidence for Kinematic Cyclostratigraphy."** If the name seems familiar, it might be because Morgan is the son of NCGS Past President **Ray Sullivan**, a long-time faculty member at San Francisco State University. Both Ray and Morgan are proponents of sequence stratigraphy, a discipline used to interpret complex sedimentary strata that is used as an exploration tool by the oil industry. It should be noted that, in spite of the negative press the oil industry has received over the years for its environmental practices, it has made outstanding contributions to the fields of sedimentology, sedimentary petrology, structural geology, and stratigraphy. Many sedimentary terrains around the world would be much less well understood if it were not for the mapping and subsurface work done by oil companies. Much of the complex geology of the Los Angeles basin and the Ventura channel was interpreted by petroleum geologists.

The Ridge basin was carefully studied by Exxon in the early 1990s because it had very well-exposed outcrops, and its stratigraphic features, mostly of terrestrial origin, had application to marine basin evolution. Morgan and NCGS colleague Kenn Ehman of Skyline Ridge, Inc., were employed by Exxon's Clastic Facies Research Group at this time and together studied the basin and its sediments to unravel its stratigraphic history. Kenn and some of his Exxon colleagues had previously collaborated with the dean of Ridge basin geologists, University of California Santa Barbara, professor John Crowell, who did most of the early work in this area.

The Ridge basin, a popular field site for UCSB geology students, is an asymmetrical Neogene (Miocene-Pliocene) pull-apart basin located at a serpent-like bend in the San Gabriel-San Andreas faults systems in the Transverse Ranges north of Los Angeles. The field area lies across I-5 in the Grapevine. It is 30 to 40 km long by 6 to 15 km wide—narrow enough to see actual stratigraphic changes across the synclinal basin valley. Its major tectonic element is the San Gabriel fault, which bounds it on the southwest; the San Andreas fault forms its northwest boundary. In cross section, it is an asymmetrical trench filled with up to 14 km of sediments, which dip more steeply (up to 45°) as one goes across the basin from the San Gabriel fault toward the northeast. The thicker southwestern limb of the syncline is filled by the Violin Breccia, a coarse conglomerate shed from the edge of the San Gabriel fault into the deepest part of the basin. The central part of the basin is floored by lacustrine sediments of the Peace Valley Formation. Interfingering with the lacustrine mudstones and Violin Breccia are the Ridge Route Formation sediments shed from the San Andreas fault side. An important piece of structural information was provided by an Exxon seismic line that was run oblique to the San Gabriel fault in an east-west orientation. The subsurface data suggest that the San Gabriel fault becomes listric at depth (like a sliding board, steep dipping at the surface and

approaching horizontal at depth), which is consistent with preliminary gravity survey models across the basin and with the homoclinal basin-fill structure. Carbonaceous material in the sediments indicates that the maximum sediment burial depth was only 12,000 to 14,000 ft. Seismic imaging likewise reveals that the deepest part of the basin lies adjacent to the San Gabriel fault and that the basin shallows toward the north-northeast. These observations are the basis for Morgan's subsequent stratigraphic interpretations.

Morgan noted that the first step in understanding the sedimentary framework of the Ridge basin was to establish its chronostratigraphy, or the time lines linking various geographical parts of the basin with each other. These time lines are the "skeleton" on which the stratigraphy can be hung. Careful stratigraphic examination of the basin sediments revealed a cyclic nature to the sediment packages on both sides of the basin. The Ridge Route Formation is largely a deltaic fluvial system emptying into a lacustrine setting. It ranges from proximal (near-source) fluvial sands, channelized stream-mouth bars, through finer-grained delta-front sediments to distal prodelta turbidite muds. These contrast with the much coarser-grained fluvial-dominated Violin Breccia sediments shed off the San Gabriel fault side of the basin. It forms compact alluvial fans that were shed into the basin as proximal conglomerates and gravity flows, yielding down-slope to channelized sediments, delta-front deposits, and distal muds. These deposits are more areally restricted than the Ridge Route deltaic sediments.

As Morgan and Kenn studied the stacking patterns (vertical sequences of sedimentary succession) of the basin sediments, they noticed that both sources were cyclic in nature, but were out of phase with each other. When the Violin Breccia dominated the basin fill, the Ridge Route was in regression, and when the latter prograded into the basin, the Violin Breccia had regressed. Further research indicated that the cyclic sedimentary deposits represented parasequences, or genetically related units bounded by flooding surfaces. Each parasequence represents a pulse of sedimentary activity thought to be related to tectonic activity along the San Gabriel fault. Strike-slip oblique motion along the fault caused the basin to rapidly deepen on the southwest side, increasing the accommodation space or basin volume, and promoting renewed sediment influx. The Violin Breccia was the dominant sediment source, and its deposits eventually worked their way toward the San Andreas (Ridge Route) side as the basin filled. As tectonism subsided, the Ridge Route source dominated and worked its way across a much shallower basin as the Violin Breccia deposits regressed.

Morgan and his colleagues identified five distinct phases of basin cyclic activity. Biostratigraphy (mammal fossils) and paleomagnetic data helped them determine that the exposed sediments were deposited between 5 and 8.5 million years ago (Ma) in parasequence cycles lasting on the order of 100,000 to 1 million years. Structural considerations indicate the offset along the San Gabriel fault over this time was about 31 miles. The

Continued on page 18

nonmarine nature of the deposits points to tectonics rather than eustasy (sea level change) as driving the cycles. The active nature of the San Gabriel fault at this time suggests it was the dominant strike-slip fault in this region until the current San Andreas system became active approximately 5 Ma. However, this study implies there was an oblique component to its motion, expressed as the listric fault-plane curvature with depth that was interpreted from the Exxon seismic data.

The NCGS sincerely thanks Morgan Sullivan of California State University Chico, for his excellent presentation of an unusually well-exposed terrestrial sedimentary basin. Its stratigraphic

architecture has interpretive applications to marine basins and is a classical study in tectonically controlled basin evolution. Ironically, another NCGS member, Kenn Ehman, partnered with Morgan for this study and with other Exxon colleagues, provided important reconnaissance information for his sequence stratigraphic analysis of the Ridge basin. But best of all, Morgan is now applying his skills to educating a new generation of geoscientists in the application of interpretive tools like sequence stratigraphy to sedimentary geology.

—Dan Day, Newsletter Editor, Northern California Geological Society

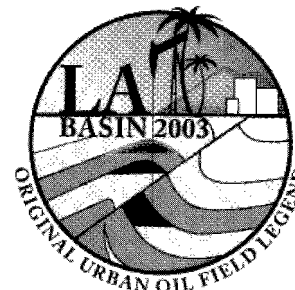
On-Site Registration

2003 COMBINED MEETING

PACIFIC SECTION AAPG & WESTERN REGION SPE

HILTON HOTEL • LONG BEACH, CALIFORNIA

Technical Sessions May 21-23



If you miss the May 1 deadline for advance registration for the convention, you may register on site for the full convention or for a single day.

To register on site, come to the registration desk on the first floor of the Long Beach Hilton during the hours listed below. To speed up the registration process, bring a copy of the registration form (from the convention announcement or the registration tab on the website at www.psaapg.org). Forms will also be available at the registration desk.

On-Site Registration Fees

Member	\$245
Non-Member	\$295
Student	\$35
Spouse / Guest	\$35
One-Day Member	\$120
One-Day Non-Member	\$170

On-site registration includes admission to the technical sessions, exhibits, Icebreaker (Wednesday, May 21), and Exhibit Luncheon (Friday, May 23). You will also receive the conference proceedings and a free gift.

If you want to attend other luncheon or reception events, you will need to pay the appropriate fees listed below. Please note that tickets to these additional events are subject to sell-outs and are offered on a first-come basis.

Registration Desk Hours

Tuesday, May 20	3:00 p.m.	to	9:00 p.m.
Wednesday, May 21	7:00 a.m.	to	7:00 p.m.
Thursday, May 22	7:00 a.m.	to	5:00 p.m.
Friday, May 23	7:00 a.m.	to	4:00 p.m.

Other Luncheon & Reception Events (not included in on-site registration fee)

All-Conference Luncheon (Thursday, May 22)	\$35
Pacific Section AAPG Honors & Awards Reception (Thursday, May 22)	\$30
SPE Luncheon (Wednesday, May 21)	\$30
AAPG DPA Luncheon (Wednesday, May 21)	\$30

Directory of California Producers Available

The 2003 edition of the Conservation Committee of California Oil and Gas Producers (CCCOGP) Personnel Directory is now available. The 240-page directory contains listings for all the oil and gas operators in California, along with key personnel, fields of operations, and production statistics. Government agencies that interface with the industry, industry-related associations, and consulting and petroleum-related services also are included in the directory. The cost is \$40 per book, plus a \$2.50 shipping charge and state and local taxes. There is no sales tax for out-of-state sales. Credit card purchases are accepted. To order a copy of the directory, call 661-635-0556 or send a fax to 661-635-0558. More information about the directory can be found at the CCCOGP website at www.cccogp.org.

—*Editor's Note: CCCOGP's telephone numbers were incorrectly cited in the March/April issue of PPG. The correct numbers are cited here.*

PTTC Workshops

For information about the following upcoming workshops and forums of the Petroleum Technology Transfer Council West Coast Resource Center, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

May 22: *Independents Day* (at SPE Western Regional Meeting) Hilton Hotel, Long Beach, CA

June 22-27: *COMET Program* (outreach) University of Southern California

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Wanted — Interesting and informative technical articles for future issues of this newsletter!

If you have information or interpretive findings from past or recent geological studies in the Pacific region, please consider sharing your ideas and insights with other geologists by submitting an article for this newsletter. For more information or to submit an article, contact **Frank Cressy** at 661-323-6828 or fcressy@prodigy.net.

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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 July & August 2003 issue is June 6, 2003.

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

May & June 2003 password: clastic
July & August 2003 password: fracture

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Joan Fill
Tom Hopps

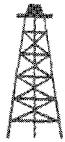


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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

July & August • 2003

Message from the Outgoing President: *The Best Lie I Ever Heard*

"There ain't nothin' to this job," they said. They lied. President, Committee members, Past Presidents—they all lied. And it's a good thing for me they did because I found out there's a lot to it. Sure, it's extra work—everybody knows that. But besides that it's a real adventure, a chance to work with many extraordinarily good and dedicated people, and, as President, an opportunity to represent some of the best geologists in the world. So thanks to those folks for their little white lies and for their enthusiastic support in helping to carry out the business of the Pacific Section.

Thanks to Past President **Allen Britton** for being there with his very practical advice when I asked, which was often, and for the terrific job he is doing as Membership Chairman, and to Past President **Kay Pitts** for her leadership ideas and her eye for detail. Thanks to Vice President **Steve Sanford** who has been steady, unusually perceptive, and sincerely committed to doing a good job. **Jon Schwalbach** did his secretarial thing of taking minutes with great efficiency and really shined by distributing them within days of the meeting, giving the rest of us plenty of time to prepare for the next meeting. And **Harold Syms**, God bless him, always knew how much money we had and where it was and managed to get all the bills paid on time. Only his recent escape to the East Coast has prevented him from nomination for other Pacific Section duties. I definitely enjoyed working closely with our President-Elect, **Allen Waggoner**, this year. Allen's enthusiastic support of new programs and his ideas for the coming year forecast a visionary President with real leadership skills; he will enrich Pacific Section.

I want to especially thank our Newsletter Editor, **Cathie Dunkel**. Under sometimes difficult circumstances, she always managed to get the Newsletter put together in great fashion and out on time. And she always did it with unfailing enthusiasm and a contagiously cheerful attitude. Cathie definitely made my job easier.

Thanks also to all the other committee members who carried out their jobs so well and helped make the Section run smoothly this past year. Here, I want to give a special thanks to **Larry Knauer** and **Mark Wilson**, the "Mutt and Jeff" of Pacific Section. In addition to their many responsibilities with Pacific Section, they continually issued little phone calls and e-mails reminding me of things that I might not otherwise have known I needed to take care of.

Thank you all for a great year. It's been a hoot! So when somebody asks you to run for a Pacific Section office and tells you there's nothing to it, just smile, knowing it's the best lie you've ever heard, and say, "I'd love to." You'll be glad you did.

—Tom Hopps, 2002-2003 President, Pacific Section AAPG

Message from the Incoming President

Well, one year is about to close and a new year and new administration are waiting in the wings for the Pacific Section AAPG. It is with a sense of both honor and a little terror that I look to taking over the reins of this great organization. Such a great legacy of leadership has been established for Pacific Section, and I hope to maintain that legacy as the new Executive Committee takes shape.

I would first like to extend my thanks to the outgoing 2002-2003 Executive Committee for a job well done. As President-Elect, I have had the pleasure of working closely with outgoing President, **Tom Hopps**, over the past year. Tom has done an outstanding job, and all I can say is "Tom, you're a really tuff act to follow." Thanks also to the rest of the outgoing Executive Committee: **Steve Sanford** (Vice President), **Jon Schwalbach** (Secretary), **Harold Syms** (Treasurer), and **Allen Britton** (Past President); the standing committee chairs: **Allen Britton** (Membership), **Mark Wilson** (Directories), **Larry Knauer** (Publications), **Muriel Norton** (Finance), **Bob Lindblom** (Honors & Awards), and **Donna Thompson** (Legislation & Public Affairs); and all the local society representatives. One thing I have observed and been impressed with over the past year is how hard everyone has worked and pulled together to keep this organization running smoothly and efficiently. The past efforts are greatly appreciated,

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as they will make the transition for the new Executive Committee much easier. As of this writing, the ballots for the 2003-2004 Executive Committee are still out, and I am encouraging everyone who received a ballot to take a minute or two and cast your votes. I would also like to thank those brave souls who stepped up to run for office. Good luck to all, and I look forward to working with the new officers soon.

Speaking of smooth and efficient, how about that Long Beach convention?! If you didn't have a chance to attend this year's annual meeting in Long Beach, you missed an absolutely fantastic convention that impressed every attendee that I have talked to—even the engineers. This was the third joint meeting held with the Society of Petroleum Engineers, and the coordination that has developed between Pacific Section and SPE has made for some great conventions and has impressed many of the other AAPG sectional groups. Several sections were so impressed that they are looking to utilize Pacific Section's model for conducting joint conventions with SPE in their areas. Special thanks to the Los Angeles Basin Geological Society and the Western Region SPE for co-sponsoring this successful meeting. And huge thanks and "attaboys" to convention co-chairmen **Dalton Lockman** (AAPG) and **Sam Sarem** (SPE) for pulling it all together. We can now look forward to next year, when Pacific Section will conduct

a solo convention in that ever-popular tourist destination, Bakersfield. The 2004 convention chairman, **John Howe**, already has things moving along, and I'm sure we can look forward to another successful meeting.

As previously mentioned, I look forward to working with the new Executive Committee when the election is concluded. Some areas I hope to emphasize in the coming year include:

- Continuing to strengthen our ties between Pacific Section and our affiliated local societies, and between Pacific Section and National AAPG
- Continuing to build and meet the professional needs of our membership
- Strengthening our educational outreach programs (particularly K-12), and getting full participation from our affiliated societies for the Teacher of the Year program
- Further developing our website to provide more information to our members

Well, the temperature has already passed 100 degrees, and we're barely into June. That means summer has officially arrived in Bakersfield. Hope everyone has a great summer, and I encourage all our members to thank those who have worked so hard over the last year and to get involved in the year to come.

—Allen Waggoner, 2003-2004 President, Pacific Section AAPG

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Didn't you just love the beach?

The Pacific Sections of AAPG, SEPM, and SEG held their 2003 Annual Meeting in Long Beach at the Hilton Hotel from May 19 through May 24, 2003. This year, the meeting was combined with the Society of Petroleum Engineers Western Region annual meeting to provide a multidisciplinary forum for the exchange of engineering and geoscience technologies and best practices. Most people agree this meeting provided a great venue to renew acquaintances, catch up on some of the latest technologies, adjust your thinking about petroleum engineering and the geosciences, and honor the geoscience profession and its special members.

Attendance — The total attendance at the meeting was 776. This included professionals, exhibitors, students, and registered spouses. From the planning point of view, the meeting was expected to attract between 850 and 900 persons. Although lower than expected, attendance was not too bad considering the industry is currently in a travel lull. In the end, the convention committee concluded that the meeting was extremely successful from all points of view—exhibitor, attendee, presenter, and vacationer.

Technical Program — The technical program was as strong as any in the past ten years. The Pacific Section's Technical Program Chair, John Cooper, compiled a strong blend of presentations and poster sessions spanning three days with over 120 geoscience papers (160 total papers).

Field Trips — The meeting kicked off with two excellent field trips. One examined the channelized turbidite systems of the Miocene Capistrano Formation, and the other traveled the Newport-Inglewood Fault trend and examined the numerous oil fields adjacent to the fault. Both trips were well attended, with the Newport-Inglewood Fault trip selling out. The meeting concluded with a field trip sponsored by the Dibblee Geology Center to examine outcrops of the eastern San Gabriel Mountains and the Pomona Valley.

Special Events — Since all of the special events were included in the pre-registration fees and onsite three-day registration, attendance at special events was good. The Wednesday-evening Icebreaker (held at the end of the first day of technical sessions) provided food and beverage to everyone in attendance. On Thursday, the All-Convention Luncheon was held outside in the blistering hot L.A. sun (no complaints from Bakersfield residents), with a great motivational presentation by Olympic Gold Medallist Rafer Johnson. Thursday evening was sealed by the Pacific Section AAPG Honors and Awards Reception, which included plenty of food and beverage to honor those who stand out in our profession. Lunch on Friday was provided to those wanting to get one last peek at the exhibits before closing down.

Sponsors and Exhibitors — Without the support of our sponsors and exhibitors, a meeting like this would not have been nearly so successful. We want to thank all companies and organizations that exhibited and provided sponsorships.

Many individuals worked hard to bring this event to fruition with the common goal of optimizing an attendee's time while providing a maximum amount of information, education, and excitement at a reasonable price. If you have suggestions for improvements for future conventions, please contact Dalton Lockman (Convention General Co-Chair) while they are still fresh in your mind. He can be reached at dlockman@plainsxp.com or 323-298-2242.



A luncheon to remember . . .

*The All-Convention Luncheon delivered both meal and motivation for all who attended.
(photos courtesy of Larry Knauer and Allen Britton)*



At the head table (left to right): **Doug Patchen** (Eastern Section AAPG Meeting Chairman), **Dalton Lockman** (AAPG General Co-Chairman), **Sam Sarem** (SPE General Co-Chairman), **Rafer Johnson**, and **Tom Hopps** (Pacific Section AAPG President).



Pacific Section member **John Randall** and **Rafer Johnson** in the exhibit area, where Rafer autographed copies of his book, *The Best That I Can Be*, following the luncheon.



Keynote speaker **Rafer Johnson**, a World and Olympic record holder in the decathlon, and a silver and gold Olympic medalist, shared his experience and insight for using individual talent and abilities to excel.

Intense sunshine and the desire to make fashion statements prompted several folks to don creative napkin-hats.



Thanks to our sponsors . . .

The following organizations provided financial and other support, which contributed to the success of the 2003 Pacific Section Convention in Long Beach. Please join us in thanking them for their invaluable support of our convention and profession, and remember them in your business dealings in the coming year.

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Congratulations to our award recipients . . .

(photos courtesy of Larry Knauer and Allen Britton)

Martin Van Couvering Award

The Martin Van Couvering Award is presented jointly by the Pacific Section AAPG and Pacific Section SEPM. 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:

California State University, Fullerton

JULIA CLARK
STEVE TURNER

California State University, Long Beach

GINO CALVANO
PAMELA S. HILL

California State University, Los Angeles

HECTOR HERNANDEZ

University of California, Los Angeles

KURT FRANKEL
MARY KALROUZ



Special Recognition Award

In recognition of outstanding service as the General Chairman of the 2003 Convention in Long Beach, California, the Pacific Section AAPG would like to present a special token of appreciation to:

DALTON LOCKMAN
Plains Exploration & Production Co.

Teacher of the Year Award

The Pacific Section AAPG is pleased to honor Michael D. Fillipow as the recipient of the Pacific Section AAPG 2003 Teacher of the Year Award, recognizing excellence in the teaching of natural resources in the earth sciences. The winner of this award is selected from candidates submitted by each of the seven Pacific Section AAPG affiliated societies, representing our membership in California, Oregon, Washington, Alaska, and Hawaii. Mike was entered as a candidate for the Pacific Section award as the winner of the Los Angeles Basin Geological Society Teacher of the Year competition.

MICHAEL D. FILLIPOW
Long Beach Polytechnic High School
Long Beach, California



Pacific Section AAPG President Tom Hopps and Teacher of the Year Award recipient Mike Fillipow.

Mike Fillipow teaches geology classes as upper-division science electives to 11th and 12th-grade students at Long Beach Polytechnic High School. He has developed a variety of course material with an emphasis on hands-on experience, lab work, and field trips. Of particular note, Mike has developed a cross-curricular unit on the petroleum industry, where students become owner-operators of imaginary oil companies who must decide where and when to drill based on the geology and economics of the specific prospect. Cultural and contract-

proposal issues are included in the petroleum unit through involvement of the student's Social Studies and English teachers.

Mike is a dedicated, creative, and energetic teacher and truly demonstrates excellence in the teaching of natural resources in the earth sciences.

—Los Angeles Basin Geological Society



President's Award

In recognition of his excellent and longstanding service to Pacific Section at both the Section level and the National level, the President of the Pacific Section AAPG is pleased to present a special token of appreciation to:

ROBERT LINDBLOM



Pacific Section AAPG President Tom Hopps and President's Award recipient Bob Lindblom.



A. I. Levorsen Memorial Award

The A. I. Levorsen Memorial Award is given by National 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 annual section meeting for papers presented at the previous year's meeting, in this case the 2002 Pacific Section Convention in Anchorage, Alaska. The 2002 winner is:

HERBERT W. SWAN



Pacific Section AAPG President Tom Hopps and A. I. Levorsen Memorial Award recipient Herbert Swan.

Robust AVO Processing for Arctic Exploration

H. W. Swan (Phillips Alaska, Inc.)

Seismic amplitude variation with offset (AVO) is a particularly leveraging technique in North Slope oil and gas exploration, where the reservoir presence and quality are the greatest risks. However, the arctic environment also introduces unique data quality problems, which must be overcome before AVO can be measured quantitatively. This talk focuses a method which normalizes and corrects seismic time, phase, and amplitude variations with offset. These variations are caused by ice lakes, permafrost variations, and other subsurface geology. The method first applies an ensemble automatic gain control, which corrects the time-varying amplitudes of individual gathers as a whole, but preserves their AVO. Raw AVO intercept and gradient traces are then computed and destretched to remove offset-dependent tuning. The intercepts and gradients are cross-correlated to estimate the background reflectivity. Corrections are then made to the gradients to force them to conform to an area-wide background standard. Seismic events which deviate significantly from the background are by definition "anomalies," and can be further classified according to their location in the intercept-gradient plane. This classification helps to determine reservoir quality and fluid type. Product indicators classify AVO anomalies in a phase-independent manner. Results from producing fields will be shown.

H. Victor Church Memorial Award

The H. Victor Church Memorial Award is given by the Pacific Section AAPG in recognition of the best poster presented at a Pacific Section meeting. The award is made at the annual section meeting for posters presented at the previous year's meeting, in this case the 2002 Pacific Section Convention in Anchorage, Alaska. The 2002 winner is:

MARWAN A. WARTES

Detailed Facies Analysis of the Lower Cretaceous Fortress Mountain Formation, Atigun Syncline, Northern Alaska

M. A. Wartes and A. R. Carroll (University of Wisconsin, Madison)

The Lower Cretaceous Fortress Mountain Formation marks the first coherent stratigraphic record of the early Colville foreland basin. We investigated one of the most prominent exposures of this interval at Atigun syncline, near Galbraith Lake. Based upon detailed facies analysis of more than 1200 meters of section, we interpret the Fortress Mountain Formation as a large fan-delta complex. The succession is dominated by repeated coarsening-upward packages, recording the progradation of delta-front environments. The base of a typical succession is characterized by low-angle, cross-bedded, fine-grained sandstone (including rare HCS), interbedded with occasional thin turbidites grading from very-fine grained sandstone to siltstone. Horizontal and vertical burrows are most common in this interval. This is followed by massive to thin-bedded pebbly sandstone and trough cross-stratified sandstone. Bivalve fossil lags are occasionally observed in association with the trough cross-stratified sandstone facies. Conglomerate units fine basinward and are locally shingled, dipping up to 11 degrees seaward. Conglomerate beds often exhibit non-erosive bases, normal to inverse grading, and poor sorting, consistent with amalgamated mass-flow deposition in a mouth bar setting. Individual conglomerate beds are often capped by mega-rippled surfaces that display a unidirectional asymmetry indicating transport to the south. We interpret this sedimentary structure as the record of fair-weather waves impinging on the shoreface. Well-sorted, open-framework conglomerate is less common, but does occur toward the top of some coarsening-upward packages. Based on the textural maturity and seaward dipping clast imbrication, we interpret this facies as foreshore deposits, modified by intense wave action.



Distinguished Educator Award

The Pacific Section AAPG Distinguished Educator Award is given in recognition of distinguished and outstanding contributions to geological education. This year, we are proud to honor:

DR. PETER W. WEIGAND

Professor of Geology
California State University, Northridge



Pacific Section AAPG President Tom Hopps and Distinguished Educator Award recipient Peter Weigand.

The Pacific Section AAPG Distinguished Educator Award is given in recognition of distinguished and outstanding contributions to geological education, including counseling of students, education of the public, and management of educational programs. This year's recipient, Dr. Peter W. Weigand, has certainly excelled in all of these categories. Peter was born in Woodbury, Connecticut. He earned his B.A. degree in Biology from Lafayette College, but took introductory geology courses as a senior and following graduation attended a University of Iowa summer field geology course in Wyoming. This course led him to graduate studies in geology at the University of North Carolina at Chapel Hill, where he earned M.S. and Ph.D. degrees. After three years of post-doctoral studies that included the study of moon rocks, he began his teaching career in the Geological Sciences Department at California State University, Northridge.

During Peter's teaching career of 30 years at CSUN, he has exhibited enthusiasm for his teaching and a real

desire to communicate positively with his students, who have recognized that he wants them to succeed. He has counseled students by serving as curriculum advisor for some and as research advisor for others. He has been the research advisor for 31 senior theses and 10 master's theses, plus serving on 9 additional master's thesis committees for students at CSUN, CSULA, and CSULB. He has obtained 10 research grants for the purpose of supporting the research of his students. The above research has led to 41 publications (6 of them having student coauthors) and 39 abstracts (18 of them having student coauthors). These publications have established Peter as the premier authority on volcanism in southern California. In student evaluations of Peter's teaching are found statements such as, "The best teacher I have had at CSUN."

As part of his service in educating the public, Peter has presented 20 invited public lectures at 13 different southern California universities and community colleges and an additional 15 invited public lectures at 6 different local geological organizations. As a member of the Far Western Section NAGT, Peter organized and co-led 3 field trips exclusively for teachers and organized and co-presented 5 teacher workshops on southern California geology topics. He also served as leader or co-leader on 10 public field trips for local geological organizations, including the Pacific Section AAPG, was co-leader on 4 public field trips for the CSUN Department of Geological Sciences, and was the organizer of the CSUN 40th Anniversary Open House for the Department of Geological Sciences. Peter is definitely a geologist who spends a great deal of time bringing an understanding of geology to the public.

Peter has proved his abilities at management of educational programs by serving as Department Chair for 7 years and as Department Vice Chair for 5 years. He has served on several Department, College, and University committees and has been instrumental in initiating numerous changes and new programs that have greatly benefited the Department. During his term as Chair he infused the students and faculty with a great sense of

purpose and created an environment conducive to learning topnotch geology. He received a Judge Julian Beck Instructional Improvement Grant that allowed him to update, modernize, and incorporate local geological features into his teaching of introductory geology, mineralogy, and petrology courses. He worked for over a year at putting all the lectures for these courses into PowerPoint format with integrated visuals, animations, and videos. He has also put his managerial skills to work by serving as the Chair of the Far Western Section NAGT Spring 2000 meeting and as General Co-Chair of the joint Pacific Section AAPG/Cordilleran Section GSA Spring 2001 meeting. He is currently serving as Vice President and Treasurer of the Thomas W. Dibble, Jr., Geological Foundation.

In recognition of Peter's abilities as a distinguished educator, he was named an Outstanding Educator by the Los Angeles Bayanihan Lions Club in 1996, and, in 2002, he received a Distinguished Teaching Award from the President's Associates of CSUN. He was also awarded the George Lefevre, Jr., Distinguished Faculty Research Award by the CSUN Chapter of Sigma Xi, The Scientific Research Society, in 1999. I am happy to have been selected as Peter's citationist and pleased that I could present the accomplishments of Peter W. Weigand to the members of the Pacific Section AAPG. He is truly deserving of the honor of the Pacific Section's Distinguished Educator Award for 2003. Please join me in congratulating him on receiving the Section's twelfth such award.

—A. Eugene Fritsche



Distinguished Service Award

The Pacific Section AAPG Distinguished Service Award is bestowed upon members in recognition of singular and beneficial long-term service to the Pacific Section or affiliated societies. This year, we are proud to honor:

JOAN ROBERTS BARMINSKI



Pacific Section AAPG President Tom Hopps and Distinguished Service Award recipient Joan Barminski.

Joan R. Barminski has been selected to be one of the first recipients of the Distinguished Service Award in recognition of her ongoing contribution to and involvement with the Pacific Section AAPG.

Although Joan was born and raised in the eastern United States, she has certainly developed strong roots here in southern California. She received her undergraduate degree in geology from Smith College in Massachusetts in 1975 and continued master's work in geology and marine science between 1975 and 1977 at the University of North Carolina. In 1977, she joined the U.S. Geological Survey in Washington, DC, as an oceanographer, following which she became a District Geologist in exploration in the Hyannis, Massachusetts, office. California beckoned, and, in 1984, Joan transferred to the Pacific OCS Region office of the Minerals Management Service in Santa Maria, working in exploration and development. In 1991, she moved to the Camarillo MMS office and was appointed Chief of the Production and Development Section of OCS leases and units, then moved into her current

position as Chief of the Development and Reservoir Analysis Section in 1999. Her responsibilities include ensuring compliance with established policies for exploration, development, and production of OCS leases and units. In 1996, the Department of the Interior honored Joan with an award for Superior Service, reflecting the care and diligence she brings to her position.

With Joan's move to Camarillo, she became actively involved with many of the local organizations. She has held the offices of President and Treasurer in the Coast Geological Society and continues as its Education Chairman. In the Pacific Section of the AAPG, she was Treasurer for four years, and, while serving as member of the AAPG House of Delegates, she has served on several Pacific Section committees, including Nominations and Elections, Constitution and Bylaws, and Membership. As a House Delegate, she also represents the Coast Geological Society in the National meetings. In addition, Joan was a member of the API Coastal Chapter Energy Day Committee between 1996 and 2000. When the Pacific Section AAPG annual conventions were located in Ventura, Joan participated as Printing Chairman in 1994 and, with her husband Mike, Registration Co-Chair in 1998.

Joan's enthusiasm and willingness to contribute her knowledge and interest in the field of geology is reflected in her participation in the annual Ventura County Science Fair for several years. With her husband Mike and their two children, Michael and Lizzie, she has also participated in many of the spring and fall field trips of the Santa Barbara City College Geology Department to Death Valley and the eastern Sierras. In addition, she also makes time to talk to her children's classes about geology.

As you can see, Joan is service minded. She is a tremendous asset to any project she joins, and we are indebted to her for her many contributions to our geological community.

Joan is an active member of the American Association of Petroleum Geologists and of the Society of Petroleum Engineers. She is also a registered geologist in California and Idaho.

—Muriel R. Norton

Distinguished Service Award

The Pacific Section AAPG Distinguished Service Award is bestowed upon members in recognition of singular and beneficial long-term service to the Pacific Section or affiliated societies. This year, we are proud to honor:

DALTON LOCKMAN



Pacific Section AAPG President Tom Hopps and Distinguished Service Award recipient Dalton Lockman.

Dalton Lockman is an exceptional choice to receive the Distinguished Service Award from Pacific Section AAPG. His list of accomplishments, and service to our society, is at the highest level. He is a unique and gifted individual who views obstacles as challenges, and particularly where society business is at hand, is eager to step forward. I've known Dalton for over 20 years and have seen much of his infectious enthusiasm, dedication, and incredible work ethic in action. The difficult part will be conveying that to you in the following paragraphs.

Dalton grew up in the Bay area, but he seems to have survived that ordeal fairly well. For much of his life he has been a southern Californian, although he retains some northern afflictions such as an irrational support for the 49ers. He began his geologic career as an undergraduate with the Whittier Poets, sharing the department halls with another Pacific Section legend, Larry Knauer. Finally tiring of the West Coast, Dalton headed off for Wright State University in Ohio, working with the renowned fracture guru, Byron Kulander. Dalton learned his lessons

well, and brought a passion for fractography with him to the oil industry when, in 1981, he joined Exxon in their production office in Century City. After a short stint learning the ropes at Prudhoe Bay, he was soon describing fractures in the Lisburne Formation. He led fracture seminars for many of us new hires, breaking glass rods and teaching about twist hackles and arrest lines. I was an immediate beneficiary of this expertise when I was soon studying fractures in the Monterey Formation and relying on Dalton for his invaluable technical insight.

Dalton is extremely proud of the fact that during his 20-year career with Exxon he never had a Houston address. In fact, for 16 years he worked fields onshore and offshore California, and Alaska, all out of the same office (Room 1603) in Thousand Oaks. He survived a number of supervisors and reorgs, including the sale of the building, but the geology group truly revolved around him. Only remodeling the building in 1998 could finally force an office move! The sentimental attachment to this particular office overwhelmed him, and not long after he accepted an assignment in Anchorage, working with various Exxon and ExxonMobil partners, overseeing operations and reservoir studies on the North Slope. But finally, the lure of southern California, and an offer from Stocker Resources (now Plains), pried Dalton away from ExxonMobil and back to Los Angeles for the new millennium (2001).

Paralleling this distinguished professional career is an incredible record of service to Pacific Section AAPG and affiliated societies. Dalton served as Vice President and President of the Coast Geological Society in the early 1990s and then jumped in with both feet when he agreed to be the General Chairman of the highly successful 1994 Pacific Section Convention in Ventura. Through significant personal effort and coordination with a dedicated convention staff, the convention established a trend of financial success that has been instrumental in the overall success of the Pacific Section. Dalton pressed on and was elected as President of our section in 1996. Because of the success in 1994, Ventura was selected

again to host the 1998 convention. This time Dalton passed on the General Chairmanship, enlisting a friend (me) with the promise of "don't worry, I'll be Vice Chair and do a bunch of the work." He did, of course, help significantly, until about three months before the convention, when he accepted his transfer to Anchorage!

This started a new trend in his society service, relocating and revitalizing local societies in need of some added energy. He became Treasurer of the Alaska Geological Society in 1998. His presence in Alaska was instrumental in the society returning to Anchorage, after an absence of 17 years, for the joint Pacific Section AAPG/SPE convention in 2001. Of course 2001 was also the year that Stocker Resources and southern California beckoned. Once again seeing the need, he became President of the Los Angeles Basin Geological Society, actively recruiting new members and officers. And, to top it off, he chaired this [2003 Pacific Section] convention here in Long Beach!

When he isn't organizing or leading, he still finds time for technical work and presentations. Dalton is the author or co-author of 17 articles and abstracts. One of the most important, issued in 1997 as a Pacific Section publication, is "A Systematic Technique for Describing and Quantifying Fractures in Core," which revealed much of the technology he helped develop during his work with Exxon.

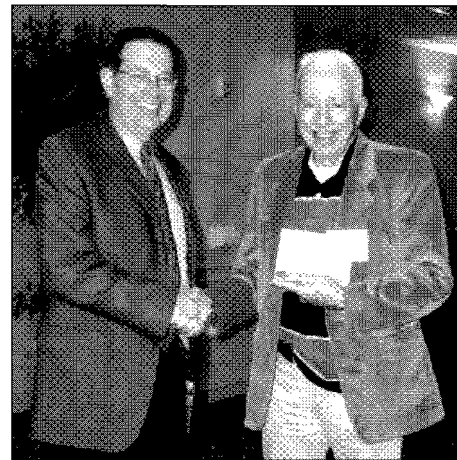
You might be thinking by now that this guy must have no life other than work and geovolunteerism... but that's not the case. Dalton and his wonderful wife Lisa spend much of their time chasing around their 3 year-old son Ethan, who, following in Dad's water sports tradition (swimming, water polo), is already an accomplished doggie-paddler. Dalton is also an avid runner (sub 6-minute miles), and spends considerable time volunteering at his church. In the past he has helped lead school kids on geology field trips, and he and a few Exxon buddies even sponsored a Boy Scout Explorer Post a few years back. The Pacific Section is truly fortunate to have Dalton as an active member, and I can think of no other person more deserving of this Distinguished Service Award.

—Jon Schwalbach

Distinguished Service Award

The Pacific Section AAPG Distinguished Service Award is bestowed upon members in recognition of singular and beneficial long-term service to the Pacific Section or affiliated societies. This year, we are proud to honor:

TOM W. REDIN



Pacific Section AAPG President Tom Hopps and Distinguished Service Award recipient Tom Redin.

The recipient of this award was born and raised in the North Chicago area, graduating from Maine Township High School in 1943 (and as he put it, "a few years ahead of Hillary Clinton"). Tom spent two years in the Army in the European Theater, receiving his discharge in 1947, and, like many of our generation, enrolled in college under the G.I. Bill. He attended the University of Illinois for one year and then transferred to UCLA, receiving his Bachelor's degree in Geology in 1952.

Tom joined the offshore exploration consortium of Continental, Union, Superior, and Shell (known as the CUSS group) in 1955, working with both the engineering and exploration staffs on the marine sampling program. This involved the examination and evaluation of material gathered from the ocean floor by drop and jet coring and shallow drilled core holes. I worked with Tom during this period, and it was an enjoyable professional experience. The group disbanded in 1958, and Tom continued to work for the prime contractor, Global Marine Exploration, until 1960.

Continued on page 10

In 1960 he joined the International section of Union Oil Company and was assigned the task of doing a regional evaluation of Pakistan's Indus River Basin. In 1961, he was transferred to the company's Western region and became involved in field mapping studies in the Transverse Range Province, working in the Oak Ridge/Simi Valley area in the south and the company's Ex-Mission fee holdings to the north. In 1963, Tom moved to the Santa Fe Springs office and assumed the responsibilities of the company's offshore exploration effort. This involved the planning and execution of a new phase of drop and jet coring and the drilling of additional core holes. Added to these standard gathering techniques of ocean bottom data was the increased use of SCUBA divers and manned mini-submersibles. In 1969, Tom was named District Exploration Geologist and added the L.A. Basin to his responsibilities. Tom took early retirement in 1986.

Our recipient has been active in AAPG for many years, having been a member in both the national and Pacific Section since 1964. In 1967-1968, he was President of the Los Angeles Basin Geological Society. During the late 80s and early 90s, Tom worked on a series of five regional cross sections of the L.A. Basin with Jack West and was a contributor to the AAPG Memoir 52 volume on active margin basins. He has given talks at both regional and national conventions on the subject of oil and gas production from submarine fan deposits. Since his retirement, he has continued to work with a group of other professionals involved in the AAPG Pacific Section's ongoing development of a series of regional cross sections (13 in all) tying the geology of onshore to the offshore of the Santa Barbara Channel. Of this number of sections, Tom has worked on eleven and has been the primary worker on eight.

I feel honored that Tom asked me to write this citation and very pleased that the Honors and Awards Committee is recognizing his dedicated and distinguished service to the Section.

—G. C. "Butch" Brown

Honorary Life Membership

Honorary Life Membership is Pacific Section AAPG's highest honor. It is bestowed upon members who have distinguished themselves by their contributions and devotion to the science and profession of petroleum geology and by outstanding service to the Pacific Section. This year, we are proud to honor:

DONALD DEAN CLARKE



Pacific Section AAPG President Tom Hopps and Honorary Life Membership Award recipient Don Clarke.

Everyone who knows Don knows that he is always doing something interesting. It's been like that ever since I first met him at university in the early 1970s and continues to be true today. Visit with Don and you soon find yourself engrossed in one of his recent adventures, ranging from tracking dinosaurs in Wyoming, taking trips to the Tucson mineral fairs to acquire museum-quality turquoise for his wife, going to Big Bear to view the stars through his telescope, rafting down wild rivers in the Gold country, conducting fast-paced hikes into the Sierra back country, working with the Long Beach Grand Prix, or any of an infinite number of other equally fascinating activities. Combine this with his professional accomplishments, teaching at local junior colleges, his volunteer activities with the AAPG or his community, and his devotion to his family, and soon you find yourself envious of his sheer energy and joy for life.

Don, a third-generation Californian, was born in 1949 in Los Angeles.

Raised in the nearby San Fernando Valley, he was introduced to geology by Sterling Pryor, his junior-high-school science teacher. Don graduated from California State University, Northridge (CSUN) with his B.S. degree in 1972 and attended graduate courses at CSUN, CSU Long Beach, and CSU Los Angeles. Don met his wife, Cynthia, while at CSUN, and they married in 1975. Their daughter, Holly, is well known by many of AAPG's staff and past officers, as she occasionally accompanies Don on his professional travels.

Don began his professional life in 1974 with the California State Lands Commission, where he became an expert on the Wilmington oil field in Long Beach. In 1981, he joined the City of Long Beach, Department of Oil Properties, advancing to become the City's Division Engineer of Geology, Environment, and Safety. Don is an acknowledged expert on the Wilmington field, sequence stratigraphy, computer mapping techniques, and geological hazards, with more than 50 papers on these subjects to his credit. He has led field trips and held short courses for both AAPG and the PS-AAPG, and has presented papers internationally.

It is not possible to concisely cover all of Don's contributions to AAPG, so here are some of the highlights. As President of the Los Angeles Basin Geological Society from 1996 to 2001, Don's leadership sustained the society through the industry downturn and departure of the majors from Los Angeles. At the Pacific Section, Don has served on committees, stood for office, and chaired two very successful PS-AAPG conventions in 1993 and in 2000, including the first-time-ever SPE/AAPG co-hosted convention, a joint meeting format now being emulated by other Sections. Don has served on AAPG's Advisory Council, the DEG Advisory Board, the HOD (since 1988), the Reservoir Development Committee (since 1998; Vice Chair 1999-2001), the Budget Review Committee (1999-2000), the DEG Advisory Board (2001-2004), and has stood for office as a candidate for AAPG Treasurer and HOD Chair. He is currently running for the DEG Presidency.

Don's devotion to his community has been equally extensive. He has served

as Vice President and Director of the Thomas Dibblee Geological Foundation, Director for Studies of Los Angeles Basin Subsurface Geology, Member of the National Research Council Committee on Preservation of Geoscience Data and Collections, Vice President of the Orange County Engineering Council, President of the Science and Math Associates at Long Beach Community College, on the Science Advisory Board at Milliken High School, and on the Earth Science Curriculum Review Board at CSUN. Don gives lectures, has brought in speakers for numerous community organizations, has led oil field tours for local schools and community groups, and teaches geoscience classes at Compton Community College, where his infectious enthusiasm has introduced geology to many inner-city youths for the first time. He was also active in the Long Beach Grand Prix Race Management for 17 years.

Don is well known for his vision, drive, leadership, creativity, intensity, and sheer energy. He has introduced geology to students and the community while firing their imaginations with his love of geology. He has served AAPG with distinction at all levels and has established himself at the pinnacle of his profession.

The Pacific Section AAPG is proud to extend to Don our highest award, PS-AAPG Honorary Membership in honor of his professional achievements and for all he has done for the Section, AAPG, and for his community. Nothing pleases me more than to see this award given to my very good friend, Don Clarke.

—Bob Countryman



Honorary Life Membership

Honorary Life Membership is Pacific Section AAPG's highest honor. It is bestowed upon members who have distinguished themselves by their contributions and devotion to the science and profession of petroleum geology and by outstanding service to the Pacific Section. This year, we are proud to honor:

MELVILLE C. ERSKINE



Pacific Section AAPG President Tom Hopps and Honorary Life Membership Award recipient Mel Erskine.

When Mel Erskine became active in Pacific Section's work, he brought three decades of experience in mineral exploration, geothermal exploration, and remote sensing. He also brought a willingness to do whatever task was needed, and a twinkling sense of humor.

Mel was born in Los Angeles in 1933, the son of an independent trucking and logging contractor whose jobs took the family from one end of California to the other. After high school in Fresno, he enrolled at U.C. Berkeley, but soon was called into the U.S. Army for the Korean War. Mustered out in 1952, he went to Santa Rosa Junior College and then to Colorado School of Mines, graduating in 1960 as a Geological Engineer (Mining Geology). From there, it was back to U.C. Berkeley with an NSF Fellowship for an M.S. (Geochemical Exploration) in 1964 and a Ph.D. (Geophysical Exploration) in 1970. During those years, summer or short-term jobs took him to the Colorado Plateau, Alaska, and, as Party Chief, to Canada's Northwest Territories, British

Columbia, and the Yukon. While at Berkeley, he consulted in geology and geophysics.

From 1967 to 1971, Mel directed Humble's exploration for porphyry copper in Alaska and for Precambrian sulfides in Wisconsin and Michigan. From 1971 to 1976, as Chief Geologist of Earth Satellite Company, Mel applied remote sensing to resource exploration and exploitation. From 1976 to 1985, he was President and chief scientist of Eureka Resource Associates, Inc., providing exploration and valuation expertise to financial institutions, governments, and most of the major oil and geothermal companies. Since 1985, Mel has engaged in a wide range of geological and geophysical consulting for many clients, including Hunt Oil, California Energy Company, and the U.S. Government.

In 1981, as his projects expanded from mineral exploration into frontier petroleum basin studies, Mel joined AAPG and soon became active in its Energy Minerals Division. By 1986, he had joined Pacific Section and served as EMD's representative on the Section's Executive Committee. Mel's many contributions to EMD on both the national and section levels earned him the Division's Distinguished Service Award in 2000. Since the 1980s, Mel has been a very active member of the Northern California Geological Society (NCGS), serving as its President in 1991-1992, and as a Delegate to AAPG's House of Delegates in 1989, 1991, and 1997 to the present. For the past decade, Mel has been the primary link between NCGS and the Pacific Section. He served as President of the Pacific Section AAPG in 1998-1999.

Mel's greatest contributions to Pacific Section have been related to its annual conventions. His first effort was as Technical Program Vice-Chair for EMD for the 1990 national AAPG meeting in San Francisco. In 1992, when NCGS invited Pacific Section to hold its 1995 meeting in San Francisco, Mel was NCGS president. Although officially he took only a minor Chair in the Technical Program Committee, he was fully involved from the very first site visit. He served unofficially as the eighth member of the Convention Executive Committee and attended nearly every

Continued on page 12

one of its meetings. The success of that meeting was due in large part to Mel's efforts. The same is true for the Monterey Bay convention in 2000. Working with Gary Greene as a strong General Chair, but an otherwise inexperienced local committee, Mel was one of three "outside" advisors who got the meeting up and running during many trips to Monterey. The 2001 Field Conference in

Cedar City, Utah, jointly sponsored by Pacific Section and the Utah Geological Association, was Mel's brainchild. He served as Technical Committee Chair and as Editor of its exceptional Symposium and Field Guide volume, in addition to leading one of its four field trips. And now, finally accepting a lead role, Mel is Co-Chair of the 2005 Joint Annual Meeting of Pacific Section

AAPG and the Cordilleran Section of the Geological Society of America in San Jose. With his talents and experience, it is sure to be an exceptional event.

As he continues to serve Pacific Section in many roles, Mel Erskine justly deserves recognition as an Honorary Life Member.

—Tom Wright

NEW!

2003 PACIFIC SECTION AAPG PUBLICATION

MP 47

Miscellaneous Publication 47

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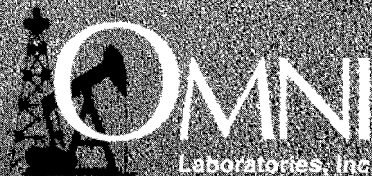
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Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



Luncheon meetings are usually held on the third Thursday of the month (except June through August) 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 September. For reservations, call the AGS reservation voice line (263-4232) or e-mail **Art Banet** (arthur.banet@mms.gov) before noon on Monday before the meeting.



AGS Board members for the 2003-2004 term are: **Rocky Reifenstuhl** (President), **Sue Karl** (President-Elect), **Tom Homza** (Vice President), **Dave Shafer** (Treasurer), **Tom Morahan** (Secretary), **Jennifer Petersen** (Director), **Paul McCarthy** (Director), and **Dave Lepain** (Director).

Coast Geological Society

www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Philip Kinney
805-230-1266 ext. 224



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will be held at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura until further notice (check the CGS website for details). 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 \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. The next meeting is scheduled for September. Reservations can be made by e-mail to cgs.rsvp@sbcglobal.net, by phone (to **Dave Brown**) at 805-653-7975, or by fax at 805-653-7452. Reservations are due by 4:00 p.m. on Friday before the meeting.

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 usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. The next meeting is scheduled for September 25. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or mills@labgs.com. Reservations should be made by Tuesday before the meeting.



At the suggestion of several members, the LABGS Board has decided to continue for a second year of service, with officers serving in the same roles. The board year coincides with the fiscal year, and the officers will serve from July 2003 to July 2004. There will be an election for 2004-2005 officers in Spring 2004. The continuing officers are: **Dalton Lockman** (President), **Mike Mills** (Vice President), **Kristi Darby** (Treasurer), and **Ivan Aburto** (Secretary). For information about how to contact them, see the LABGS website at www.labgs.org.



Three of LABGS's four vacancies for the AAPG House of Delegates were filled as a result of the April 2003 election for delegates. The individuals who were elected to serve three-year terms as delegates (from July 2003 to June 2006) are: **Karen Blake** (Plains Exploration and Production Co.), **Don Clarke** (City of Long Beach, Dept. of Oil Properties), and **Dalton Lockman** (Plains Exploration and Production Co.).



Mike Fillipow, the LABGS 2003 Teacher of the Year for Excellence in the Teaching of Natural Resources in the Earth Sciences, was awarded the Pacific Section AAPG 2003 Teacher of the Year award at the Pacific Section Convention in Long Beach (see page 5). He received \$500 and will be the Pacific Section's candidate in AAPG's national competition.

Northern California Geological Society
www.ncgeolsoc.org

9 Bramblewood Court
Danville, CA 94506-1130

Contact: **Dan Day**
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except June through August) 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. 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 will hold a field trip to the Clear Lake Volcanic area on August 2. The trip will be led by **Rolfe Erickson** of Sonoma State. For more information, contact NCGS Field Trip Coordinator **Jean Moran** at jeanm@stetsonengineers.com.

Northwest Energy Association
www.nwenergyassociation.org

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

Contact: **Jim Jackson**
503-771-3887



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The next meeting is scheduled for October. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



NWEA is planning its Fall Symposium, which will be held in Bend, Oregon, in September. For information, contact **Jim Jackson** at 503-771-3887.

Sacramento Petroleum Association

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

Contact: **Rick Blake**
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. Upcoming meetings are tentatively scheduled for July 16 and August 20. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. Anyone interested in giving a presentation at a monthly meeting should contact **Rick Blake** at 925-422-9910 or blake2@lInl.gov.

San Joaquin Geological Society
www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: **Jaime Roig**
661-665-5942



Dinner meetings are usually held on the second Tuesday of the month (except July through September) 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 October. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.



Depending on the success of SJGS's first Networking Bash on June 26, SJGS may have other summer networking events on the second Tuesday of the month at Lengthwise Brewing (6720 Schirra Court) in Bakersfield. For updates and additional information, see the SJGS website at www.sjgs.com or contact **Jaime Roig** at jhroig@aeraenergy.com or 661-665-5942.



SJGS welcomes its 2003-2004 officers: **Cynthia Huggins** (President), **Roy Burlingame** (President-Elect), **Frank Cooper** (Vice President), **Abby Howell** (Secretary), and **James Melland** (Treasurer). They take office in early July.



SJGS will hold its Annual Golf Tournament and BBQ on September 5 in Bakersfield. For information, see the SJGS website at www.sjgs.com or contact **Jaime Roig** at jhroig@aeraenergy.com or 661-665-5942.

Schedule of Events

JULY & AUGUST 2003

July 16 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento
Speaker: TBA

August 2 — NCGS Field Trip

Location: Clear Lake Volcanic Area
Leader: Rolfe Erickson (Sonoma State)
See page 14 for contact information.

August 20 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento
Speaker: TBA

UPCOMING EVENTS

- | | |
|-----------------|--|
| Summer/Fall* | • NCGS Field Trip (Devil's Slide/Pebble Beach or Pigeon Point) |
| September 5 | • SJGS Annual Golf Tournament and BBQ |
| September 16* | • CGS Monthly Dinner Meeting |
| September 16-17 | • AGS Field Trip (Denali National Park) |
| September 17* | • SPA Monthly Luncheon Meeting |
| September 24* | • NCGS Monthly Meeting |
| September 25 | • LABGS Monthly Luncheon Meeting |
| October 10* | • NWEA Monthly Luncheon Meeting |
| October 11 | • NCGS Field Trip (Point Reyes Area) |
| October 14* | • SJGS Monthly Dinner Meeting |
| October 15* | • SPA Monthly Luncheon Meeting |
| October 16* | • AGS Monthly Luncheon Meeting |
| October 21* | • CGS Monthly Dinner Meeting |
| October 29* | • NCGS Monthly Meeting |

* Tentative

HAL BOPP NAMED STATE OIL AND GAS SUPERVISOR

Hal Bopp has been named State Oil and Gas Supervisor, California Department of Conservation Director **Darryl Young** announced.

Hal, who has worked for DOC's Division of Oil, Gas, and Geothermal Resources since 1975, replaces **Bill Guerard**. After nine years as chief of the division, Guerard retired last September. **Randy Adams**, Senior Oil & Gas Engineer in Bakersfield, will serve as Acting District Deputy.

"In the search for a new State Oil and Gas Supervisor, it was crucial that we find someone who was respected not only by DOGGR staff, but also by industry and other public entities as well," Young said. "Equally critical to the position is the ability to lead the division into the future. Hal Bopp has all of those qualities."

Hal's main responsibilities will be to direct the state's oil, gas, and geothermal regulatory programs and to provide direction to a field staff that carries out programs regulating the drilling, operation, maintenance, and plugging and abandonment of wells and related facilities. He will also coordinate the division's activities with those of industry; professional, civic, and independent groups; and other governmental agencies.

Hal graduated from the University of Southern California with a degree in civil engineering in 1969. He has served in several capacities with DOGGR, most recently as District Deputy for Oil and Gas District 4 (Kern County) for 12 ½ years.

—California Division of Oil, Gas, and Geothermal Resources

PETROLEUM ENGINEER

Salary: \$5,709 - \$8,601 / Mo. plus benefits

Performs petroleum engineering work pertaining to oil field development, oil and gas production/injection operations, enhanced recovery methods, subsidence control. **REQ:** Bachelor's degree in Petroleum Engineering, **Geology**, or a closely related field **AND** Five (5) or more years of recent experience in petroleum engineering, petroleum geology, and oil field operations **AND** a current registration in California as a Petroleum Engineer. A Master's degree in Petroleum Engineering may be substituted for one year of required experience.

Apply by August 1, 2003.

PETROLEUM ENGINEERING ASSOCIATE

Salary: \$4,207 - \$6,653 / Mo. plus benefits

Under supervision, performs engineering and/or geology work pertaining to oil field development, oil and gas production operations; participates in project teams for economic and operational evaluation of field activities and reservoir surveillance; participates in evaluating procedures to ensure oil field environmental and safety reg. compliance. **REQ:** Bachelor's degree in Petroleum Engineering, **Geology**, or related field work **OR** Bachelor's degree (preferable in Business) and two or more years recent experience in petroleum engineering, oil field operations, or related operations. Wilmington Oil Field experience is desirable.

Apply by August 1, 2003.

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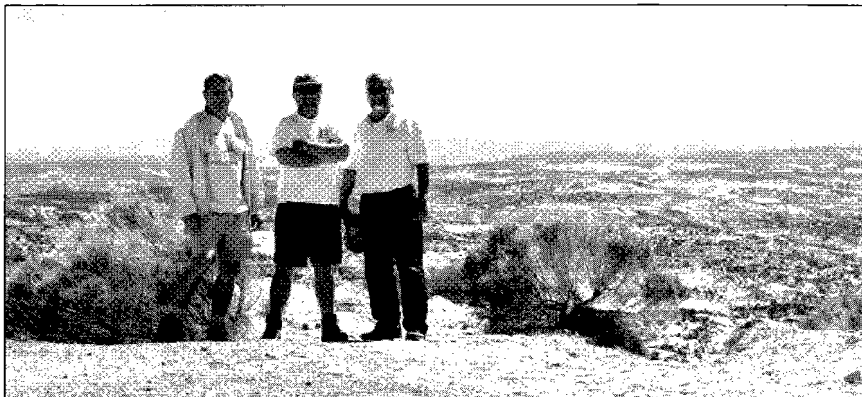
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MEMBERS ON THE MOVE — **Randy Adams**, Senior Oil & Gas Engineer with the California Division of Oil, Gas, and Geothermal Resources in Bakersfield, will serve as Acting District Deputy for Oil and Gas District 4 (Kern County) [see related item on page 15]. **Bob Countryman** won the election for Secretary of National AAPG for the 2003-2004 term. **Curtis Henderson** has been named as the Assistant Director for the Department of Oil Properties, City of Long Beach. **Kay Pitts** has been selected as a candidate for Treasurer of National AAPG for the 2004-2006 term. **Jeff Shellebarger**, Manager of Asset Development for the San Joaquin Valley Business Unit of ChevronTexaco in Bakersfield, has been appointed to the position of General Manager of Asset Development in the Southern Africa Strategic Business Unit in Luanda, Angola.



Left to right: Pacific Section members **Tony "Butch" Reid**, **Larry "Sundance" Knauer**, and **Mark "Cisco" Wilson** on their self-proclaimed "Annual Fat Man Trip." These oily hombres met up earlier this year in the Escalante area of Utah.

FRANCIS (FRANK) LOUIS AMATO

1923-2003

Frank passed away surrounded by family and friends on April 17, 2003. He was born on November 4, 1923, in Omaha, Nebraska, and was one of seven children.

He attended Northwestern University and then received his Master's in geology and paleontology from the University of Nebraska. A proud veteran of the Marines, he attended a V12 officer-training program at Notre Dame.

During Frank's professional career, he spent 40 years contributing to exploration of oil in South America, Central America, Philippines, Europe, and North Africa while working for Mobil Oil, Standard Oil, and Occidental Petroleum. During 1955-1957, Frank established his own consulting firm in Caracas, Venezuela.

Frank settled in Bakersfield in 1973. While living there, he worked for CMS for 13 years as their consultant for

Central and South America, during which time Frank played an intricate role in discovering oil in Ecuador. During 1983-1984, he was president of the San Joaquin Geological Society.

Survivors include his dedicated and loving dance partner, Peggy; daughters and their families, Toni and Tom Fleming and Valerie and Humberto Rodriguez; several grandchildren and great-grandchildren; his brothers and sister and their families, Joe Amato, Mary Hicks, Jack and Lou Amato, Carl and Barbara Amato, and Bob Amato. We will always celebrate his love for family, great sense of humor, and his passions for music, art, dancing, sports, hunting and fishing, and especially his profession.

—Excerpted from *The Bakersfield Californian*

Memorial notices, articles, and photographs may be sent to the Editor by family or friends of Pacific Section AAPG members. Materials may be condensed to accommodate newsletter space constraints and will be returned upon request.

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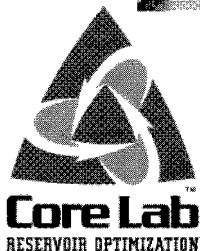
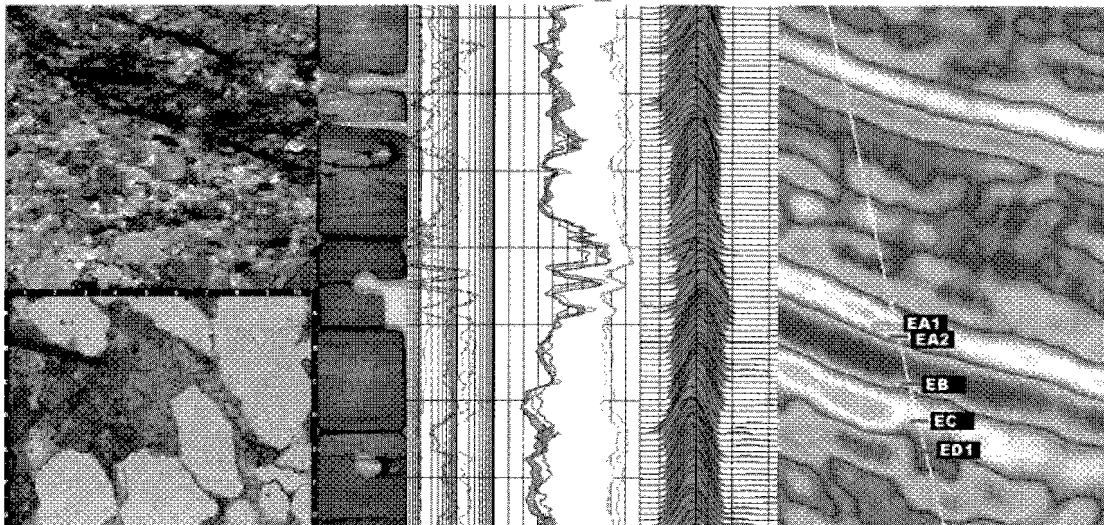
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Anchorage, AK 99518
(907) 349-3541
www.corelab.com

Washington State Geologist Licensing

The Washington State Geologist Licensing Board recently offered a brief opportunity to obtain a Washington State Geologist license or Geologist specialty license without taking an examination. Although the application deadline for grandfathering has passed (June 30, 2003), individuals may apply for licensure via examination. Special instructions and forms are available at www.dol.wa.gov/design/geofront.htm, or they can be obtained by contacting:

Leslie Saeger, Program Manager
Geologist Licensing Board
P. O. Box 9045
Olympia, WA 98507-9045
360-664-1497
lsaeger@dol.wa.gov

Mailing Address for Dibblee Geology Center

The mailing address for the Dibblee Geology Center has changed from Santa Barbara to Camarillo. The new address is:

Dibblee Geology Center
P. O. Box 2309
Camarillo, CA 93011

Seismic Budgets Appear Safe

Recent proposals to suspend State funding for two key California Geological Survey (CGS) programs—Seismic Hazards Zoning Program and Strong Motion Instrumentation Program—have been rejected by legislators, following a grass-roots effort by seismic activists to inform and educate them about the programs. The proposed budget cuts might have led to the abolishment of the programs and the elimination of more than half of CGS staff. For information, see <http://www.seismicactivist.homestead.com>.

[Editor's note: As of this writing, the State budget has not passed.]



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**Consulting Petroleum Geologist
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Development – Thermal EOR – Property Reviews

2027 Park Drive
Los Angeles, CA 90026

H (323) 664-3358
dbdelmar@earthlink.net

The Geolog ad in the 2003-2004 Pacific Section Membership Directory reflects some information that is out of date.

▼ Please refer to this ad for the current information. ▼

Geolog



ERNE BURROUGHS
President

GEOLOGICAL LOGGING INC.
P. O. Box 255126
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AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

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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 September & October 2003 issue is August 4, 2003.

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

July & August 2003 password: fracture
September & October 2003 password: sequence

CONTRIBUTORS TO THIS ISSUE:

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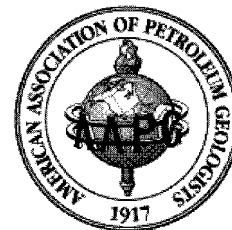
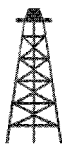


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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

September & October • 2003

Message from the President: *Geology is Everywhere*

One thing that's really great about the earth sciences is how tangible our profession is in aspects of everyday life. As geologists, we don't just leave it behind when we leave the office, plant, or factory at the end of the day. We walk on geology, drive on and through it, build our homes on it, and utilize natural resources derived from the earth in almost every area of our lives. Geology is truly everywhere!

It's amazing too how much interest in geology there really is out there with the general public. In June, my family and I had the pleasure of chartering a sailboat in the British Virgin Islands. One of the stops we made was in an area called "the Baths," where huge granitic boulders form a maze of paths and tunnels with tidal pools along the shoreline of an island. It looked like something Disney would create, but it is all natural. As we explored the area, I heard someone talking about plutons, inclusions, uplift, and erosion. Rounding a corner, we came upon a guy surrounded by about ten tourists, describing the geology of the area and the processes that created this natural wonder. Everyone seemed fascinated with the discussion. A few days later, we were on a small sandy island that was fringed with coral on several sides. We got to talking with another couple, and the lady commented on how interesting the rock formations in the islands were and she wondered if we were standing on some type of granite. This was my cue. I told her that we actually were standing on a bedded limestone deposit formed by coral debris that was so abundant in the area. We talked for quite a while about the geology of the area, and finally she said, "Wait here. I want you to talk to my daughter. She's a freshman at Penn State, and this is an area she would be interested in going into." I don't know if I actually recruited another geology major, but we had a great conversation, and I was impressed with their interest in the subject.

I guess the point is that there is a great interest in earth science out there. We geologists are uniquely positioned to cultivate that interest, whether it be talking to some fellow tourists on a Caribbean island or giving a presentation to a classroom of third-graders. This year, I would like to make educational outreach a real priority for the Pacific Section. There really is a lot of interest out there, and I think great opportunities exist to promote the geological sciences at all levels. Geology truly is everywhere.

Continued on page 2

PACIFIC SECTIONS AAPG • SEPM • SEG

2004 ANNUAL MEETING

May 8-12, 2004
Bakersfield, California

FIRST CALL FOR PAPERS

It's time to start preparing your abstract for the next Pacific Section AAPG • SEPM • SEG Convention, which will be held May 8-12, 2004, at the Holiday Inn Select in Bakersfield.

Technical Program Co-Chairs:

Don Miller, Aera Energy
ddmiller@aeraenergy.com

&

Mike Richey, ChevronTexaco
michaelrichey@chevrontexaco.com

Technical sessions already in place include:

- Geology of Thermal Projects
- Geology and Paleogeography of the San Joaquin Basin
- Deep Gas Plays
- Techniques in Geostatistical Modeling

Session Chairs and topics are still being accepted. Please contact Don or Mike to volunteer your help or ideas.

The printed Call for Papers will be mailed in September, and relevant information will be posted at that time on the Pacific Section website:

www.psaapg.com

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MESSAGE FROM THE PRESIDENT *Continued from page 1*

Finally, congratulations and a warm welcome to the new members of the Executive Committee: President-Elect **Steve Sanford**, Vice President **Jon Schwalbach**, Secretary **Mike Wracher**, and Treasurer **Nancy Wildman**. **Cathie Dunkel** is continuing as Newsletter Editor, and I'm sure I'll be bothering Past President **Tom Hopps** for his wisdom in the months to come. Also, the 2003-2004 dues statements have been sent out. Please take the time to fill them in and write that check. Dues are only \$12. What a deal!

—Allen Waggoner, *President, Pacific Section AAPG*

J.M. "BUZZ" DELANO, JR.
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KILKENNY GRANT AWARDED FOR RESEARCH IN ALASKA

The 2003 John E. Kilkenny Memorial Grant was awarded to **James Kalbas**, Ph.D., studying at Purdue University. His research is entitled *Sedimentary Record of Cretaceous Terrane Accretion and Tertiary Strike-Slip Deformation in SW Alaska*.

The John E. Kilkenny Memorial Grant was initiated and funded as a Pacific Section AAPG grant, and was later transferred to the AAPG Foundation for administration through its Grants-in-Aid Program, which ensures that highly qualified graduate students receive grants for their research projects. John Kilkenny was a longtime member and supporter of the Pacific Section. Among his many contributions, he was President of the Pacific Section and National AAPG.

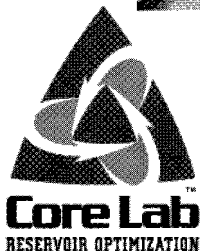
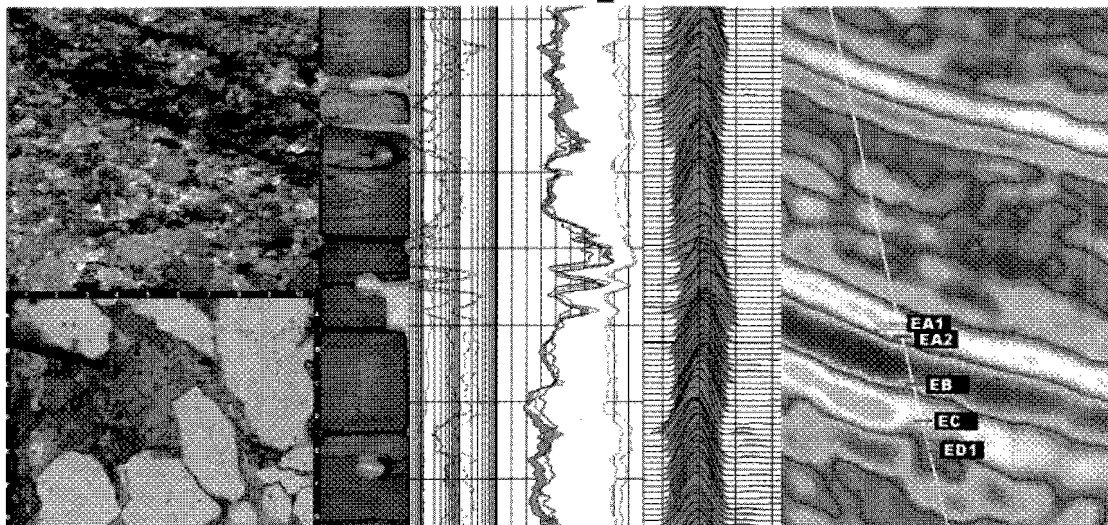
The Pacific Section encourages and welcomes contributions to the John E. Kilkenny Memorial Grant. For more information about the grant or to make a donation, please contact Mark Wilson at markwilson@chevrontexaco.com or 661-395-6364.



Don't forget to renew your membership in the Pacific Section AAPG!

Your membership renewal form is on its way!

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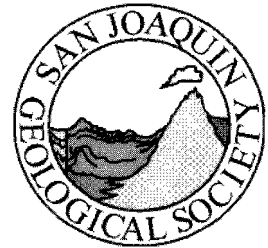


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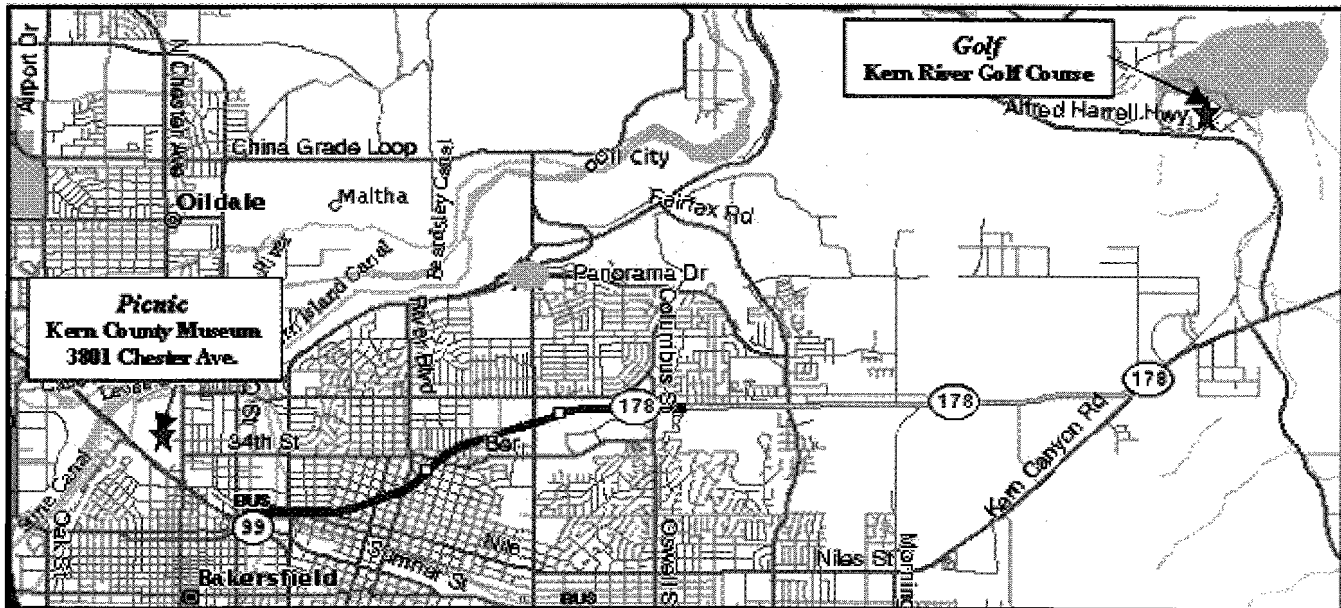
San Joaquin Geological Society

Society of Exploration Geophysicists and
San Joaquin Well Logging Society



Annual Fall Barbecue and Golf Scramble

Friday, September 5, 2003



FAMILY BARBECUE AND RAFFLE

Onsite BBQ by Alan and Dwight, featuring tri tip, sausage, and all the fixin's.
At the Kern County Museum – Oil Exhibit will be open to tour.

RSVP: \$15.00, \$18.00 at Gate, Students: \$7.50, Children: \$5.00
Happy Hour 5:00 p.m., Dinner 6:00 p.m.

For BBQ reservations contact: Roy Burlingame at rburlingame@bak.rr.com or (661) 204-3016

BBQ RSVP – September 2, 2003 by 4:00 p.m.

Cut on line and return

GOLF TOURNAMENT at KERN RIVER GOLF COURSE (next to Lake Ming)

Foursome

Circle Affiliated Society(ies)

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Contact Phone # _____

Preferred Starting Time _____

Total _____ \$ _____

Place: Kern River Golf Course
Time: 8:00 a.m. (earliest tee time)
Cost: \$50.00 per person includes:
(green fees, cart, lunch, & prizes)



Golf questions & reservations contact: Roy Burlingame at rburlingame@bak.rr.com or (661) 204-3016

RESERVATION DEADLINE: August 28, 2003

Mail Tournament Checks to: SJGS P.O. Box 1056 Bakersfield, CA 93302

Data Determines Direction.

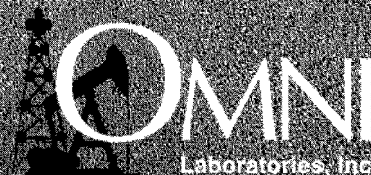
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NEW USGS REPORT PRESENTS DATABASE OF CHEVRON FORAMINIFER SAMPLES IN CALIFORNIA

Earl Brabb has compiled a database for an extensive collection of Chevron's foraminifer samples in California, and the results are presented in a series of digital files that are available only through the U.S. Geological Survey website. The digital files consist of an 11-page report in a PDF file, a readme file about the data in PDF and ASCII text files, and five data sets, each in PDF and Excel files. All the files are accessible at <http://geopubs.wr.usgs.gov/open-file/of03-167/>. An introductory excerpt from the report is presented below. Questions about the report should be directed to Earl Brabb at ebrabb@earthlink.net.

U.S. Geological Survey Open-File Report 03-167

Location and Age of Foraminifer Samples Collected by Chevron Petroleum Geologists in California

By Earl E. Brabb and John M. Parker

Introduction

Most of the geologic maps published for parts of central California in the past century have been made without the benefit of ages from microfossils. The ages of Cretaceous and Tertiary rocks in the mostly poorly exposed and structurally complex sedimentary rocks represented in the Coast Ranges are critical in determining stratigraphic succession or lack of it, and in determining whether the juxtaposition of similar appearing but different age formations means that a fault is present. Since the 1930's, at least, oil company geologists have used microfossils to assist them in geologic mapping and in determining the environments of deposition of the sediment containing the microfossils. This information has been so confidential that even the names of species have been coded to prevent disclosure. In the past 20 years, however, the attitude of petroleum companies about this information has changed, and many of the formerly confidential materials and reports are now available. We report here on 33,540 Chevron foraminifer samples from surface localities in nearly 600 U.S. Geological Survey 7.5' quadrangles in California. To our knowledge, this collection is the largest ever released by a petroleum company for the West Coast. The information from the slides can be used to update geologic maps prepared without the benefit of microfossils, to analyze the depth and temperature of ocean water covering parts of California during the Mesozoic and Cenozoic Eras, and for solving nomenclature and other scientific problems.



SPA PRESIDENT TO STRENGTHEN TIES BETWEEN DOE & PETROLEUM INDUSTRY

Rick Blake of Lawrence Livermore National Laboratory (LLNL) has been selected as Associate Program Leader for Fossil Energy Technologies. In his new position, Rick will be responsible for fossil energy resource characterization, development, and exploration. He will represent LLNL on the U.S. Department of Energy (DOE) Natural Gas and Oil Technology Partnership, and he will serve as the Fossil Energy Technical liaison between LLNL, industry, universities, and DOE. His vision is to build a nationally recognized R&D fossil energy program at LLNL that will include oil and gas exploration and production focus areas, as well as alternative exploration concepts such as coal bed methane, methane hydrates, basin centered gas, and oil shale.

Rick has extensive experience conducting oil and gas exploration projects throughout California, where he spent 12 years working for the Natural Gas Corporation as an Exploration Geologist, and for Fleet Oil Company as Exploration Manager and Vice President. For the last ten years, he has also served as a

consultant to numerous California oil and gas operators and maintains a network of industry contacts.

He holds a M.S. degree in geology from California State University, Los Angeles; he is a California Registered Geologist, the President of the Sacramento Petroleum Association, and a member and delegate to AAPG. He currently serves as Vice President of the California Council of Geoscience Organizations and will become its President in 2004. Rick has received AAPG's two highest awards for presentations — the A. I. Levorsen Memorial Award for best oral presentation and the H. Victor Church Memorial Award for best poster presentation at Pacific Section Conventions.

Rick looks forward to strengthening the technical relationship between LLNL and the petroleum industry, and he encourages interested parties to contact him at LLNL at blake2@llnl.gov or 925-422-9910.

Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

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



Luncheon meetings are usually held on the third Thursday of the month (except June through August) 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 tentatively scheduled for October 16. For reservations, call the AGS reservation voice line (263-4232) or e-mail **Art Banet** (arthur.banet@mms.gov) before noon on Monday before the meeting.



AGS will host a field trip, led by **Phil Brease** of the National Park Service, to study the geology and glacial history of Denali National Park on September 16-17. For information, see www.alaskageology.org/fieldtrips/denali_trip.pdf.

Coast Geological Society

www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Philip Kinney
805-230-1266 ext. 224



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will be held at the Veterans of Foreign Wars Hall at 3801 Market Street in Ventura until further notice (check the CGS website for details). 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 September 16 and October 21. Reservations can be made by e-mail to cgs.rsvp@sbcglobal.net, by phone (to **Dave Brown**) at 805-653-7975, or by fax at 805-653-7452. Reservations are due by 4:00 p.m. on Friday before the meeting.



CGS will host the 5th Annual John J. Woolley Memorial Golf Tournament at Elkin's Ranch on October 10. For information, contact **Phil Kinney** at 805-230-1266 ext. 224.

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 usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. The next meetings are scheduled for September 25 and October 23. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



LABGS was pleased to present two scholarship awards in 2003 to encourage and recognize college students who have shown dedication and passion to the field of geoscience. The awards, which consist of a Brunton compass and a wall certificate, were presented at the June 26 LABGS meeting.



The winner of the Don Clarke Brunton Award was **Canie Victoria Brooks**, who graduated this year with an A.S. degree in geology from Long Beach City College. She is committed to pursuing a bachelor's degree at Long Beach State, starting in the fall. The award is given to a qualified student who is graduating from an L.A. Basin community college with an associate degree, is enrolled in a geology or earth science curriculum, and plans to pursue a baccalaureate degree in geology or the earth sciences.



The winner of the LABGS Brunton Award was **Steve Turner** from California State University, Fullerton. Steve is a senior currently pursuing a B.S. in geology with plans to graduate this fall. The award is given to a qualified undergraduate student who is attending a four-year L.A. Basin college or university and is currently pursuing a baccalaureate degree in geology or the earth sciences.

Northern California Geological Society

www.ncgealsoc.org

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Mark Detterman
mdetterman@blymyer.com



Evening meetings are usually held on the last Wednesday of the month (except June through August) 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 September 24 and October 23. 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 will hold a field trip to the Point Reyes area on September 27. The trip will be led by Consultant **Tom MacKinnon** and John (Rusty) Gilbert of ChevronTexaco. For more information, contact NCGS Field Trip Coordinator **Jean Moran** at jeanm@stetsonengineers.com.



Dan Day has left his position as NCGS newsletter editor, but will assist the new editor, **Mark Detterman**. Dan was the secretary or newsletter editor for NCGS for nearly ten years, and he was recently acknowledged by NCGS members for his outstanding contributions. **Ron Crane** was also acknowledged for his contributions to NCGS, including leading field trips, serving as Vice President and President, and making presentations at monthly meetings.

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Jim Jackson
503-771-3887



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. The next meeting is tentatively scheduled for October 10. The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Treck Cardwell** at 503-226-4211 ext. 4681.



NWEA is planning its Fall Symposium, which will be held in Bend, Oregon, in September. For information, contact **Jim Jackson** at 503-771-3887.



NWEA is pleased to welcome its officers for the 2003-2004 term: **Ron Gullberg** (President-Elect), **Tim Richter** (Vice President), **Jamie Schick** (Secretary), and **Treck Cardwell** (Treasurer). New directors are **Bob Burnham**, **Todd Thomas**, and **Dick Dyrman**.

Sacramento Petroleum Association

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

Contact: Rick Blake
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. Upcoming meetings are scheduled for September 24 and October 15. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. Anyone interested in giving a presentation at a monthly meeting should contact **Rick Blake** at 925-422-9910 or blake2@lln.gov.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Cynthia Huggins
661-763-6303



Dinner meetings are usually held on the second Tuesday of the month (except July through September) 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 October 14. 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 will hold its Annual Fall Barbecue & Golf Tournament on September 5 in Bakersfield. The barbecue will be held at the Kern County Museum, and the golf tournament will be held at the Kern River Golf Course. For information, see page 3.

Schedule of Events

SEPTEMBER & OCTOBER 2003

September 5 — Annual Fall Barbecue & Golf Scramble
Location: Kern County Museum, Bakersfield (barbecue)
Kern River Golf Course, Bakersfield (golf)
For information, see page 3.

September 16 — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA

September 16-17 — AGS Field Trip
Topic: Geology and Glacial History of Denali National Park and Vicinity
Leader: Phil Brease (National Park Service)
For information, see www.alaskageology.org/fieldtrips/denali_trip.pdf.

September 24* — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: TBA

September 24 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: Al Garcia (California Energy Commission)
Title: California Energy Crisis

September 25 — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Centre, Long Beach
Speaker: TBA

September 27 — NCGS Field Trip
Topic: Geology of the Point Reyes Area
Leaders: Tom MacKinnon (Consultant) & John (Rusty) Gilbert (ChevronTexaco)
For information, contact NCGS field trip coordinator Jean Moran at jeanm@stetsonengineers.com.

October 10* — NWEA Monthly Luncheon Meeting
Location: Multnomah Athletic Club, Portland
Speaker: TBA

October 14 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield
Speaker: TBA

October 15 — SPA Monthly Luncheon Meeting
Location: Hungry Hunter Restaurant, Sacramento
Speaker: Rick Stanley (U.S. Geological Survey)
Title: Miocene petroleum and strike-slip displacement along the San Gregorio fault, Northern California

October 16* — AGS Monthly Luncheon Meeting
Location: Anchorage Hilton, Anchorage
Speaker: TBA

October 21* — CGS Monthly Dinner Meeting
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA

October 23 — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Centre, Long Beach
Speaker: TBA

October 23 — NCGS Monthly Meeting
Location: Masonic Center, Orinda
Speaker: John Delaney (University of Washington; AAPG Distinguished Lecturer)
Topic: Volcanoes, Oceans, and Life in Our Solar System

UPCOMING EVENTS

- November* • NCGS Field Trip (Mt. Burdell)
- November 11* • SJGS Monthly Dinner Meeting
- November 14* • NWEA Monthly Luncheon Meeting
- November 18* • CGS Monthly Dinner Meeting
- November 19* • SPA Monthly Luncheon Meeting
- November 20* • AGS Monthly Luncheon Meeting
- November 20 • LABGS Monthly Luncheon Meeting
- November 20 • NCGS Monthly Meeting
- December 9 • SJGS Monthly Dinner Meeting
- December 12* • NWEA Monthly Luncheon Meeting
- December 16* • CGS Monthly Dinner Meeting
- December 17* • SPA Monthly Luncheon Meeting
- December 18* • AGS Monthly Luncheon Meeting

* Tentative

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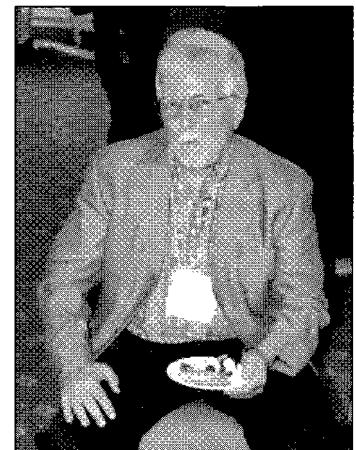
NEW & REINSTATED MEMBERS — **Ivan Aburto**, *BreitBurn Energy Company LLC*, Glendora, CA • **Robert E. Anderson**, Pasadena, CA • **Jennifer L. Barr**, *West Coast Environmental*, Ventura, CA • **Charles E. Blair**, Lompoc, CA • **Carl A. Evans**, *Matris Exploration Co.*, Houston, TX • **Susan L. Griesbach**, *4th Wave Imaging*, Aliso Viejo, CA • **Louie Hengehold**, *Hopkins Groundwater Consultants, Inc.*, Ventura, CA • **Maty Beth Kile**, *Advanced Geotechnical Services*, Camarillo, CA • **Lawrence N. Levee**, *West Coast Environmental & Engineering*, Northridge, CA • **Michael A. Palmer**, *Hargis & Associates Inc.*, San Diego, CA • **James E. Slosson**, *Slosson and Associates*, Van Nuys, CA • **Edward Ustan**, *Kern County Oil Co.*, San Bernardino, CA

MEMBERS ON THE MOVE — **Rick Blake** of Lawrence Livermore National Laboratory has been selected as Associate Program Leader for Fossil Energy Technologies (see article on page 5). **Bob Cohan**, President of Aspen Exploration Corporation's West Coast Division in Bakersfield, has been promoted to President, CEO, and chief financial officer of Aspen in Denver.

HONORS & AWARDS — **John Cooper** of California State University, Fullerton, is the 2003 recipient of SEPM's A. Eugene Fritsche Lifetime Achievement Award; the award recognizes outstanding and long-term dedication to teaching, professional work, and SEPM. The award was presented at the 2003 Pacific Section Convention in Long Beach following a symposium about Great Basin Lower Paleozoic stratigraphy, which was held in his honor. **Robert Francis**, Professor at California State University, Long Beach, is the winner of the H. Victor Church Memorial Award for the best poster presentation at the 2003 Pacific Section Convention in Long Beach; the poster, entitled *Segmentation in the Palos Verdes Fault, San Pedro Bay and Detachment Attenuation within the Inner Continental Borderland, Offshore Southern California*, was co-authored by Mark Legg of Legg Geophysical and Don Hallinger of Cerritos College. The award will be presented at the 2004 Pacific Section Convention in Bakersfield. **Morgan D. Sullivan**, Assistant Professor at California State University, Chico, is the winner of the A. I. Levorsen Memorial Award for the best oral presentation at the 2003 Pacific Section Convention in Long Beach; the paper, entitled *Fluvial-Deltaic Cyclicity, Ridge Basin, Southern California: Evidence for Kinematic Cyclostratigraphy*, was co-authored by Kenneth Ehman of Skyline Ridge, Inc. The award will be presented at the 2004 Pacific Section Convention in Bakersfield.



Rick Blake, new Associate Program Leader for Fossil Energy Technologies at Lawrence Livermore National Laboratory. He is an active member of AAPG, serving as President of the Sacramento Petroleum Association and as a member of the AAPG House of Delegates.



John Cooper, recipient of SEPM's A. Eugene Fritsche Lifetime Achievement Award, which was presented at the 2003 Pacific Section Convention in Long Beach.



Faculty and alumni of the Department of Geological Sciences at California State University, Northridge, gathered at the 2003 Pacific Section Convention in Long Beach. Front row, left to right: Professor **Peter Weigand** (recipient of the 2003 Distinguished Teacher Award), Professor Emeritus **Eugene Fritsche**, and Professor **George Dunne**. Back row, left to right: Alumni **Bob Countryman**, **Mark Osborne**, **Cathie Dunkel**, **Don Clarke**, **Harold Syms**, and **Terry Thompson**.

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AAPG ADVISORY COUNCIL

Don Lewis, who served as AAPG Vice President in 2001-2002, has resumed his role as Pacific Section representative on the AAPG Advisory Council. **Don Clarke** served on the council during Don's term as Vice President, and **Bob Countryman** served as an alternate representative. Thanks to both Dons and Bob for representing our section on the council.

The AAPG Advisory Council advises the Executive Committee of AAPG on a variety of matters regarding the Association, including ethics and discipline, long-range planning, constitutional review, nominations for officers, and honors and awards. The council is composed of elected members from the Association's domestic sections and international regions, as well as ex-officio members who serve as chairs.

Bits & Pieces

California Seismic Safety Programs to Continue

Overwhelming grass-roots support for the State of California's seismic safety programs turned the tide against proposed budget cuts that would have suspended the programs and potentially led to the abolishment of the California Geological Survey. The proposed general-fund cuts were removed from the final State budget, which was approved in August, thanks to numerous individuals, geological organizations, and other activists who helped inform and education legislators about the importance of these programs.

Earth Science Photographic Archive

The U.S. Geological Survey (USGS) recently launched an on-line photographic archive collection from the USGS Photo Library. The collection of images — which emphasizes geology, national parks and monuments, earthquakes, the 1980 eruption of Mount St. Helens, pioneer photographers, and mining operations — consists of more than 18,000 photos ranging in age from 1868 to present. The photos are not copyrighted and maybe viewed and downloaded free of charge. All photos are available in variable (i.e., 100, 700, and 1400 dots-per-inch) resolution. The archive is accessible at <http://libraryphoto.er.usgs.gov/>. Sample photos shown at right.

NAME THAT MEMBER !

Question: Which Pacific Section AAPG member:

- Served as President of the Pacific Section 50 years ago?
- Walked on the frozen Arctic Ocean during a Pacific Section field trip to the North Slope last year?
- "Society hops" between current meetings of the Los Angeles Basin Geological Society, Coast Geological Society, and San Joaquin Geological Society?
- Has an insatiable interest in geology?

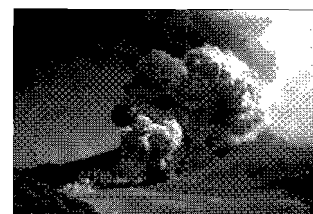
See answer below.

Russ was President of the Pacific Section in 1953 and is among those with the longest period of sustained membership. Don Clarke and others will help us profile Russ in an upcoming issue of the newsletter.

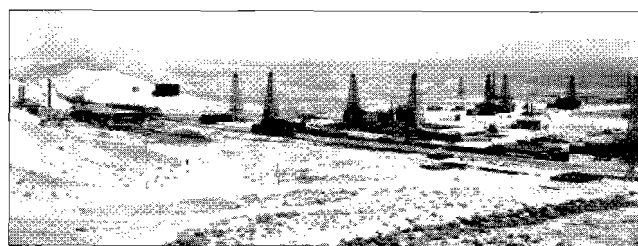
Answer: Russ Simonson



Rainbow Bridge National Monument, Utah. Telephoto view of Rainbow Bridge, looking upstream. 1959.



Time lapse of Mount St. Helens eruption, pyroclastic flow of August 7, 1980. Skamania County, Washington.



A panorama of Sunset oil field, looking northeast, east, and southeast from Occidental property one mile northwest of Maricopa. Kern County, California. October 1908.

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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 2003 issue is October 6, 2003.

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

*September & October 2003 password: sequence
November & December 2003 password: prospect*

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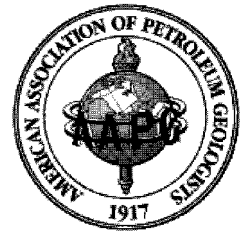
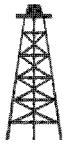
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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

November & December • 2003

Message from the President: *Change*

California has always been kind of a strange place to live and a very strange place to try to do business, but these are truly strange times indeed. I just finished voting in our first recall election and have been listening to the election returns and analysis by the talking heads for most of the day. By the time this column hits the newsletter, there may have been some significant changes in California's government. Hopefully, those changes are for the good and will equate to a more positive business climate in general, but especially for the petroleum industry and related geoscience jobs in the state.

Speaking of change, there are several changes happening in the Pacific Section. **Allen Britton**, Chair of our Membership Committee, will be changing addresses soon as he makes a move to Houston. Thanks, Allen, for your service on the Membership Committee as well as your service as President (2001-2002) and Newsletter Editor (1996-2000). Best of luck in the big city! Replacing Allen on the Membership Committee will be **Terry Thompson**, who will be moving from his position as Chair of the Youth Activities Committee. Thanks, Terry, for your continued service. The Youth Activities Committee has primarily been responsible for promoting the Teacher-of-the-Year Award program at the Pacific Section and local society levels. I'm proud to announce that **Sandra Szymanski** has agreed to take over as Chair of the Youth Activities Committee. Over the year, I hope to work with Sandra to expand youth activities to include an earth science educational outreach program for schools through our local affiliated societies. Thanks, Sandra, for stepping up and serving.

Pacific Section has probably undergone some significant changes over the last 50 years. One person who would know is **Russ Simonson**. Russ was elected and served as President of Pacific Section in 1953, and you can still find him hanging out at monthly meetings of the Los Angeles Basin and San Joaquin Geological Societies. In honor of the 50th anniversary of his presidency, Russ will be recognized at the LABGS luncheon meeting on October 23 and the SJGS dinner meeting on November 11. Russ should be well rested after 50 years, and I've heard he may be ready for a second term. Congratulations Russ!

On a sadder note, Pacific Section member **Dr. Peter Weigand** passed away on September 25 after having heart surgery. Dr. Weigand was a Professor of Geology at California State University-Northridge and an enthusiastic and valued member of Pacific Section. He received the Distinguished Educator Award at the 2003 Pacific Section Convention in Long Beach. Dr. Weigand was greatly respected as both a professional and a friend by many, and he will be greatly missed.

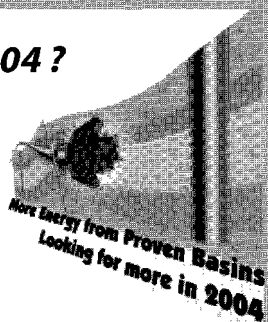
Although it's only early fall, plans for the 2004 Pacific Section Convention are moving right along. General Chair **John Howe** has his Convention Committee working hard on all of the details, and I'm sure we can look forward to a great meeting on May 8-12 in beautiful Bakersfield. By the time this newsletter hits the street, the Call-for-Papers mailer will be out. If you have an idea for a presentation or session topic, contact technical session Co-Chairs **Don Miller** (ddmiller@aeraenergy.com) or **Mike Richey** (michaelrichey@chevrontexaco.com). May 2004 will be here before you know it!

—Allen Waggoner, President, Pacific Section AAPG

Looking for more in 2004 ?

HEED THE CALL
for Papers

See page 6 !



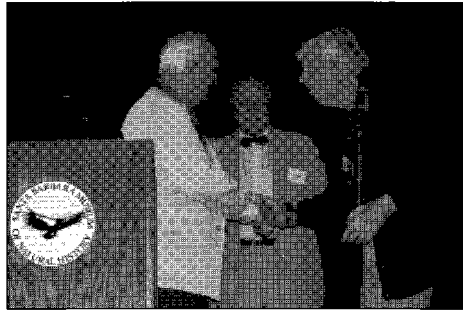
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THOMAS L.T. GROSE AWARDED DIBBLEE MEDAL

Dr. Thomas L.T. (Trobe) Grose, Professor of Geology and Geological Engineering at Colorado School of Mines since 1964, has been awarded the prestigious Dibblee Medal for 2003. Dr. Grose has had a distinguished career in geological education and research, with much of his research involving geological mapping, and he has made a significant and outstanding contribution to the science of geology through his geological mapping activities over the past four decades. The award presentation took place as part of a special luncheon on October 11, 2003, at the Santa Barbara Museum of Natural History.

Dr. Grose received bachelor's and master's degrees in geology from the University of Washington and a Ph.D. in geology from Stanford University. Prior to joining Colorado School of Mines, he was an Associate Professor of Geology at Colorado College. His extensive geologic



Trobe Grose, left, receives the Dibblee Medal from **Tom Dibblee**, right, with **Siegfried Muessig** assisting in the award ceremony.

THE DIBBLEE MEDALLISTS

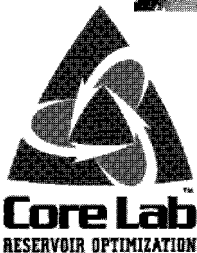
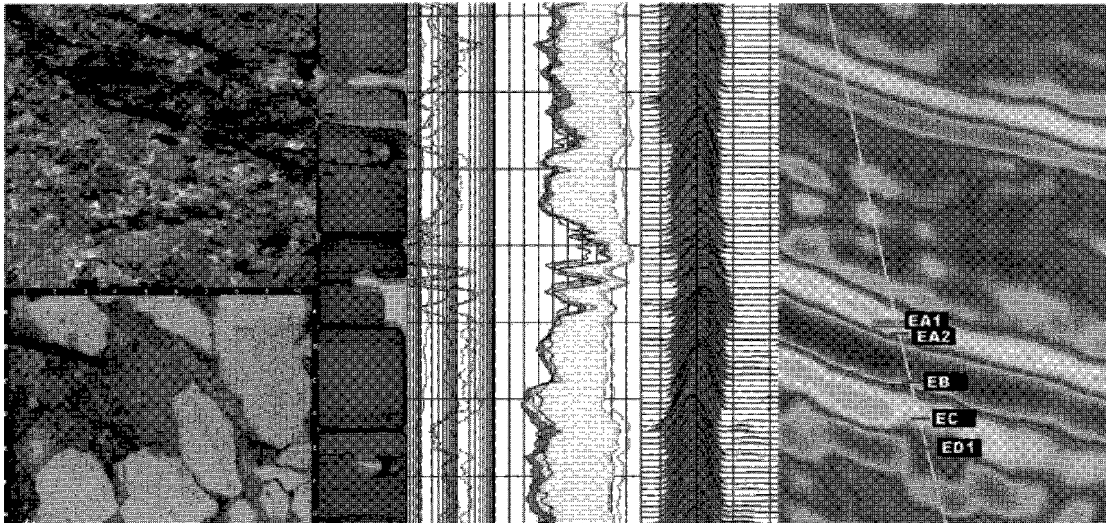
Lehi F. Hentze, 1994
Peter D. Rowley, 1995
John (Jack) G. Vedder, 1996
Parke D. Snavely, Jr., 1997
Clarence A. Hall, Jr., 1998
F. Bartlett (Bart) Ekren, 1999
Thomas A. Steven, 2000
William P. Brosge, 2001
Gordon Gastil, 2002
Thomas L.T. (Trobe) Grose, 2003

field experience includes mapping, petroleum exploration, coal and mineral exploration, hydro-geology, earthquake safety, and geothermal energy throughout the Western U.S. and in Puerto Rico, Peru, Australia, Hawaii, and Samoan Islands. His published geologic maps include more than 30 maps in California (covering parts of San Bernardino, Lassen, Plumas, Modoc, and Shasta counties), Colorado, and Nevada.

The Dibblee Geology Center of the Santa Barbara Museum of Natural History and the Thomas Wilson Dibblee, Jr. Geological Foundation award the Dibblee Medal annually to a field geologist who has made outstanding contributions to the science of geology by the quantity and quality of his geological field mapping and his published work for the benefit of others.

—*Dibblee Geological Foundation*

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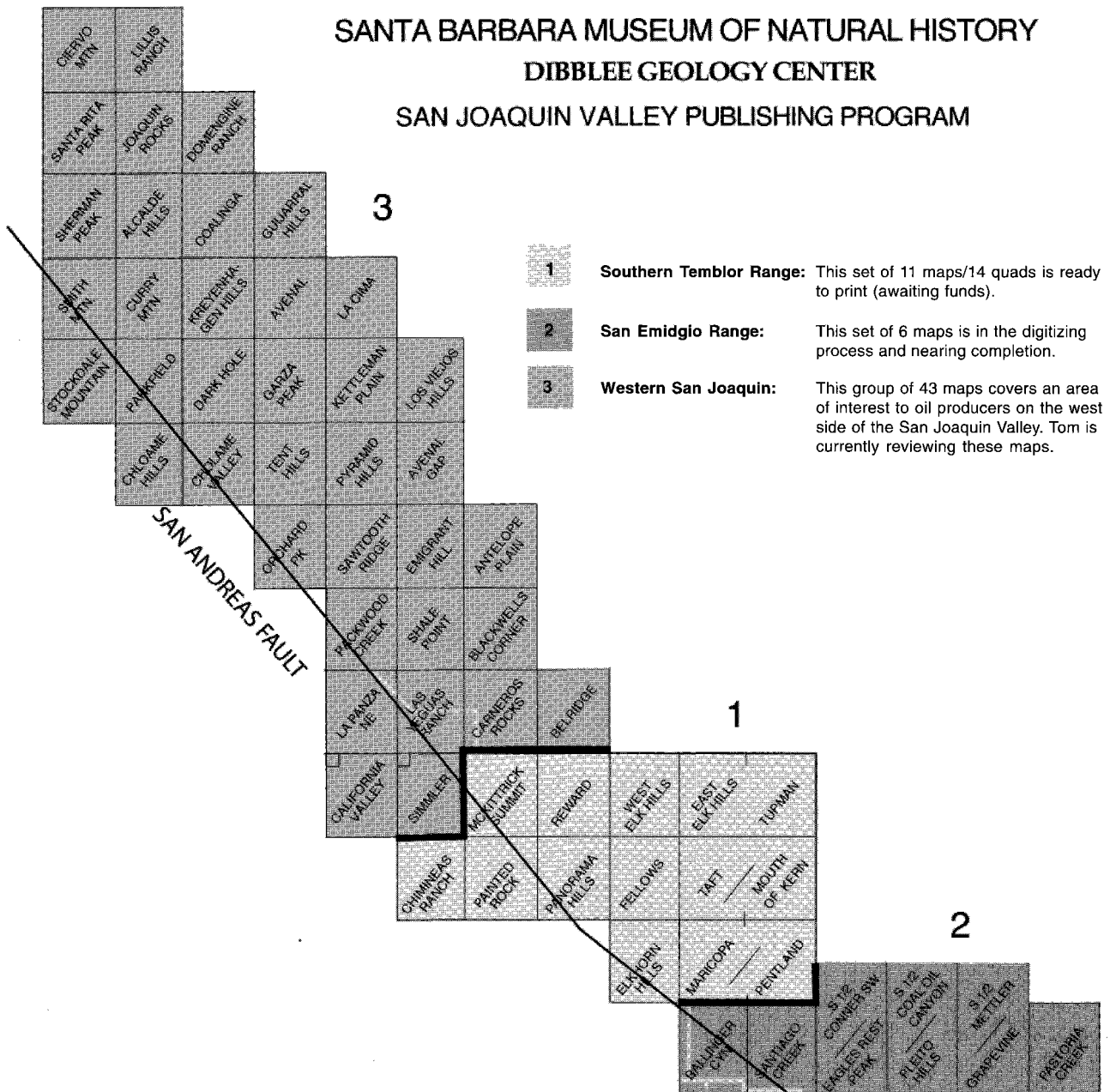
www.corelab.com

DIBBLEE MAP NEWS: San Joaquin Valley Publishing Program

The Dibblee Geology Center of the Santa Barbara Museum of Natural History and the Dibblee Geological Foundation have embarked on a program to publish most of the Dibblee geologic maps that are north and east of the San Andreas Fault in the San Joaquin Valley. This area has been identified as of potential interest to the petroleum industry. This series of maps will provide the basic geology of the San Joaquin Valley in a uniform form at a very useable scale.

The first maps in this series include the area around the southern Temblor Range. This set of 11 maps is finished and awaits funds to go to press. The second group of maps, which is nearly completed, covers the San Emidgio Range. This set of 6 maps covers the geology around the southern border of the San Joaquin Valley. From these two sets we are proceeding northward to complete the Temblor Range and then areas to the north of Coalinga. At a rate of 50 to 60 maps per year, we will finish the project in 2004.

Funding is needed to make this project a reality! Participants in the program will have the opportunity to access the maps in digital format. For information, contact **John Powell** at dibleemap@adelphia.net or 805-987-5846.



Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Rocky Reifensstuhl
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 November 20 and December 4 (first Thursday). 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 is seeking a volunteer to be its Government Affairs representative. If you are interested, contact any AGS Board member (see the AGS website).



AGS annual memberships will expire on November 1 and should be renewed to ensure continued receipt of the newsletter. Dues for new and renewed memberships will increase to \$15 effective November 1.

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 November 18 and December 16. 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 needs volunteer barbecue cooks and others to help prepare meals at monthly dinner meetings. Group (company) and individual volunteers will be welcomed. If interested, contact any CGS officer (see contact information at www.coastgeologicalsociety.org).



CGS welcomes its new officers for the 2003-2004 term: **Scott Simmons** (President), **Jordan Kear** (Vice President), **Scott Moors** (Treasurer), and **Shaun Simon** (Secretary). They took office in October.

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 meeting is scheduled for November 20. 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 is pleased to announce that **Javed Azam** has volunteered to serve as Vice President for the remainder of the 2003-2004 term. The office of Treasurer is still vacant, and volunteers are encouraged to contact **Dalton Lockman** at 323-298-2242.



Dick Brown is organizing a field trip to examine the Catalina Schist on the Palos Verdes peninsula. The trip is tentatively scheduled for Spring 2004. If you are interested in helping, contact him at 562-598-0595.

Northern California Geological Society

www.ncgeolsoc.org

9 Bramblewood Court
Danville, CA 94506-1130Contact: 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 meeting is scheduled for November 19 (third Wednesday). 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 has reduced the student cost for monthly meetings from \$5 to \$1 to help make the meetings more affordable and encourage more students to attend. The cost includes pre-meeting munchies and a liquid refreshment.



NCGS has issued the Call for Nominations for its 2004 Competition for Earth Science Teacher of the Year. For information, contact **John Stockwell** at 510-526-5346 or kugeln@msn.com.

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 meetings are tentatively scheduled for November 14 and December 12. 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 AssociationP.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 meeting starts at noon. The next meeting is tentatively scheduled for November 19. 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@ltnl.gov, or **Pam Ceccarelli** at 916-322-1097 or pceccare@consvr.ca.gov.



The Gas Patch Holiday Party will be held on December 5 at the Radisson Hotel in Sacramento. Tickets are \$45 per person. For reservations or more information, contact **Mary Dinwoodie** at 916-482-2847 or tilegal@aol.com.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302Contact: 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 November 11 and December 9. 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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FIRST CALL FOR PAPERS
Pacific Sections AAPG/SEPM/SEG
2004 Annual Meeting

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

Technical Program Co-Chairs are:

Don Miller & Mike Richey
ddmiller@aeraenergy.com michaelrichey@chevrontexaco.com

Technical Sessions already in place include:

San Joaquin Basin Petroleum Assessment Symposium
Paleogeography of the San Joaquin Basin
Los Angeles and Other Coastal Basins
Turbidites
Great Valley Deep Gas Plays
Advances in Geophysics (SEG)
Paleontology (SEPM)
Environmental Geology
Shale Secrets - Projects in the Monterey Shale
Reservoir Re-Characterization in Mature Fields
Tectonics and Structural Geology (SEPM)
Thermal Projects
Reservoir Modeling
Formation Evaluation and Near Wellbore Environment
Controversial Theories (Sentuer de Boue in the oil patch)

Session Chairs and topics are still being accepted. Please contact Don or Mike to volunteer as a session chairman or to submit an abstract.

www.psaapg.org



NOVEMBER & DECEMBER 2003

November 11 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield
Speaker: John Gibson
Title: Ethics of the Oil Patch

November 14* — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland
Speaker: TBA

November 18 — CGS Monthly Dinner Meeting

CSUN & CLU Alumni Night; Remembrance of Peter Weigand
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA
Title: Geology of Italy: Vesuvius, Etna

November 19 — NCGS Monthly Meeting

Location: Masonic Center, Orinda
Speaker: Dr. John Williams (San Jose State University)
Title: Engineering Geology Provides Clues to Living Safely in the Geologically Dynamic San Francisco Bay Area

November 19* — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento
Speaker: TBA

November 20 — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage
Speaker: Phil Brease (National Park Service)
Title: Mining Claims in Denali—the Evolution from Mineral Extraction to Tourism

November 20 — LABGS Monthly Luncheon Meeting

Location: The Grand at Willow Street Centre, Long Beach
Speaker: Linda Bonnell (AAPG Distinguished Lecturer)
Title: Reservoir Quality Prediction in Deep Water to Tight Gas Sandstones Using a Process/Stochastic Modeling Approach

November 22 — NCGS Field Trip

Location: Mt. Burdell
Leader: Rick Ford (San Francisco State University)
 For information, contact NCGS field trip coordinator Jean Moran at jeanm@stetsonengineers.com.

December 4 — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage
Speaker: Dave Bowen (AAPG Distinguished Lecturer)
Title: Understanding the Impact of Variations in Incised Valley Fill Systems on Reservoir Development: Examples from the Pennsylvanian and Cretaceous Strata of the Rocky Mountain Region

December 9 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield
Speaker: Tony Murer
Title: Technical Competencies for Geoscience Professionals

December 12* — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland
Speaker: TBA

December 16 — CGS Monthly Dinner Meeting

"Significant Other" Night
Location: Veterans of Foreign Wars Hall, Ventura
Speaker: TBA
Title: Planetary Geology: Venus

UPCOMING EVENTS

- | | |
|--------------|----------------------------------|
| January 9* | • NWEA Monthly Luncheon Meeting |
| January 13 | • SJGS Monthly Dinner Meeting |
| January 15 | • AGS Monthly Luncheon Meeting |
| January 20* | • CGS Monthly Dinner Meeting |
| January 21* | • SPA Monthly Luncheon Meeting |
| January 22 | • LABGS Monthly Luncheon Meeting |
| January 28* | • NCGS Monthly Meeting |
| February 10 | • SJGS Monthly Dinner Meeting |
| February 13* | • NWEA Monthly Luncheon Meeting |
| February 17* | • CGS Monthly Dinner Meeting |
| February 18* | • SPA Monthly Luncheon Meeting |
| February 19 | • AGS Monthly Luncheon Meeting |
| February 25* | • NCGS Monthly Meeting |
| February 26 | • LABGS Monthly Luncheon Meeting |

* Tentative

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NEW & REINSTATED MEMBERS — **Jeff D. Kennedy**, West Coast Environmental and Engineering, Camarillo, CA • **John F. Schwiebert**, Stanton, CA

MEMBERS ON THE MOVE — **Allen Britton** of Core Laboratories has transferred from Bakersfield to Houston.

HONORS & AWARDS — **Jack West** received the Certificate of Merit from the AAPG Division of Professional Affairs at the 2003 annual meeting of AAPG in Salt Lake City (see page 9). The tenth Dibblee Medal was awarded to **Trobe Grose** on October 11, 2003, in Santa Barbara (see page 2).

IN MEMORY — **Earl Hampton**, Ventura, CA (October 17, 2003) • **L.F. (Buzz) Ivanhoe**, Ojai, CA (September 2003) • **Joseph A. Johnson**, Bakersfield, CA (October 4, 2003; see page 9) • **Don Padick**, Simi Valley, CA (September 26, 2003) • **Peter Weigand**, Northridge, CA (September 26, 2003)

Snapshots from the SJGS annual golf tournament & BBQ...

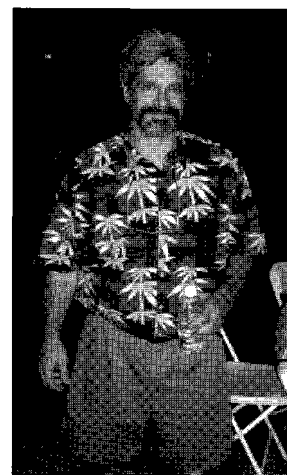
(courtesy of Larry Knauer)

The annual SJGS/SEG/SPWLS Fall BBQ was held on September 5th at the Kern County Oil Museum. More than 150 attendees were treated to some mighty fine BBQ prepared by **Dwight Lee**, **Alan White**, and **Dan Fargo**... bolstered with a little help from their friends and a few margaritas to boot! The new museum was open to all following a donation from the societies, and the raffle parade seemed endless thanks to generous sponsorship from our valued service industry and the arm-twisting of **Linda Specht**. The societies also benefited from record sponsorship of the morning golf tournament, which featured more than 80 geotypes braving the heat and sampling the sediments of the Kern River system with their steel-shafted testing equipment.

— Roy Burlingame



Cynthia Huggins (SJGS President), left, and **Linda Specht** (Core Labs).



John Howe, General Chair of the 2004 Pacific Sections AAPG/SEPM/SEG Convention.



Mark Wilson (Pacific Section AAPG Foundation President), left, presented a \$5000 check to **John Powell** (middle) and **John Minch** (right) for the Dibblee Geological Foundation's mapping project.



September 5
2003



Left to right: **Bob Cohan** (Aspen Energy), **Dwight Lee** (the best barbequer in the SJGS), and **Tom Hopps** (Pacific Section AAPG Past President).

JOSEPH ARCH JOHNSON
1924-2003

Joseph A. Johnson passed away while at home with his family on October 4, 2003. He was born in Lewiston, Idaho, on September 16, 1924. He graduated from Washington State University with a degree in geology. He worked for Shell Oil Company for ten years before pursuing a successful lifelong career as an independent geological consultant in both the oil and gas and mining industries.

Joe was an active member in several community and professional organizations, including the San Joaquin Geological Society and AAPG. He was an avid skier, pilot, golfer, and scuba diver. He enjoyed most outdoor activities, but his favorite pastime was being with his family and friends.

He is survived by his wife of 50 years, Catherine Kitty Johnson, their four children, and eight grandchildren.

—Excerpted from the *Bakersfield Californian*

DPA HONORS JACK WEST

At the May 2003 annual meeting of AAPG in Salt Lake City, the AAPG Division of Professional Affairs (DPA) honored **Jack H. West** with the Certificate of Merit. Jack, a member of AAPG since 1962, was recognized by the DPA for his distinguished and dedicated service on the Board of Certification in 1993-2002. He also was Secretary of DPA in 1995-1997.

Jack was President of the Pacific Section in 1988-1989, and he has served the Section and national AAPG in numerous capacities over the past 40 years. Jack was the Section representative on the AAPG Advisory Council in 1991-1994. During his term on the Council, he sought and received recognition for Section members in both honors and awards and nominations for national office of AAPG. Jack received the Section's highest award, Honorary Life Membership, in 1997.

—Bob Lindblom, Honors & Awards Committee Chair,
Pacific Section AAPG



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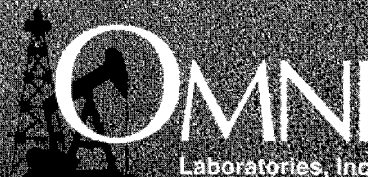
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Alaska Paleontological Database

A recently established paleontological database that contains detailed information on fossils and fossil localities in Alaska can be accessed on the Internet at www.alaskafossil.com. The information is derived from unpublished USGS fossil reports, published literature, and released industry data. The database originally comprised primarily megafossil data, but microfossil data are now also included. This information is part of an effort to archive paleontological data and develop a fossil database and a complete paleontological bibliography for the State of Alaska. It is a pioneer effort for archiving paleontological data at the state level, with Alaska being the first state for which such an effort has been attempted. A more detailed description is provided in the October 2003 issue of *Alaska Geology*, which is accessible at www.alaskageology.org.

PTTC Workshops

For information about the following workshops and forums of the Petroleum Technology Transfer Council West Coast Resource Center, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

November 20: *Technology and Economics of Horizontal and Multilateral Wells* (Valencia)

December 12: *Anniversary Forum: Economic Optimization in Marginal Fields* (Los Angeles)

January 29: *Diatomite Workshop* (Valencia)

Natural Gas Permitting Workshop

The State of California, through the Energy Resources Conservation and Development Commission and the Division of Oil, Gas, and Geothermal Resources will convene a workshop, "Improving the Natural Gas Well Permitting Process In Northern California," on December 4. The workshop, which will address the current permitting process and ways to improve it, will be held at the California Energy Commission, 1516 Ninth Street, Hearing Room A in Sacramento, and will begin at 10:00 a.m. For more information, visit www.energy.ca.gov/naturalgas/notices/2003-10-08_notice.html or contact **Mike Purcell** at 916-654-4048 or mpurcell@energy.state.ca.us. www.alaskageology.org.



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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 2004 issue is December 5, 2003.

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

*November & December 2003 password: prospect
January & February 2004 password: contours*

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