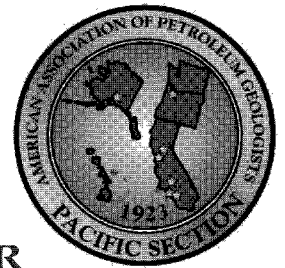
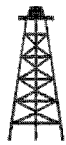


# Pacific Petroleum Geologist

NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

January & February • 2005

## Message from the President: *Happy New Year*

I wish all of our membership a very Happy New Year! With the start of a New Year, we can take time to both reflect on the past and consider our future. As most of you are probably aware, geologist **Tom Dibblee** passed away in November last year at the age of 93. You can read elsewhere in this newsletter a tribute to Tom, who leaves a remarkable legacy in his extensive geological mapping in California. In his 70-year career, Tom mapped one quarter of the State of California. To build this legacy Tom did what many geologists consider the essence of our profession - spending time in the field looking at the rocks and making maps to document his synthesis of observations, interpretations and insights.

There's an old saying "No one reflects back on life wishing they had spent more time at the office". Near the end of his life, Tom Dibblee reportedly reflected back on the mapping work left to be done; apparently wishing he had in fact spent more time in the field. Here is perhaps a little lesson for the rest of us - to make sure we spend our time and energy on meaningful work that we are passionate about.

As noteworthy as Tom's professional life was his 50-year marriage, which ended only with the

For our society the big event in 2005 will be our annual convention, this year held in conjunction with the meeting of the Geological Society of America. This joint meeting will be held in San Jose from April 29-30. While the meeting may not be as "oily" as our past joint meetings with the Society of Petroleum Engineers, it will be chance to spend some time renewing our thinking about the earth sciences. For more information about the 2005 convention, check out the PSAAPG website (<http://www.west.net/~psaapg/>). Here you can find a description of the technical sessions and how to submit an abstract. It will be a great meeting; I look forward to seeing you all there.

Wishing you all the best professionally and personally in the New Year.

*Steve Sanford*  
*President, Pacific Section AAPG*

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**Virginia Cuthbert Church:** March 26, 1915 – January 27, 2005

Virginia passed away quietly at her home in Bakersfield, CA. She was preceded in death by the love of her life, Victor Church, her devoted husband. She is survived by her daughter, Charlo and her husband, David Stuart; and two nieces, Anne Del Calzo and Mary Gardinier and their children and grandchildren.

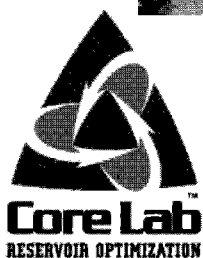
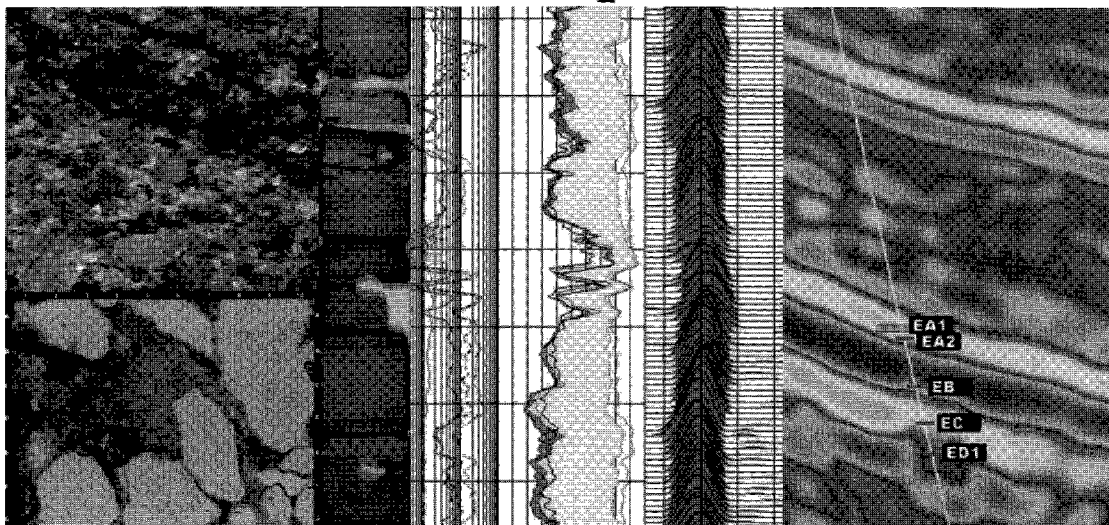
Virginia was born in Hillsboro, North Dakota, to Harry and Harriet Cuthbert. She met Victor at Carleton College in Minnesota. She graduated with a BA in drama. Virginia and Victor were married in 1941 in Hillsboro at her family home.

They moved to Bakersfield in the mid 1940's. Virginia was a founding member of Chapter MB of P.E.O. She was an active participant in the First Congregational Church, AAUW, Community Theater, Community Concerts, and the 10:30-10 Club. And she was proud of her association with Cal State University Bakersfield. Virginia remained active with her love of poetry and reading, current events, traveling, playing bridge, enjoying time with family and friends, both old and new.

Virginia's husband Vic was an Honorary Member of the Pacific Section American Association of Petroleum Geologists and a founder of the California Well Sample Repository on the campus of California State University, Bakersfield. After his death, Virginia continued as an enthusiastic supporter of the Repository, setting up an endowment fund that continues to supply operating funds for the facility.

At Virginia's request there will be no public service. If friends so desire, donations may be made to the H. Victor and Virginia Church Scholarship Fund at California State University in Bakersfield, CA.

# Reservoir Optimization

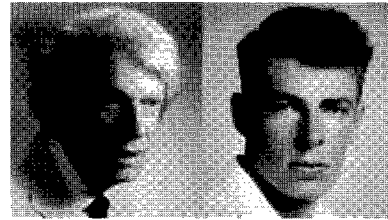


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### Tom Dibblee, San Andreas Fault Pioneer



The San Andreas Fault became famous after the 1906 San Francisco Earthquake, when geologists like A.C. Lawson of the University of California Berkeley and G. K. Gilbert of the U.S. Geological Survey mapped the entire length of the fault from Shelter Cove to the Salton Sea. Yet both Lawson and Gilbert missed the main lesson of the San Francisco Earthquake: that the San Andreas Fault had moved horizontally many miles in its geologic past. They recognized that the 1906 earthquake had displaced the ground horizontally, but Lawson, especially, would continue to insist that the long-term motion on the fault was up and down, not side to side. Scientists such as Levi Noble of the U.S. Geological Survey and Harry Wood and J.P. Buwalda of Caltech, who found evidence for large amounts of strike slip on sections of the San Andreas Fault, were shouted down.

The main problem was that most of California was still unmapped by geologists, so the significance of continental granite west of oceanic sediment, serpentine, and basalt was not fully appreciated. Into the breach stepped a tall, shy Stanford graduate from the Santa Maria area named Tom Dibblee. All Dibblee asked of life was to be able to do geologic field work, beginning with his pioneer family's Spanish land grant, Rancho San Julian, in western Santa Barbara County. Then he was hired by Richfield Oil Company to map the Coast Ranges, especially the Cuyama Valley west of Bakersfield, which his Richfield partner and mentor, Mason Hill, thought might contain undiscovered oil. Dibblee was rarely in the office. Most of the time, he was hiking over the chaparral- and mesquite-covered hills with a loaf of bread and some cheese, mapping the geologic formations he found on the way. Many nights, he would roll out a sleeping bag beside his field vehicle. His field expenses were so small that other oil geologists who preferred motels and restaurants began to complain.

Field mapping is what a geologist will tell you he or she loves to do most. It's the equivalent of combat experience for an infantryman or flight time for a pilot. But few of us spend much time actually doing it, and when Dibblee was able to devote his life to making geologic maps in the field, he became the geologist's folk hero, mapping more California geology than any geologist before or since.

And mapping brought results. Despite one wildcatter's sneer that he could drink every drop of oil found in the Cuyama Valley, Richfield brought in two big oil fields in 1948 at the foot of Caliente Mountain, and the Elkhorn Cafe, a rancher's hangout in New Cuyama, blossomed into an oil-finder's watering hole. One of the reservoir sands was named the Dibblee Sand in honor of its discoverer.

But Dibblee and Hill had more to say, because in Dibblee's mapping in the Carrizo Plain east of the Cuyama Valley, he had observed the mismatch of sedimentary rocks across the San Andreas Fault. He ranged along the entire San Andreas Fault from Point Arena to the Salton Sea, and in his mapping, he and Hill were able to match the rocks on the west side with those on the east. In 1953, they published a paper claiming that the displacement on the fault totaled hundreds of miles, leading to the conclusion that the right-lateral movements in 1857 and 1906 were only the latest in many hundreds of movements over millions of years. For the first time, Levi Noble, who was still advocating large-scale strike slip on the San Andreas Fault north of the San Gabriel Mountains, began to be taken seriously.

The Hill and Dibblee paper was published before plate tectonics came into fashion, and most geologists,

Excerpt from *Living with Earthquakes in California* by Robert S. Yeats (Oregon State University Press, 2001) discussing Tom Dibblee as one of six pioneers in the study of the San Andreas Fault. The other six were Andrew C. Lawson, G.K. Gilbert, Harry F. Reid, Perry Byerly, and Kerry Sieh.



including those in senior positions with my employer, Shell Oil Company, some of whom had studied under Lawson at Berkeley, thought that the idea was far-fetched, even bizarre. But in the next fifteen years, plate tectonics became accepted by geologists and geophysicists, and the San Andreas was revealed as a great transform fault.

A wild, crazy idea of the 1950s became the paradigm of the 1970s and still is today.

Part of the change was a field geologist's maxim: "The best geologist is the one who has seen the most rocks." Dibblee, continuing his marathon mapping project into his 90s as part of his Dibblee Foundation, has no peer. He has seen the most rocks.

## News from our Member Societies

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

P.O. Box 101288  
Anchorage, AK 99510

Contact: Sue Karl  
skar@usgs.gov



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

**Coast Geological Society**

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Moors  
805.650.7000



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



The Coast Geological Society will hold a special meeting in honor of Thomas W. Dibblee, Jr. Tom passed away on November 17, 2004 after more than 70 years of mapping the geology of California. Tom had spent his final weeks working on a talk on tectonics in the LA Basin. He was anxious to present his own interpretations (a.k.a. rebuttal) on the topic in contrast to interpretations recently presented by other workers. As he neared the end, Tom knew he would not be able to give the talk himself so he worked up notes and some audio recordings of his thoughts. Tom Dibblee's final talk will be presented by friends and colleagues at a special memorial meeting of the Coast Geological Society on March 15, 2005 at the VFW Hall, 3801 Market Street, Ventura, California. Social hour starts at 6:00 pm, dinner at 7pm, presentations at 8pm. Please come join us in celebrating Tom's amazing life accomplishments. Additional meeting information and Memorials are on the CGS website.

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### 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 January 27. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at [www.labgs.org](http://www.labgs.org) or by contacting **Ivan Aburto** at [iaburto@breitburn.com](mailto:iaburto@breitburn.com) or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.

### Northern California Geological Society

www.ncgeolsoc.org

9 Bramblewood Court  
Danville, CA 94506-1130

Contact: Mark Detterman  
[mdetterman@blymyer.com](mailto:mdetterman@blymyer.com)



Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meeting is scheduled for January 28. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).

### Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Ron Gullberg  
503-603-6698



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

### Sacramento Petroleum Association

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

Contact: Rick Blake  
925-422-9910



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

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

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## January 2005

### January 14 — NEA Monthly Luncheon

*Location:* Multnomah Athletic Club, Portland  
*Speaker:* Tim Richter, Geotechnical Project Engineer, URS  
*Title:* The 2004 Sumatra Megathrust Earthquake, Could it Happen Here Too?

### January 19 -- SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento  
*Speaker:* S. Julio Friedmann, Lawrence Livermore National Laboratory  
*Title:* Just do it! Large-scale carbon sequestration in California and the U.S. in the context of economic energy production.

### January 27 -- LABGS Monthly Luncheon Meeting

*Location:* The Grand at Willow Street Centre, Long Beach  
*Speaker:* Stephen Jacobs, Consulting Geologist  
*Title:* The Pleistocene of the Palos Verdes Peninsula.

### January 28 -- NCGS Monthly Dinner Meeting

*Location:* Masonic Center, Orinda  
*Speaker:* Dr. Ronald Olowin, Professor of Astronomy and Physics, Saint Mary's College  
*Title:* The Earth: Having a Sense of Place in the Cosmos (based on images taken from the Hubble telescope)  
*For details, see:* <http://www.ncgeolsoc.org/meetings.htm#Meetings>

## Bay, Basins, Basement, and Beyond

### JOINT MEETING

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

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

## February 2005

### February 8 -- SJGS Monthly Dinner Meeting

*Location:* American Legion Hall, Bakersfield  
*Speaker:* James G. Moore formerly of the USGS  
*Title:* Spouse Night: Clarence King and the Lure of Mt. Shasta.

### February 11 — NEA Monthly Luncheon

*Location:* Multnomah Athletic Club, Portland  
*Speaker:* Rodney Aho, Senior Policy Analyst, Bonneville Power Administration.

### February 15 — CGS Monthly Dinner Meeting

*Location:* Veterans of Foreign Wars Hall, Ventura  
*Speaker:* Robert Gray, Santa Barbara City College  
*Title:* A Paleontological Reconnaissance Survey of the Sea Cliffs, Vandenberg A.F.B.

### February 16 -- SPA Monthly Luncheon Meeting

*Location:* Hungry Hunter Restaurant, Sacramento  
*Speaker:* Roland Bain, Consulting Petroleum Geologist & Mike Cummings Statistician/Bureaucrat/Geologist  
*Title:* Review of Drilling Activity and Highlights in the Sacramento Valley for 2004.

### February 17 -- AGS Monthly Luncheon

*Location:* Anchorage Hilton Hotel  
*Speaker:* Paul Whitmore, Alaska Tsunami Warning Center  
*Title:* Tsunamis and the West Coast / Alaska Tsunami Warning Center.

*For details, see:* <http://www.alaskageology.org/>

### February 25 -- NCGS Monthly Dinner Meeting

*Location:* Masonic Center, Orinda  
*Speaker:* Dr. Nahum Schneidermann, ChevronTexaco Overseas Petroleum  
*Title:* Global Gas.  
*For details, see:* <http://www.ncgeolsoc.org/meetings.htm>

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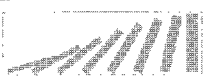
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<b>GUIDEBOOK SERIES</b>			
GB 37	Geology of Peninsular California: 1974	8.00_____	4.00_____
GB 43	San Cayetano Fault Field Trip: 1977	6.00_____	4.00_____
GB 44	Eocene Sedimentation and Paleocurrents, San Nicholas Island, California: 1975, M. R. Cole	2.00_____	1.00_____
GB 46	Geologic Guide to the San Onofre Nuclear Generating Station and Adjacent Regions of Southern California: 1979, D. L. Fife (ed.)	9.00_____	5.00_____
GB 50	Field Guide to the Mesozoic-Cenozoic Convergent Margin of Northern California: 1981, S. A. Graham (ed.)	7.00_____	4.00_____
GB 52	Guide to the Monterey Formation in the California Coastal Areas, Ventura to San Luis Obispo: 1981, C. M. Issacs (ed.)	7.00_____	4.00_____
GB 54	Miocene and Cretaceous Depositional Environments, Northwest Baja California, Mexico: 1984, J. Minch and J. Ashby (eds.)	5.00_____	3.00_____
GB 55	Guidebook for the San Andreas Fault - Cajon Pass to Wrightwood: 1984	8.00_____	4.00_____
GB 58	Geologic Field Guide to the Long Beach Area: 1987, D. Clarke & C. Henderson (eds.)	8.00_____	4.00_____
GB 59	Guidebook for the San Andreas Fault - Cajon Pass to Palmdale: 1987, R. Hester and D. Hallinger (eds.)	8.00_____	4.00_____
GB 64	Santa Barbara and Ventura Basins - Tectonics, Structure and Oilfields along an East-West transect: 1988, A Sylvester & G. Brown (eds.)	8.00_____	4.00_____
GB 65	Structure, Stratigraphy, and Hydrocarbon Occurrences of the San Joaquin Basin, California: 1990, J. G. Kuespert and S. A. Reid (eds.)	18.00_____	16.00_____
GB 66	Geologic Guidebook to Point Reyes: 1990, B. J. Bilodeau and S. O. Davis (eds.)	10.00_____	7.00_____
GB 67	Geology and Tectonics of the Central Coastal Region-San Francisco to Monterey: 1990, R. E. Garrison, et al. (eds.)	14.00_____	12.00_____
GB 68	Geology Tectonics and the Evolution of Hydrothermal Fluids in the Sierra Nevada of California: Guide to Yosemite and the Motherlode Goldbelt: 1990, L. A. Landefeld and G. G. Snow (eds.)	14.00_____	12.00_____
GB 70	Field Guide to the Tectonics of the Boundary Between the California Coast Ranges and the Great Valley of California: 1992, M. C. Erskine, J. Unruh, W. R. Lettis and J. A. Barton (eds.)	14.00_____	12.00_____
GB 71	Field Trip North Coastal California, 1992, G. A. Carver and K. R. Aalto (eds.)	10.00_____	8.00_____
GB 72	Field Guide to the Monterey Formation between Santa Barbara and Gaviota, California, 1994, J. Scott Hornafius (ed.)	10.00_____	8.00_____
GB 73	Field Conference Guidebook and Volume for AAPG National Convention, San Diego, California, 1996, P. Abbott & J. Cooper (eds.), 476p.	10.00_____	8.00_____
GB 75	Geology of the Midway-Sunset Oil Field and Adjacent Temblor Range, 1996, T. Nilsen, A. S. Wylie, Jr., & G. Gregory (eds.), 428 p. <b>(3<sup>rd</sup> REPRINTING)</b> (CD may be purchased with this book for an additional \$39 or by itself for \$100)	200.00_____	200.00_____
GB 76	Late Cenozoic Fluid Seeps and Tectonics along the San Gregorio Fault Zone In the Monterey Bay Region, California: 1999, C. Moore & R. Garrison (eds.)	15.00_____	13.00_____
GB 77	Geology and Tectonics of the San Fernando Valley and East Ventura Basin, 2001, T. Wright & R. Yeats (eds.), 224 p.	20.00_____	18.00_____
GB 78	The Geologic Transition, High Plateau to Great Basin – A Symposium and Field Guide (The Mackin Volume), 2001, M. Erskine et al (eds); Also referred to as Utah Geological Association Publication 30, 430 p. Cost is \$29.99.	Purchase at <a href="http://www.utahgeology.org">www.utahgeology.org</a>	
GB 79	Deep-Water Sandstone, Submarine Canyon to Basin Plain, Western California, 2004, D. Lowe, This is an 11" X 17" spiral-bound books with color figures, 80 p.	54.00_____	44.00_____

# 2005 Pacific Section AAPG Publications



## MISCELLANEOUS PUBLICATIONS SERIES

MP 14	Selected Papers Presented to the San Joaquin Geological Society, Vol. 4: 1972, H. E. Sugden (ed.) (Meganos Gorge, Sherman Island, Sacramento Valley)	2.00	1.00
MP 29	Criteria in Correlation: Relevant Principles of Science: 1979, R. M. Kleinpell	2.00	1.00
MP 30	Selected Papers Presented to the San Joaquin Geological Society, Vol. 5: 1980 (Cal Canal, Pacoima, Kettleman City, Sacramento Valley)	2.00	1.00
MP 34	Forty Years, The Education of a Geologist, Thomas A. Baldwin: 1982	2.00	1.00
MP 35	Selected Papers Presented to the San Joaquin Geological Society, Vol. 6: 1984 (Yowlumne, East Brentwood, Edison, Lost Hills) G. W. Kendall and S. C. Kiser (eds.)	2.00	1.00
MP 36	62 Years: History of the Pacific Section AAPG: 1985, C. F. Green (ed.)	2.00	1.00
MP 37A	Organic Geochemistry in Oil Exploration: 1987, R. Jones & R. Phillip	2.00	1.00
MP 37B	Tectonics, Sedimentation and Evolution of the Eel River and other Coastal Basins of Northern California 1987, H. Schymiczek and R. Suchsland (eds.)	7.00	4.00
MP 38	Selected Papers Presented to the San Joaquin Geological Society, Vol. 7: 1988 (Landslide Oil Field, Upper Miocene Turbidites, Depositional Environments of the Eocene Domengine Fm.	4.00	2.00
MP 41	Structural Geological Sacramento Basin: Symposium Presented at the 1992 Pacific Section AAPG/SEPM/SEG Annual Convention, 1992, V. B. Chevron and W. F. Edmondson (eds.)	12.00	9.00
MP 43	Geology of the Northern San Joaquin Basin Gas Province, 1997, F. B. Cressy & M. L. Simmons (eds.)	12.00	9.00
MP 44	A Systematic Technique for Describing and Quantifying Fractures in Core, 1997, D. Lockman, R. George & M. Hayes	9.00	5.00
MP 45	Contributions to the Geology of the Northern Channel Islands, 1998, P. W. Weigand (ed)	17.00	14.00
MP 46	Structure and Petroleum Geology of the Santa Barbara Channel, California, 1998, T. Hopps, D. Kunitomi & J. Galloway (eds)	18.00	15.00
MP 47	Stratigraphic Architecture of a Sand-Rich, Deep-Sea Depositional System: The Stevens Sandstone, San Joaquin Basin, California, 2003, M. A. Lamb, K. S. Kai, & S. A. Graham (eds.) (This is a 12" X 18" spiral-bound book with color and B/W Illustrations)	41.00	36.00



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# 2005 Pacific Section AAPG Publications



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CS 9	San Joaquin Valley Central from T21S/R12E to T15S/R23E: 1957 (San Andreas Fault to Sierra Nevada Foothills)	3.00	2.00
CS 10N	San Joaquin Valley Central from T4N/R3E to T18S/R20E: 1958 (Rio Vista through Riverdale)	4.00	3.00
CS 10S	San Joaquin Valley Central from T18S/R20E to T10N/R19W: 1958 (Riverdale through Tejon Ranch Area)	3.00	2.00
CS 11	San Joaquin Valley, West Side from T19S/R15E, MD B&M, to T8N/R23W, SB B&M: 1959 (Coalinga to Midway Sunset and across the San Andreas Fault into Southeast Cuyama Valley)	3.00	2.00
CS 17	San Joaquin Valley: T16S/R10E to T8N/R1E: 1969 (Kingsburg to Tejon Hills)	3.00	2.00
CS 8R	Revised Southern San Joaquin Valley from the San Andreas Fault to the Sierra Nevada Foothills: 1986	4.00	3.00
CS 25	San Joaquin Valley from T16S/R21E to T11N/R18W: 1987	4.00	3.00
CS 27	San Joaquin Valley, Cantua Creek to Transverse Ranges: T11N/R21W to T17S/R15E: 1989 (Fresno, King & Kern Counties) D. Sprouse (ed.)	5.00	4.00

## CROSS SECTIONS – Ventura basin

CS 7	Ventura Basin-Central from T5N/R23W to T1SR21W: 1956 (Santa Ynez Fault North of Ojai to Western Santa Monica Mountains)	3.00	2.00
CS 30	Central Ventura Basin from T5N/R19W to T1N/R18W: 1995, T. Hopps, H. Stark, R. Hindle, J. Thompson & G. Brown (eds.)	5.00	4.00

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CS 14	L. A. Basin from T15S/R15W to T8S/R10W: 1962 (Beverly Hills to Newport)	3.00	2.00
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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 2005 issue is February 25, 2005.**

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

*November & December 2004 password: diorite*  
*January & February 2005 password: labradorite*

**CONTRIBUTORS TO THIS ISSUE:**

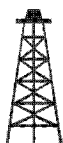
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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

July & August • 2005

## Message from the President:

I am writing this in the week following the joint meeting of the Pacific Section AAPG with the Cordilleran Section of the Geological Society of America. The meeting, held in San Jose, was a technical and operational success, with just over 1,000 attendees. A great convention like the San Jose meeting is always encouraging as a sign of two things: the vitality of our profession and the power of volunteers.

The vitality of our profession was attested to by the remarkable range of high-quality technical sessions. Presenters at these sessions included students, professors and industry professionals. With six simultaneous oral sessions and concurrent poster sessions, choosing which talks to hear and posters to see was not always easy. Highlights for me included sessions on: new technology applications to petroleum reservoirs, 3D visualization, geologic education and yes, igneous petrology of the Sierra Nevada Batholith. Noteworthy also was the first public display of an assessment by the USGS of the petroleum potential of the Yukon Flats basin in Alaska.

The power of volunteer effort was demonstrated in how the San Jose convention was planned and executed. For this convention, a committee of volunteers put together a meeting which I doubt a paid staff could duplicate. My hat is off to co-chairs **Mel Erskine** for the PSAAPG and **Jonathan Miller** for the GSA, who did an outstanding job assembling a strong and diverse technical program and arranging the logistical details to make the event run smoothly. Ross Smith as facilities chair was also a key contributor to the outstanding planning and execution of the meeting.

At the convention on Friday, April 29, **George Taylor**, state climatologist for Oregon gave a thought-provoking talk to the Pacific Section Division of Professional Affairs on temperature changes and temperature cycles since 1900. Mr. Taylor emphasized the importance of honest observations by quoting Solomon's words from Ecclesiastes: "this I have seen". In his talk, Mr. Taylor showed that while a selected set of temperature data suggests increasing temperature over time, a larger data set shows that temperatures in the US have been more cyclical, without an increasing trend. The audience was also shown that heating of the southern polar region and of the upper atmosphere predicted by climate models is not observed in the data.

At our awards lunch Saturday, April 30, the Pacific Section recognized awardees for 2005, heard from national AAPG President **Pat Gratton** and enjoyed a talk by **Stephen Testa** on the early history of the California oil industry. A full list of honorees and details of their awards are included in this newsletter. Stephen Testa's talk provided a fascinating historical perspective of the history of oil exploration and production in California between 1865 and 1903. A source of amusement for the audience was the quote from **Josiah D. Whitney**, head of the first geological survey of California, for whom Mt. Whitney is named. In 1865 Whitney declared that "there is absolutely no evidence of petroleum in Southern California." While amusing to modern ears, the quote also serves as a warning to all of us against categorical statements in any discussion of the natural sciences.

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## Message from the President (cont.):

The keynote address at the convention was a talk by **Dr. Mary Lou Zoback** of the USGS on the 1906 San Francisco earthquake. Her talk provided some fascinating historical perspective on the earthquake and a view of the current state of earthquake science. Dr. Zoback described the 1908 Lawson report, which was commissioned after the earthquake by the governor of California. This report provides most of what we know today about the great 1906 earthquake and is a benchmark for a thorough and accurate documentation of a significant geological event. The documentation of shaking intensity in the report was so accurate and complete that it has provided the basis for shake map of the 1906 earthquake published by the USGS this year. The Lawson report also recognized that major earthquakes could follow long periods of seismic inactivity, a principle which Dr. Zoback suggested may be a "lesson forgotten" from the 1906 event.

Along with the historical perspective, Dr. Zoback provided a view of current and future scientific efforts to understand earthquakes and seismic risk better. This includes efforts to study shaking intensity based on the propagation of fault rupture and the SAFOD program which with plans to drill through the San Andreas Fault in the Parkfield area.

From the great technical sessions, to the outstanding organization of the meeting to the special speakers, the 2005 joint meeting of the Pacific Section AAPG and Cordilleran Section GSA was a great success.

If you missed the 2005 meeting, remember that from May 7-10, 2006 we will conduct our annual Pacific Section Convention jointly with both the GSA and SPE in Anchorage Alaska. This meeting promises to offer a wide breadth of technical program, so mark your calendars today!

This is my final letter as President of the Pacific Section AAPG. **Joan Barminski**, current President-Elect will succeed me and become President of the Pacific Section for 2005-2006. Serving with Joan will be her executive committee of newly elected officers, including **Mike Wracher** as President-Elect, **Mike Clark** as Vice President, **Melissa Kolb** as Treasurer and **Janet McAlee** as Secretary. With my assumption of the office of Past President, I would like to thank the 2004-2005 officers for their service to the Pacific Section. These past officers include **Mike Wracher** who served as vice-president, **Karen Blake** as Secretary and **Nancy Wildman** as Treasurer. I was glad to have served as President of the Pacific Section and look forward with all of you to another great year for our organization.

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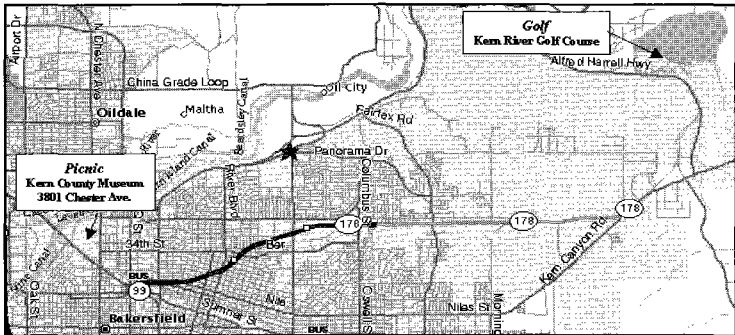
**San Joaquin Geological Society**  
Society of Exploration Geophysicists and  
San Joaquin Well Logging Society

## Annual Fall Barbecue and Golf Scramble

Friday September 9, 2005

Family BBQ and Raffle at the Kern County Museum  
Onsite BBQ by Dwight Lee and Alan White Featuring Tri Tip and all the Fixin's

Happy Hour at 5:00 PM                      Dinner at 6:00 PM  
RSVP: \$15.00 At the Gate: \$18.00 Students: \$7.50 Children: \$5.00  
Please RSVP by Tuesday, September 6, 4:00 PM - Save \$ - Help the Planners  
BBQ RSVP and Questions: Johnathan Lange, jlange@chevron.com, (661) 654-7644



-----Cut on line and Return-----

**Golf Tournament at Kern River Golf Course (Next to Lake Ming)**

<p><b>Golf Tournament</b> Kern River Golf Course 8:00 AM - First Tee Time \$50.00/ Person Includes: Green Fee, Cart, Lunch, Prizes</p> <p><b>Reservation Deadline</b> September 3, 2005</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Registered Players</th> <th style="text-align: left;">Golf \$</th> <th style="text-align: left;">BBQ \$</th> <th style="text-align: left;">Circle Affiliation</th> </tr> </thead> <tbody> <tr> <td>Golfer 1 _____</td> <td>_____</td> <td>_____</td> <td>SJGS / SEG / SJWLS</td> </tr> <tr> <td>Golfer 2 _____</td> <td>_____</td> <td>_____</td> <td>SJGS / SEG / SJWLS</td> </tr> <tr> <td>Golfer 3 _____</td> <td>_____</td> <td>_____</td> <td>SJGS / SEG / SJWLS</td> </tr> <tr> <td>Golfer 4 _____</td> <td>_____</td> <td>_____</td> <td>SJGS / SEG / SJWLS</td> </tr> <tr> <td>Total \$ _____</td> <td>_____</td> <td>_____</td> <td></td> </tr> <tr> <td colspan="4">Preferred Starting Time: _____</td> </tr> <tr> <td colspan="2">Contact email: _____</td> <td colspan="2">Contact Phone: _____</td> </tr> </tbody> </table>	Registered Players	Golf \$	BBQ \$	Circle Affiliation	Golfer 1 _____	_____	_____	SJGS / SEG / SJWLS	Golfer 2 _____	_____	_____	SJGS / SEG / SJWLS	Golfer 3 _____	_____	_____	SJGS / SEG / SJWLS	Golfer 4 _____	_____	_____	SJGS / SEG / SJWLS	Total \$ _____	_____	_____		Preferred Starting Time: _____				Contact email: _____		Contact Phone: _____	
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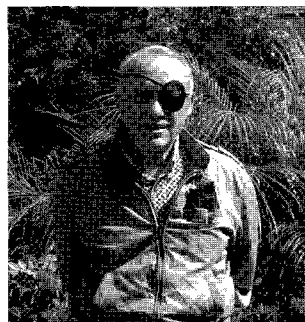
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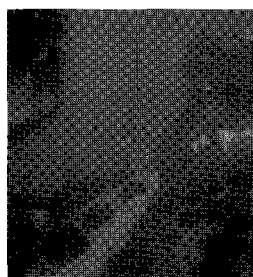
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### Acclaim for James Vernon's DEEP SIX MY HEART

I thoroughly enjoyed reading Deep Six My Heart. It's a first class documentary that brings out the difficulty of World War II veterans finding a career in geology and oceanography. The author found a unique spot where these could be of use to the Industrial world. I feel strongly that the book will be widely well received.

*John C. Crowell Ph.D., Professor of Geology Emeritus, University of California, Santa Barbara*

His book chronicles a career in wet suits and mini-submarines in the high stakes hunt for offshore oil...reads like a movie but with the electricity only a true story can provide... a story as American as only the 20th Century allowed.

*James C. Ingle Ph.D., Professor of Geology, Stanford University, Stanford California. Author of more than 15 publications.*

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*Donn S. Gorsline Ph.D., Professor of Geology Emeritus, University of Southern California, Los Angeles. Author of more than 15 publications.*



## News from our Member Societies

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### **Alaska Geological Society**

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

P.O. Box 101288  
Anchorage, AK 99510

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



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

### **Coast Geological Society**

P.O. Box 3055  
Ventura, CA 93006

Contact: Scott Moors  
805.650.7000



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

### **Los Angeles Basin Geological Society**

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

5640 South Fairfax Avenue  
Los Angeles, CA 90056

Contact: Dalton Lockman  
323.298.2242



Luncheon meetings are held monthly September through November and January through June, usually on the third or fourth Thursday of the month, in the Monarch Room at The Grande at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Lunch is served at 11:30 a.m., and the talk starts at 12:15 p.m. The cost is \$17 (with reservations), \$20 (without reservations), or \$5 (students). Reservations can be made online at [www.labgs.org](http://www.labgs.org) or by contacting **Ivan Aburto** at [iaburto@breitburn.com](mailto:iaburto@breitburn.com) or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.

### **Northern California Geological Society**

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

9 Bramblewood Court  
Danville, CA 94506-1130

Contact: Mark Detterman  
[mdetterman@blymyer.com](mailto:mdetterman@blymyer.com)



Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).

## News from our Member Societies

**San Joaquin Geological Society**  
www.sjgs.com

P.O. Box 1056  
Bakersfield, CA 93302

Contact: Rob Negrini  
rnegrini@cs.csusbak.edu



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 cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Jonathan Lange** at 661-665-5099 or [jlange@chevron.com](mailto:jlange@chevron.com).



The First Annual SPE/SJGS/SPWLA/SEG Golf Extravaganza will be held at the Sundale Country Club on Friday April 8. See the ad on page 12.

**Northwest Energy Association**  
www.nwenergyassociation.org

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

Contact: James Jackson  
503-771-3887



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

**Sacramento Petroleum Association**

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

Contact: Rick Blake  
925-422-9910



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

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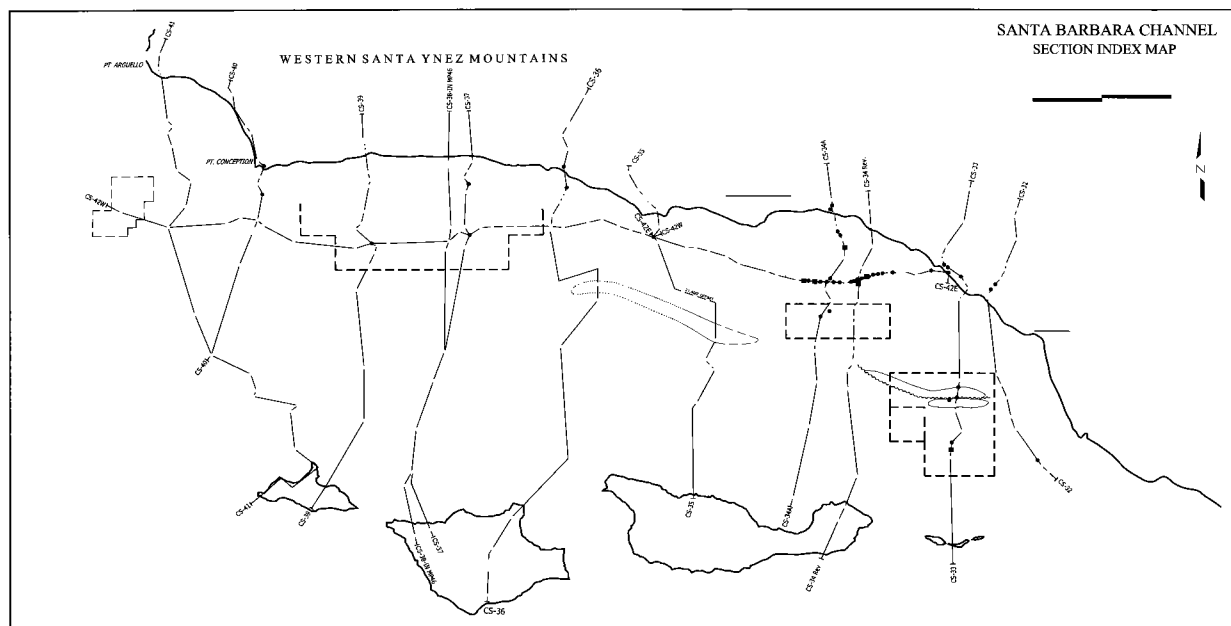


Almost exactly seven years after he proposed the project, Tom Redin has put his blessing on the final drafted cross-section of the twelve sections that make up the Santa Barbara Channel Series. The first section of the Channel Series was completed in 1998 and was included in MP 46, The Geology and Petroleum Potential of Santa Barbara Channel, California. The entire series includes eleven north-south sections and two east-west sections that join in South Elwood Field and extend from Point Arguello east to Montalvo. Tom Redin presented five sections in a poster session at the 1999 Pacific Section convention in Long Beach.

In addition to Tom Redin, who has taken most of the sections from start to finish, the committee also included Marc Kamerling, John Forman (deceased), Jim Galloway and Tom Hopps, chairman. Alex Anderson and Nick Saavedra provided the drafting services. Some financial support has been provided by industry but the Pacific Section is far short of its total expenses and needs additional support. Please contribute to this project, noting Correlation Sections on your check made payable to the PSAAPG Robert N. Hacker Fund.

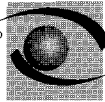
The Pacific Section of the AAPG has completed 43 correlation sections in California basins since the first section was published 1952. All have received widespread use as a valued reference, sometimes providing the only starting point available to a geologist new to a basin. Equally important, they provide a means of preserving and making available to the public the knowledge and concepts of geologists who have worked the basins for years, most of whom have long since retired.

Cross Sections are for sale for \$12 per section or \$120 for the set of 12 sections plus a copy of MP 46, which includes 1 additional section, plus a large-scale statewide correlation section index map soon to be published. To order correlation sections, please contact Larry Knauer or Pacific Section AAPG, PO Box 1072, Bakersfield, California 93302.



Santa Barbara Channel series of Pacific Section AAPG Correlation (and structure) Sections.

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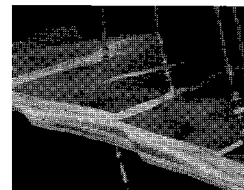
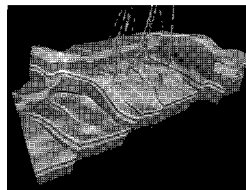
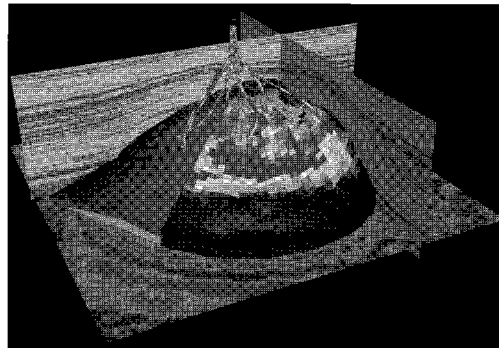
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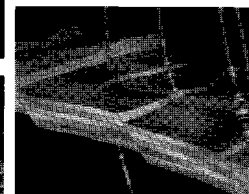


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## Pacific Section AAPG Teacher of the Year Award: Jim Mears

The Pacific Section AAPG Teacher of the Year Committee has selected Jim Mears as the winner of the 2005 Pacific Section AAPG Teacher of the Year Award. This award is given annually in recognition of Excellence in the Teaching of Natural Resources in the Earth Sciences.

Jim Mears, winner of the 2005 Pacific Section AAPG Teacher of The Year Award is with the San Diego County Office of Education, Community Home Education Program. Jim is also winner of the Los Angeles Basin Geological Society 2005 award.

Jim received his AA in 1961 and his BA in 1964. He holds the Industrial Arts Life Credential for teaching, the General Secondary Life Credential, and the General Elementary Life Credential for teaching, and has been teaching for 42 years. He has presented papers dealing with many facets of science at state conferences, natural history museums, and other settings.

Jim's office and classrooms are in the San Marcos, California, Home Education Program facilities. He has turned his area into the "Mears Museum," with specimens of rocks, minerals, and fossils, living plants and animals, and other hands-on natural history items. He holds forth over his Microlab, attended by his students in the natural history fields, especially Geology and Paleontology. As part of Jim's instructional program, he has taken students on field trips to the Salton Sea, the Anza Borrego Desert, the Kern River and the fossil deposits in San Pedro. On these and other field trips, his students have hunted gold, topaz, garnet, salt, fossil shells, whalebones, shark teeth, and other geological specimens. The students also study microscopic forms of life, including foraminifera, radiolaria, sponges, bryozoa, echinoids, crustaceans, diatoms, and mollusks, using sophisticated binocular microscopes. The pupils are also involved with projects, turning out term papers on what they find.

Jim's education philosophy includes engaging students to share what they find, encouraging them to work together and allowing them to teach each other. Jim accomplishes this engagement by providing students with the rich learning experiences of fieldtrips and laboratory exercises dealing with San Diego area geology. Jim's goals also include preparing students for their working life by getting them to recognize how their class lessons could grow into a career. While maintaining a steadfast commitment to an exceptional educational experience for his students, Jim is guided by the philosophy of "are we having fun yet?" Indeed, Jim's classes are so engaging that former students return to learn more and help in his lab. Jim has earned high praise from his administrator, parents and his students. Jim's passion about teaching may be best summed up by a comment from a parent that "Mr. Mears is teaching them to do more than learn science, he is teaching them to love it!"

Because of his passion and excellence in teaching, Jim Mears is highly deserving of the PSAAPG 2005 Teacher of The Year award.

- Ed Marks & Karla Tucker

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## Pacific Sections AAPG & SEPM Martin Van Couvering Award

The Martin Van Couvering Award is presented by the Pacific Section AAPG Foundation on behalf of the Pacific Section AAPG and the Pacific Section SEPM (Society for Sedimentary Geology). The award was created to encourage university student attendance and participation at Pacific Section meetings and field trips. At the request of the Pacific Section, deserving students are selected by faculty at universities local to the annual convention. Due to a special donation by ChevronTexaco, the number of awardees for this year was expanded.

This year's Martin Van Couvering Award recipients are:

Peter Lippert	University of California, Santa Cruz
Erica Schneider	University of California, Santa Cruz
Brian Romans	Stanford University
Amy Weislogel	Stanford University
Jennifer Mendonca	San Jose State University
Ante Mlinarevic	San Jose State University
Mindy Kimball	Cal State East Bay
Jason Altekruise	University of California, Davis
Sean Mulcahy	University of California, Davis


## AAPG A. I. Levorsen Memorial Award: Michael S. Clark

The A.I. Levorsen Memorial Award is given by AAPG in recognition of the best paper presented at each AAPG section meeting, with particular emphasis on creative thinking toward new ideas in exploration. The award is made at the section meeting for papers presented at the previous years/ meeting.

The winner of the 2004 award is Michael S. Clark, Senior Geologist at Chevron Texaco in Bakersfield, California. Dr. Clark presented the paper entitled Reservoir Characterization of a Diatomite-Sandstone Reservoir Using Integrated Core and Log Analysis, Lost Hills Field, California. The paper was co-authored by Dale Julander and Tom Zalan.

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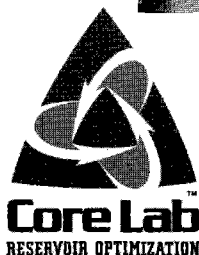
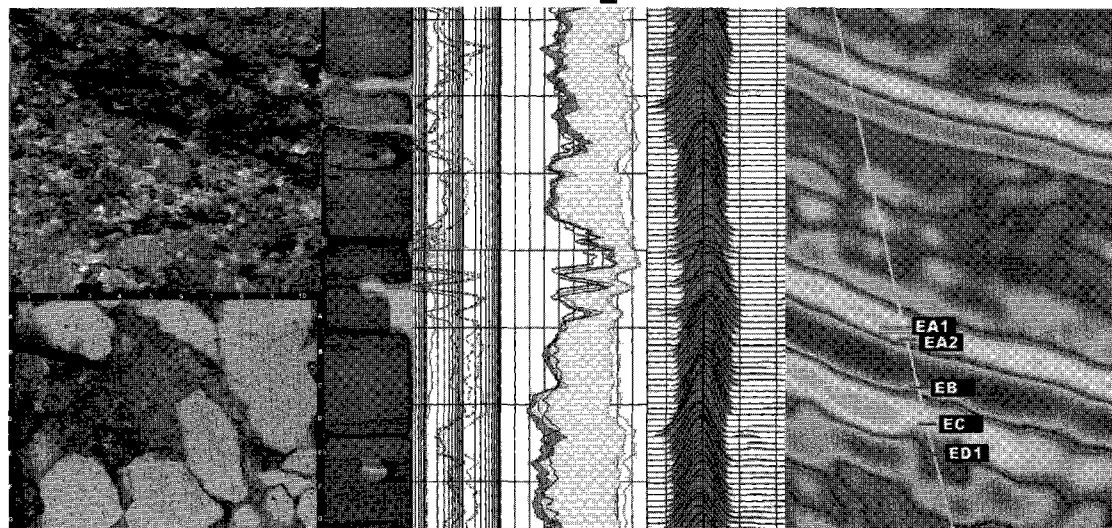
### Pacific Section AAPG H. Victor Church Memorial Award: Jon R. Schwalbach

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

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

The winner for the best poster at the 2004 Pacific Section AAPG convention in Bakersfield is Jon R. Schwalbach. Dr. Schwalbach presented the poster entitled Variation and Complexity: Monterey Formation Reservoirs of California. The poster was co-authored by Stuart Gordon, Charles O'Brien, Bill Benmore, and Cynthia Huggins.

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### **Pacific Section AAPG Honorary Life Membership Award: Tor H. Nilsen**

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

It is entirely fitting and proper that the Pacific Section AAPG should elect Dr. Tor H. Nilsen to Honorary Life Membership, because of his manifold contributions to the Society, to the petroleum industry, and to geologic education. Tor is one of the foremost sedimentologists and stratigraphers in the world today. He is a recognized expert in studies of sedimentary rocks in diverse environments in outcrops, in cores, and in reflection seismic data. In my association with him, I've marveled at how Tor is able to integrate so many things across so many fields, across so much geologic time, and across so much of the world, to obtain a deep understanding of the total geologic framework and history, especially in the analysis of sedimentary basins.

One of the best and most comprehensive examples of his contributions is the one he and his Santa Fe Energy colleagues did of California's vast Midway-Sunset oil field, third largest in the U.S. Tor was responsible for the subaerial mapping and interpretation of the sedimentary rocks and facies in the Temblor Range. He and his colleagues tied that work into corresponding subsurface data from 5,000 wells to produce a detailed, innovative, and unique, 4-dimensional interpretation of the sedimentologic and depositional framework of the oilfield. That work was presented as a 428-page guidebook with abundant maps, stratigraphic columns, and seismic data for a 3-day AAPG/SEPM field trip in May 1996, which focused on the outcrop data that Tor had mapped so thoroughly and carefully. I tell anyone who will listen that it was the best and most informative field trip I've ever been on in my 45-year career.

Tor began his career as a research geologist at Shell Development's splinter office in Ventura, California. After only a few months, however, he had to fulfill two years of military service and did so doing gravity work for the U.S. Army Corps of Engineers. Upon being mustered out, Tor was a research geologist with the U.S. Geological Survey, focusing on landslides in the San Francisco Bay region but also on the paleogeographic framework of Paleogene rocks in California. That work led to his long association with Tom Dibblee and to his papers about how those Paleogene rocks were disrupted by the San Andreas fault. Tor also participated in several offshore USGS research cruises in the eastern Pacific and Arctic Oceans, and was a sedimentologist on DSDP Leg 38 to the Norwegian-Greenland Sea. Tor then moved into the petroleum field when he became vice-president of RPI Pacific Consultants in 1985. In 1987, he organized and became President and CEO of Applied Earth Technology Inc., a Redwood City consulting firm. In 1991, he became an independent consulting geologist with clients around the world.

Tor is an effective teacher, both in Cal State University classrooms and in the field. He has led AAPG field seminars for nearly 20 years, and he regularly presents lectures and consults for many petroleum companies worldwide, especially in Norway, Indonesia, and the Middle East. Tor has published extensively in professional journals, and he frequently attends and presents his information at societal meetings, especially and including AAPG, Geological Society of America, SEPM, and PSAAPG. I would be surprised to learn that he has ever missed a PSAAPG meeting in his 40-year career.

I am pleased that the Pacific Section, AAPG, has elected Tor to Honorary Life Membership. The honor is well deserved.

- Arthur Gibbs Sylvester





### **Pacific Section AAPG Distinguished Educator Award: David W. Andersen**

The Distinguished Educator Award is given by the Pacific Section AAPG in recognition of distinguished and outstanding contribution to geological education and counseling of students. This year, we are proud to honor David W. Andersen, Professor of Geology at San Jose State University.

Dave graduated from Stanford University in 1969 with a B.S. degree in geology and the University of Utah in 1973 with a Ph.D. in geology. Since 1973, he has been a member of the Geology Department at San Jose State University (SJSU).

As an educator, Dave has made extraordinary contributions. At SJSU, Dave has interfaced with thousands of students in classes ranging from beginning classes in geology to specialized courses for graduate students in geology. Dave is very aware of students' needs and makes a point of being on campus Monday through Friday, always with an open door. All of us who have observed Dave's interaction with students, especially with those who come to his office, are impressed by his manner and concern for the students.

In addition to teaching on the San Jose campus, Dave has taught SJSU's 6-week summer geology field course five times, acting as teacher, confidant, and friend to the students. Because his interest in education goes well beyond preparation of students for positions in the geological sciences, he served for four years on the Board of General Studies at SJSU, attempting to demonstrate to the University that some knowledge of science is of value for all students.

Of lasting validation to his efforts, thirty theses on geology have been completed by graduate students in geology under his direction. A number of the early ones dealt with Laramide or Paleocene fluvial and lacustrine depositional systems in southwestern Wyoming. More recently his interest has shifted to the Santa Clara Valley. During this work, he involved both undergraduate and graduate students. In addition, he has supervised dozens of one-semester research projects in an undergraduate sedimentology class, four of which have been published. Since September 2000, Dave and his students have been working with the U. S. Geological Survey and Santa Clara County Water District on cores drilled to ascertain the stratigraphy of the Santa Clara Valley fill.

Dave has published 22 papers, three of which were published in Pacific Section SEPM volumes. He also has co-edited 2 volumes for that organization. His work for the Pacific Section AAPG-SEPM includes participation in four conventions between 1990 and 2005, including Technical Program Chair, Field Trip Coordinator, and Finance Chair (twice).

All of the above demonstrates that in all areas of education and research, David W. Andersen is supremely deserving of the AAPG Pacific Section's Distinguished Educator Award.

- Cal Stevens

### **Pacific Section AAPG Corporate Award: Halliburton**

The Corporate Award is presented to an organization whose contributions to the Pacific Section AAPG are above and beyond the norm. Halliburton's singular contribution to the Section was their outstanding support of our 2004 annual meeting in Bakersfield.

## Members in the News:



### Ellen Aronson Appointed Regional Manager of MMS Pacific Region; Joan Barminski selected Deputy Manager

CAMARILLO- Ellen Aronson is the new regional manager for the Minerals Management Service Pacific Region, which is charged with managing offshore energy and mineral resources on federal lands along California, Oregon and Washington. Joan Barminski has been selected as deputy manager.

Tom Readinger, MMS associate director of Offshore Minerals Management said, "I'm confident that the professional expertise and leadership skills Ellen and Joan bring to these jobs will meet the complex challenges attendant to the oversight of safe and environmentally sound operations for the existing leases offshore California."

Ellen Aronson has 27 years experience working in the Interior Department's Outer Continental Shelf oil and gas program, having held both staff and management positions in the Pacific Region and in Washington, D.C. Most recently, she held the position of MMS Pacific Region Deputy Manager. Much of her work has been in the areas of developing regulatory policy and evaluating opportunities to affect a balance between resource development, public interest, and environmental protection. She began her federal career as a planner for the U.S. Nuclear Regulatory Commission in 1976.

Ellen holds a Bachelor of Arts in Liberal Arts from Sara Lawrence College and a Master's of Urban and Regional Planning from the University of Southern California.

Joan Barminski is a geologist with 27 years of experience in petroleum geology and offshore oil and gas regulation. She previously served as Chief of the MMS Pacific Region's Office of Reservoir Evaluation and Production. In this position, she was responsible for ensuring compliance with established policies for activities on OCS leases and units and ensuring that the public receives fair returns on energy development from offshore federal lands. Her federal service includes positions with the U.S. Geological Survey Conservation Division in Washington, D.C., the MMS North Atlantic Office formerly in Hyannis, Massachusetts, the Santa Maria District Office in Santa Maria, California, and the MMS Pacific Region Office of Field Operations in Camarillo, California.

Joan graduated with a Bachelor of Arts in Geology from Smith College and went on to graduate work in coastal processes in the Marine Sciences and Geology Departments at the University of North Carolina at Chapel Hill. She is a Registered Geologist in the State of California. Joan is active in many professional organizations, including the Coast Geological Society and the Pacific Section American Association of Petroleum Geologists (AAPG). She is currently the president-elect for the Pacific Section AAPG.

The MMS Pacific Region office, located in Camarillo, Calif., employs approximately 50 people to carry out day-to-day administration of the MMS program for federal offshore lands, commonly referred to as the Outer Continental Shelf. The Region conducts environmental studies on potential and real effects of offshore mineral development and regulates existing oil and gas operations along southern California to ensure that energy resources are extracted in an environmentally-safe manner. The Region has been an important contributor to the Nation's hydrocarbon inventory, with over 1.06 billion barrels of oil and 1.33 trillion cubic feet of gas produced over the past 36 years. It is estimated that about 362 million barrels of oil and over 1.09 trillion more cubic feet of natural gas remain to be recovered from the 43 producing leases offshore southern California.

MMS, part of the U.S. Department of the Interior, oversees 1.76 billion acres of the Outer Continental Shelf, managing offshore energy and minerals while protecting the human, marine, and coastal environments through advanced science and technology research. The OCS provides 30 percent of oil and 23 percent of natural gas produced domestically, and sand used for coastal restoration. MMS's collects, accounts for, and disburses mineral revenues from Federal and American Indian lands, with Fiscal Year 2004 disbursements of approximately \$8 billion and more than \$143 billion since 1982. The Land and Water Conservation Fund, which pays for cooperative conservation, grants to states, and Federal land acquisition, gets nearly \$1 billion a year.

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### **Pacific Section AAPG Distinguished Service Award: Richard G. Blake**

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

Richard G. 'Rick' Blake was born and raised in Southern California. His interest in geology had an early beginning since his father, Ned, was an avid rock hound and mineral collector. Following graduation from Anaheim High School in 1970, he enrolled at Cypress Community College and took a geology course from Keith Green, a former Shell Oil Company geologist. Through Keith's encouragement, Rick's introduction to AAPG was in attending the Pacific Section annual convention held in Bakersfield in 1972. After study at Cal State Fullerton, Rick transferred to Cal State Los Angeles where he earned both bachelors and masters degrees in geology.

While studying geology as an undergraduate, Rick met George LaPerle, the President of Western Continental Operating Company in Bakersfield, who became a life-long friend and mentor. Following graduation, George introduced him to the management of San Francisco-based Natural Gas Corporation (NGC) of California where in 1980, Rick began his professional career in oil and gas as an exploration geologist. After seven years with NGC, Rick joined Fleet Oil Company in Irvine as Vice President and Exploration Manager and continued to explore for gas in the Sacramento Valley.

In 1990, Rick made a major move, and accepted a position with the Lawrence Livermore National Laboratory, in Livermore, CA. Over the past 12 years, he has been the lead geologist for the Livermore Superfund ground water clean up project and was recently promoted to Group Leader for the Water Guidance and Monitoring Group at the Laboratory. Apart from this work, Rick is active in Livermore through involvement with science education in the classroom and leading geologic and environmental tours and field trips for community leaders and various school groups. Rick is also a member of the San Francisco chapter of the Explorer's Club International, dedicated to scientific exploration and field research.

Rick Blake has been a member of AAPG since 1977 and been active in the Pacific Section AAPG for the past 28 years. He has presented numerous papers and posters at Section meetings and has also served as a session chair. He was honored by receiving the AAPG A.I. Levorsen Award at the 1984 Section convention for co-authoring the best paper entitled "Sacramento Valley's Meganos Submarine Canyon, Oil and Gas Accumulations in the Brentwood Area." In 2002, he was given the Section's H. Victor Church Memorial Award for best poster presentation on "Ground Water Characterization Work at Lawrence Livermore Laboratory." During his career, Rick has held office in several organizations including the Northern California Geologic Society (vice president and field trip chairman) and the Sacramento Petroleum Association where he is now serving as President for the fourth year. He is currently the Chair of the Section's Community and Government Affairs Committee. In 2004, Rick was President of the California Council of Geoscience Organizations (CCGO) and he continues to represent geologists at hearings with state legislators and officials in Sacramento especially relevant to the State Board of Geology and Geophysics.

It is a pleasure and privilege to write this citation for Richard G. 'Rick' Blake. Through his dedication and exemplary service to the Pacific Section AAPG and the Sacramento Petroleum Association, and with a propitious commitment to professional geologic activities in the State of California, Rick is most deserving of the Section's Distinguished Service Award.

- Bob Lindblom



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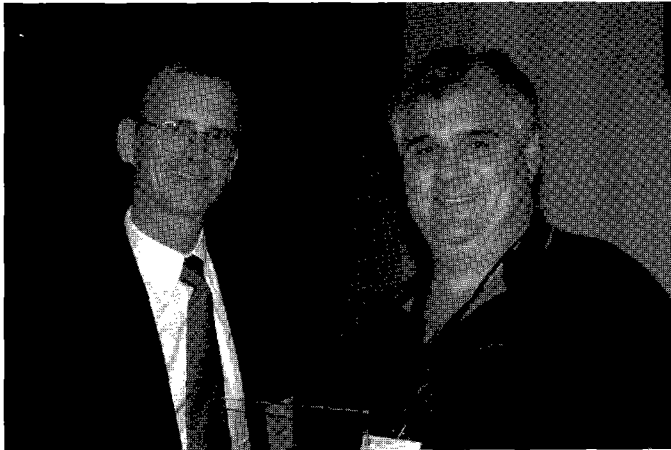
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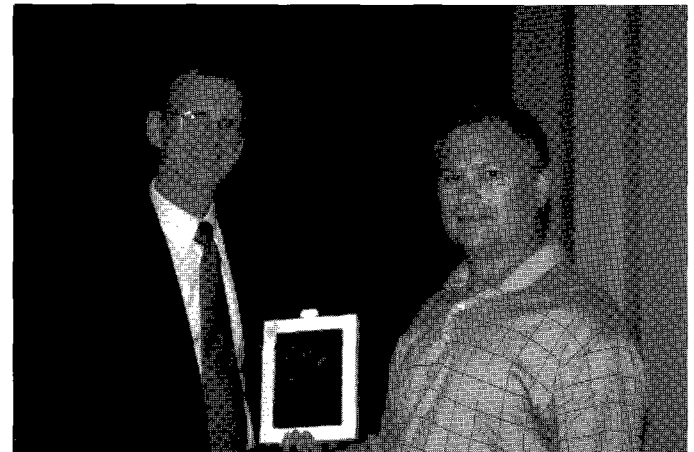
L-R: Steve Sanford (PSAAPG President) with Mike Noel (Halliburton) receiving the Corporate Award, on behalf of Halliburton



L-R: Steve Sanford (PSAAPG President) with Teacher of the Year Award recipient Jim Mears (San Diego).



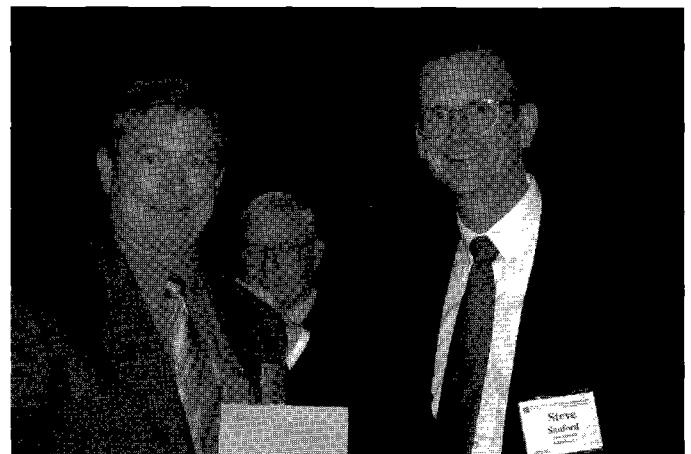
L-R: Steve Sanford (PSAAPG President) with A. I. Levorsen Memorial Award recipient Michael Clark (consultant).



L-R: Steve Sanford (Chevron) with H. Victor Church Memorial Award recipient Jon Schwalbach (Oxy).



L-R: Steve Sanford (PSAAPG President) with Distinguished Educator Award recipient Dave Andersen (San Jose State University).



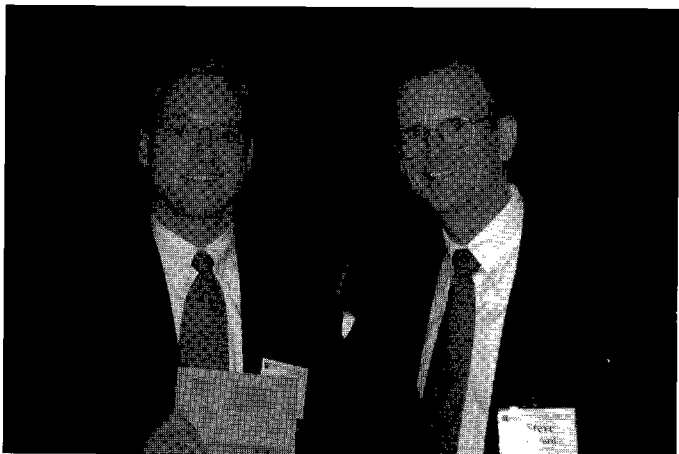
L-R: Steve Sanford (PSAAPG President) with Distinguished Service Award recipient Tony Reid (Oxy).



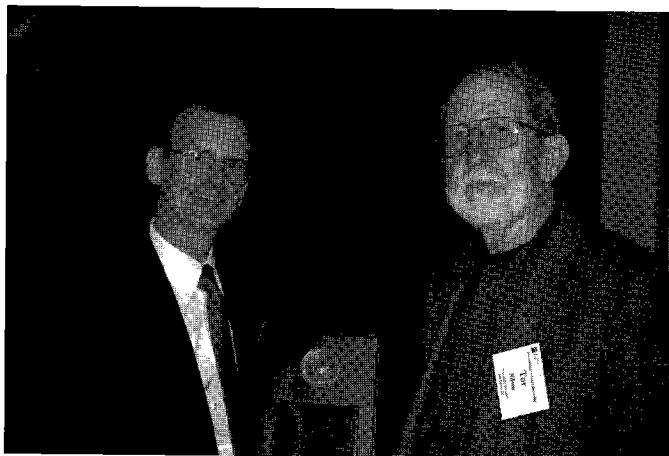
L-R: Steven Bachman and National Teacher of the Year Award recipient Marilyn Bachman.



L-R: Van Couvering Award Winners with Mark Wilson (consultant).



L-R: Distinguished Service Award recipient Rick Blake (Lawrence Livermore National Lab) and Steve Sanford (PSAAPG President).



L-R: Steve Sanford (PSAAPG President) and Honorary Life Membership Award recipient Tor Nilsen (consultant).

## Member News: 2005 Awards



### **Pacific Section AAPG Distinguished Service Award: Steven Anthony (Tony) Reid**

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

Stephen Anthony (Tony) Reid has worked for more than 20 years as a petroleum geologist in California. Although he has moved on to a larger stage as an international explorationist for Occidental Petroleum in Houston, his contributions to the petroleum geology of California continue to provide understanding and inspiration. He is most deserving of this recognition as a recipient of the Pacific Section AAPG's second highest award, the Distinguished Service Award.

Few are more native Californian than Tony. He was born and raised in the San Fernando Valley and attended California State University, Northridge. Tony received his Bachelors degree in Geology from Northridge in 1976 and earned his Master's degree in 1979. While at Northridge, he had the good fortune to meet his future wife Sue Carter, who also got her B.S. in Geology. They have been married for 25 years and have two daughters, Stephanie and Patricia.

Soon after graduating, Tony was off to Bakersfield taking a job with Getty Oil at the Kern River oil field. What a marvelous training ground that was. The management at Getty had great respect for the importance of geology in the success of petroleum operations. Under the tutelage of such notable geologists as Leon Earnest and Geoff Nicholson, Tony was imbued with a respect for thorough geologic study that remains with him today.

The selection of Bechtel Petroleum Operations, Inc. as operator of Elk Hills for the Department of Energy was a fortuitous opportunity for not only Tony but for the citationists as well. It was there that we met Tony and had the opportunity to work on a truly world class oil field. Tony's work on the Stevens zone turbidites of the Elk Hills oil field provided critical understanding of the geometry, and improved the recovery of reserves from these world class reservoirs.

Along the way, Tony contributed a great number of papers, field trips, and presentations to Pacific Section conventions and San Joaquin Geological Society meetings. Tony has written, co-authored or presented more than 30 papers on the petroleum geology of California. Notable was his co-editing with Jon Kuespert of PSAAPG Guidebook 65, "Structure, Stratigraphy and Hydrocarbon Occurrences of the San Joaquin Basin, California"; one of the most popular volumes ever published by the Pacific Section AAPG.

In 1998, Occidental Petroleum acquired the Elk Hills field and Tony continued to provide his understanding of that field toward the effort to maintain and grow its production. In 2002, Tony was chosen to move to Houston and assist Occidental's efforts to increase their stake in worldwide oil and gas exploration. He continues to provide his unique and insightful understanding of petroleum geology to projects in Southeast Asia and Africa.

Stephen A. (Tony) Reid is most deserving of this special recognition of his technical contributions to the success of not only the oil companies he has worked for but to the geologic community at large. It is contributions like his that make the publications, the dinner meetings, and the conventions of the Pacific Section AAPG all worthwhile.

- Mark Wilson & Larry Knauer

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AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

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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 September & October 2005 issue is August 25, 2005.**

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

March & April 2005 password: **quartz23**

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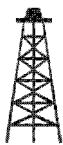


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# Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

November & December • 2005

## Message from the President

Much has happened in the world of petroleum over the past two months. September and October were rough, as people on the Gulf Coast assessed their personal situations in the wake of Hurricanes Katrina and Rita, while the price of gasoline shot upwards. And many of our fellow geologists, along with thousands of others, are still without homes; our hearts go out to them. On the Pacific coast, we should feel fortunate to be without travail at this juncture; but the thought for us is always that an earthquake is lurking just around the corner.

There is no way to be completely and fully prepared for a natural disaster. However, this fact alone should not deter wise men and women from thoughtful planning for such an eventuality. Our residence along the Pacific rim, from San Diego to Anchorage, behooves us to take stock of our emergency supplies and communications plans. At my office, we are holding a continuity of operations exercise next week so that improvements can be made in our plan and in our thinking.

As was dramatically evident after the hurricanes, communications is a key element to rapid response in an emergency, and one that lends itself to easy testing almost any time. To bring this closer to home, the same can be said for any organization's health: the better the communication, the better the organization will function. The Pacific Section AAPG depends on discussion of issues, and we have various venues available for those purposes.

First, there is ubiquitous email - it can fill up an inbox in an instant, but is certainly cheap and quick. Then there are meetings for PSAAPG business, where face-to-face interaction occurs, usually accompanied by a lunch or dinner meeting at one of the local societies. The biggest event by far is the annual convention, where information is exchanged via presentations, posters, panels, and parties. Partaking of these opportunities

is open to all, and expands horizons and friendships, adding lifeblood to a vibrant organization of volunteers.

Please read further in this edition of the Pacific Petroleum Geologist for a picture of the web of activity that is the Pacific Section; a description is provided of the jobs people do on your behalf. Get to know the people behind the scenes who make things click. And see how easy it would be to say yes next time someone asks for your help - or better yet, step right up and shout out a job you'd like to do. We are all ears. Being part of the Pacific Section AAPG is fun and fruitful; you will be happy you did.

Joan Barminski

## Pacific Section AAPG Framework

My goal in describing, however briefly, the work being done within the framework of the Pacific Section AAPG Executive Committee and Standing Committees is to illuminate the contributions being made and to give the reader insight so that future volunteering is encouraged. The current officers or committee chairs are indicated in the brackets. I have been involved with the Coast Geological Society and Pacific Section AAPG for almost 20 years, and found only positive experiences as a result.

- Joan Barminski

### — In This Issue —

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## Pacific Section AAPG Framework (cont.)

**Executive Committee** (Note, the President (President-Elect and Past President included herein), Vice-President, Treasurer and Secretary are elected officers; the affiliated society Presidents are elected by their respective societies; the Newsletter Editor is appointed by the President.)

**President:** Serves as the representative of the Pacific Section AAPG members; liaison with the National AAPG for the Section. [Joan Barminski]

**President-Elect:** First year of a 3-year commitment to serve the Section; learning with the President about the section responsibilities; serves as the Executive Committee's liaison to the Conventions Committee. [Mike Wracher]

**Past President:** Advises the president, based on past experience; keeps president apprised of upcoming duties and activities. [Steve Sanford]

**Vice-President:** Assists in various capacities and on special assignments, determined throughout the year. [Mike Clark]

**Treasurer:** Manages the funds in the Pacific Section accounts; collects dues; disburses allocations to local societies; serves as Treasurer for the Pacific Section AAPG Foundation. [Melissa Kolb]

**Secretary:** Keeps records for the section; takes notes at each Executive Committee meeting; distributes agenda for upcoming meetings; organizes elections. [Janet McAlee]

**Associated Society Presidents and/or Representatives:** Each associated society's President is a member of the ExComm, representing his or her society at meetings and events; ties the organization together. Currently, the societies include the Alaska Geological Society [Kristine Crossen], Coast Geological Society [Shaun Simon], Los Angeles Basin Geological Society [Jon Kuespert], Northern California Geological Society [David Bero], Northwest Energy Association [Debra Gellar], Sacramento Petroleum Association [Rick Blake], and San Joaquin Geological Society [Rob Negrini].

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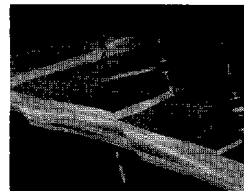
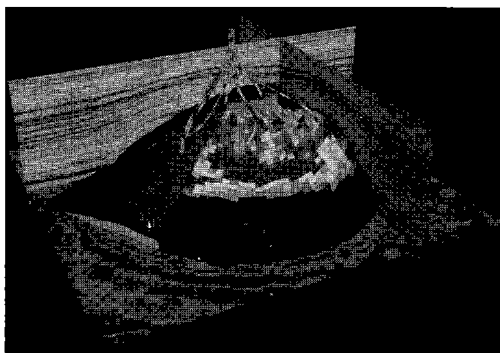
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  - ✓ add confidence to economics and reserves

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## Pacific Section AAPG Framework (cont.)

**Newsletter Editor:** Publishes the Pacific Petroleum Geologist newsletter every two months; solicits and collects news from the local societies; interfaces with the Webmaster to publish pertinent information on the website. [Karen Blake]

**Webmaster:** Maintains the PSAAPG.ORG website, publishing information supplied by the Executive Committee; manages email from the site. (The Webmaster works in conjunction with the Newsletter Editor to foster communication within and outside the Section.) [Hana Baker]

**Standing Committees** (Appointed by President)

**Finance:** Prepares annual budget in July for the upcoming fiscal year. [Muriel Norton]

**Membership:** Prepares and sends out annual membership renewal forms; maintains membership database; shares information with local societies; encourages new members to join. [Mark Yarlot]

**Planning and Organization:** Past officers serve on this committee, providing continuity to the operations of the entire Pacific Section AAPG, and setting long-range goals and objectives for the Section. [Tom Hopps, Steve Sanford, et al]

**Legislative and Public Affairs:** Keeps an eye on the goings-on in State and National government and advises the ExComm on any impending issues. [Rick Blake]

**Publications:** Manages the technical publications of the Pacific Section; oversees editorial and printing processes; stores and sells publications, maintaining inventory. [Larry Knauer]

**Directories:** Publishes updated directory of Pacific Section AAPG in coordination with the SEPM and SEG, every other year. [Adam Mahan]

**Honors and Awards:** Solicits and reviews nominees for Pacific Section awards; makes recommendations to the ExComm; coordinates presentations at the annual convention. [Bob Lindblom]

**Conventions:** Initiates plans for annual conventions; oversees the operations of each convention; maintains records, statistics and guidelines. [Larry Knauer and Kay Pitts]

## Other Important Section Functions

**Youth Activities and Education:** Organizes the annual quest for Teacher of the Year; advises the local societies about the program and collects their nominations for the Pacific Section award; advises the ExComm on community outreach. [Sandra Syzmanski]

**Constitution and Bylaws:** On request of the ExComm, attends to issues arising that require revision or updating. [Rob Fairman]

**National Advisory Council Representative:** Represents the Section at the AAPG Advisory Council meetings. [Don Lewis]

**Division of Environmental Geosciences Representative:** Brings information to the ExComm from the DEG perspective; forges new relationships with groups within the DEG realm. [Barbara Houghton]

**Division of Professional Affairs Representative:** Informs the ExComm of DPA issues and initiatives; engages in the annual conventions. [John Armentrout]

**California Well Sample Repository Representative:** Serves as liaison to the repository, located at Cal State Bakersfield. [Larry Knauer]

**Pacific Section AAPG Foundation Representative:** The Foundation was established by the PS AAPG as the charitable arm of the organization; administers scholarships for students and teachers, supports publications, etc. [Mark Wilson] •

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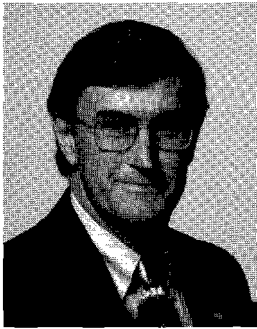
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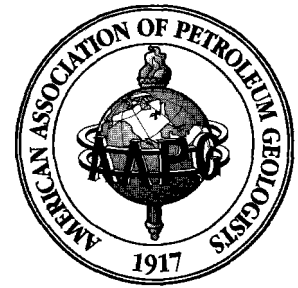
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## Unity for AAPG

**Don Clarke, Chairman of the House of Delegates**



I've had a busy month traveling to Paris, France, Morgantown, West Virginia and Jackson Hole, Wyoming. On the trip I attended two AAPG Executive Committee meetings and held four House of Delegates events. Our society is very dynamic and the adjustments to our changing world require AAPG to change. What I have found is a willingness of the members to share their ideas. The big topics are international participation in AAPG and petition candidates. Everyone has an opinion and almost everyone has a strong opinion. I have published a brief article on the petition candidate issue in the current Delegates Voice. Please read it and get back to me with your suggestions. International participation in AAPG is very important to our future. Many members of the Pacific Section work primarily on oil fields that are located over seas. Some of these areas like South America are defined as regions in AAPG. But unlike the European Region the South American Region is not very active. Do we need to encourage their participation in some way? If so, then how?

Some complain that dues are too high for international members. I don't buy it. I also do not want the United States membership subsidizing the international member's dues. As in this country the oil companies could pay the membership dues for the AAPG members. Many of you work with these international companies. I ask you to suggest to these companies that they pay the members dues in AAPG. This would go a long way towards cementing international participation.

International travel is difficult for these people. Often there are restrictions and visas are difficult to obtain. Political unrest also leads to problems. What should we do? Are regional conventions the answer? How about USA Domestic Sections adopting International Regions? I'll go a step further. How about Pacific Section joining together with the Asia/Pacific Region and holding a joint convention in Hawaii. In this way we can share the strengths of the Pacific Section with a region that needs help. I think that they also have things to share with us. The Asia/Pacific Region benefits, the Pacific Section benefits and so does AAPG! •

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# AAPG House of Delegates Members



<b>Alaska Geological Society</b>	Mr. Arlen Ehm	Delegate	
	Mr. David Hite	Delegate	
<b>Coast Geological Society</b>	John A. Minch, PhD	Delegate	2007
<b>Los Angeles Basin Geological Society</b>	Ms. Karen E. Blake	Delegate	2006
	Mr. Donald D. Clarke	Delegate	2006
	Mr. Dalton F. Lockman	Delegate	2006
<b>Northern California Geological Society</b>	Melville Erskine, Jr., PhD	Delegate	2006
	Mr. Donald W. Lewis	Delegate	2007
	Mr. Robert G. Lindblom	Delegate	2007
	Frank J. Picha, PhD	Delegate	2006
	Mr. Donald W. Downey	Alternate	2007
	Mr. John R. Gilbert, Jr.	Alternate	2007
<b>Northwest Energy Association</b>	Mr. James S. Jackson	Delegate	2006
	Mr. George C. Sharp	Delegate	2006
<b>San Joaquin Geological Society</b>	Mr. Robert L. Countryman	Delegate	2006
	Mr. Larry C. Knauer	Delegate	2006
	Mr. Mark L. Wilson	Delegate	2006
	Robert A. Horton, Jr., PhD	Alternate	2006
	Ms. Kay L. Pitts	Alternate	2006



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# Traveler's Log

## Wild Trout lands in Hot Water!

Throughout the Eastern Sierra, you will find pockets of warm spring waters bubbling to the surface. One of the more famous locations is at the Hot Creek Geological Site near Mammoth Lakes. The Mammoth area is home to a large amount of geothermal activity and Hot Creek is actually a cold creek that is warmed as it flows through some miniature geysers.

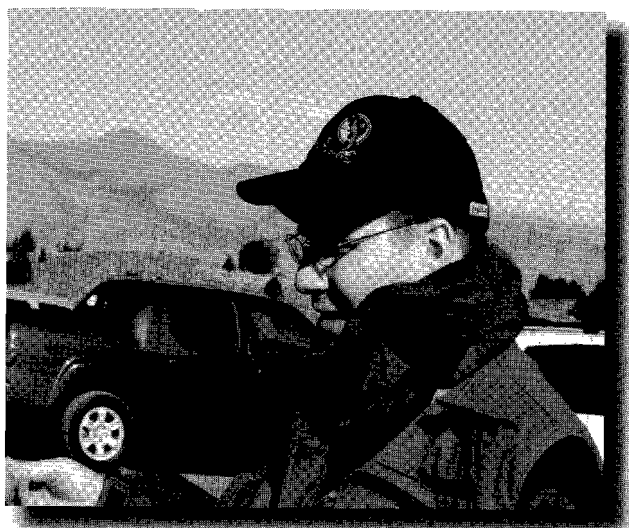
### Hot Creek Geological Site

Boiling hot springs, fumaroles and geysers are found here. Some of these pump hot water into the water flowing down from Mammoth Creek warming the water into what is called Hot Creek. Swimming is officially not advised but the many soakers will tell you, "come on in, the waters fine", and it is. What makes Hot Creek so spectacular is the view, and the way the water mixes. Melted snow falls into cracks which is heated by the earth. It bubbles up boiling hot in the ponds and mixes with other just melted snow making the temperature very appealing.

Hot Creek has been designated as official Wild Trout Stream. Only naturally reproducing trout exist in stream which include Rainbow and Brook Trout. Other fish include the Gambusia, Owens Sucker and Tui Chub.

Located, three miles south of Mammoth Junction on US 395 and three miles east of the airport (the last 1.5 miles is unpaved). You take the Airport Road and drive past the Hot Creek Fish Hatchery. Hot Creek is a phenomenon of live hot springs and fumaroles (gas vents) that heat a cold mountain stream. Parking lot and restrooms. Open sunrise to sunset; no charge. Swimming is not recommended. And we recommend not swallowing the water as it contains sulfur and arsenic. For more information, call the US Forest Service at 760-924-5500.

Information for this article was obtained from the [www.cityconcierge.com/activities/hot\\_tubs.shtml](http://www.cityconcierge.com/activities/hot_tubs.shtml) and the [http://gorp.away.com/gorp/resource/us\\_national\\_forest/ca/see\\_iny3.htm](http://gorp.away.com/gorp/resource/us_national_forest/ca/see_iny3.htm) websites.



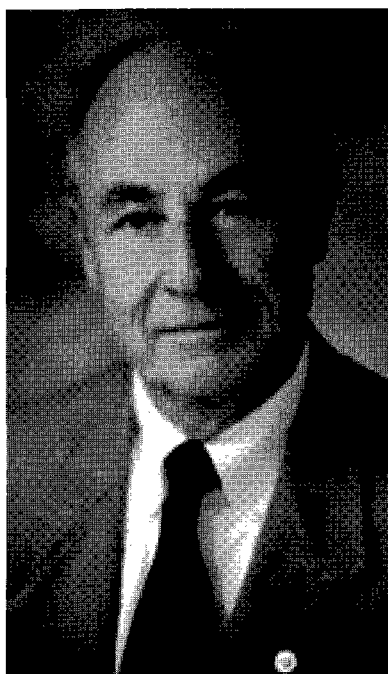


## *The Waves of Time*

*While the waves of time,  
and the tides of age  
ebb gently through our lives  
They create the dunes  
we try to rise above  
and so, in faith as we  
struggle against the tides  
we learn to drift  
upon a sea of  
blissful tranquility,  
and let the blessings  
of the ages, wash away  
all the fears of yester-  
years, today*

*Dan Farris*





EUGENE F. "BUD" REID

Sept. 28, 1926 – Oct. 2, 2005

---

One does not hope to summarize the life of Bud Reid on a single page; with much deserved narratives and anecdotes it would require a fat book.

Aside from his professional and philanthropic accomplishments he was a good family man, married for over fifty years to his lovely wife Marge. Together they raised three sons, Scott, Kip and Chet, and daughter Jenny.

A native of Long Beach, Bud attended local schools before serving in the U.S. Navy in the Philippines from 1944-46. Returning home he attended Stanford University and in the summers worked for his father, E.C. "Gene" Reid at Gene Reid Drilling Company in Bakersfield. Bud graduated with an M.S. in Geology, married Marjorie Reese in 1952 and went to work for a few years for Shell Oil Company, but soon joined his father at Gene Reid Drilling.

In 1959 Armand Hammer approached Gene and Bud to merge because he needed expertise in how to find oil and how to drill a well, and he wanted a team of honest men. They quickly formed Occidental Petroleum Corporation. That same year Bud hired Richard Vaughan from Franco Western and Robert Critchlow from Honolulu for geology, and Charles Horace from Franco Western for engineering; Robert Teitsworth from Amerada and others soon followed. Away they went, hat off and hair flying. Bud was in charge and liaison between Bakersfield and Los Angeles. He never told Hammer how to raise money for drilling ventures, and made sure that Hammer never told the Bakersfield staff how to spend it. Bud's special attribute was his amazing attention to detail. Contracts, agreements, reports, forecasts or whatever, he pored over them until they were subject and letter perfect. When collating thick documents for mailout, he formed the "Mickey Mouse Club" with all the secretaries wearing Mickey Mouse badges and singing as they marched around the tables organizing the pages. When Bud joined Oxy, the annual cash flow from oil and gas was about \$200,000. By the time he left his team had found significant production, first at Lathrop gas field in Sacramento Valley, then East Beverly Hills oil field, and soon after world class production from Libya and the North Sea; and annual income from oil and gas had risen to several hundred million dollars. It was great fun!

One of Bud's favorite stories (and he had many) was to recall that in Libya Oxy had identified five pinnacle reefs. The best-looking one couldn't be drilled first, so the less important "A Reef" got drilled first. It was like a 900-foot-high tank of oil with sloping sides holding one billion barrels of oil. When the best reef was then drilled it was sopping wet (breached) – a good thing it wasn't tested first!

After Bud left Oxy he became a successful independent continuing his lifelong pursuit of oil and using the acronym Liodier, LLC. (That's Reid Oil backwards). More importantly he became deeply involved in philanthropic organizations, besides being National President of AAPG. He became so key

# Member News

## Pacific Section AAPG - Farewell to Friends

a person in the scouting movement that he was ultimately the International Chairman of the Boy Scouts. He also loved the values that drove Pyles Boys Camp and the difference it made in boys lives, and for a time served as President. I remember a Pyles dinner meeting. Bud was eating a tuna sandwich when a lady got up and announced that she had been hired to write grants for Pyles and thought she could raise \$100,000. Bud put down his sandwich, stood up and said "if you can raise that amount I'll match it", then just sat back down and took another bite of sandwich. That was Bud!!

He was one of the World's best men, lighthearted, sincere, honest and generous. He leaves a host of folks that will always honor his memory and be enriched for knowing him.

With deep affection,

Stanford Eschner

## Family's Request

Bud's Family requests those wishing to remember Bud consider donating in Bud's memory to such worthy Foundations as:

The E. F. Reid Scouting Fund  
or  
The E. F. Reid Dibblee Fund

Both of which are managed by the AAPG. If you wish to remember Bud through either of these organizations, please send contributions with the fund identified to:

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The R. M. Pyles Boys Camp Foundation is also a Foundation that was very important to Bud. If you wish to remember Bud through this life building organization, please send contributions to:

R. M. Pyles Boys Camp  
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Bud also was a strong supporter of the Pacific Crest Trail Association, and their effort to preserve this jewel in the crown of America's scenic trails for posterity. The PCTA is located at the following address:

# Member News

Pacific Section AAPG - Farewell to Friends

## Remembering Bud by Jeff Rayner

One of Bud's Favorites



“Don't worry - it's a typical field trip -  
One outcrop, two geologists and three interpretations!”

### GREGORY GEOLOGICAL SERVICES

**Glenn J. Gregory**  
Calif. Reg. Geol. #3676

(661) 663-8542 Phone/Fax (661) 633-5555  
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Bakersfield, CA 93311 Bakersfield, CA 93309  
glennj@bak.rr.com

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# Member News

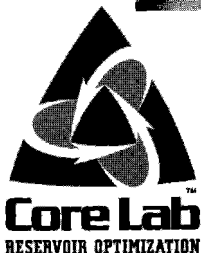
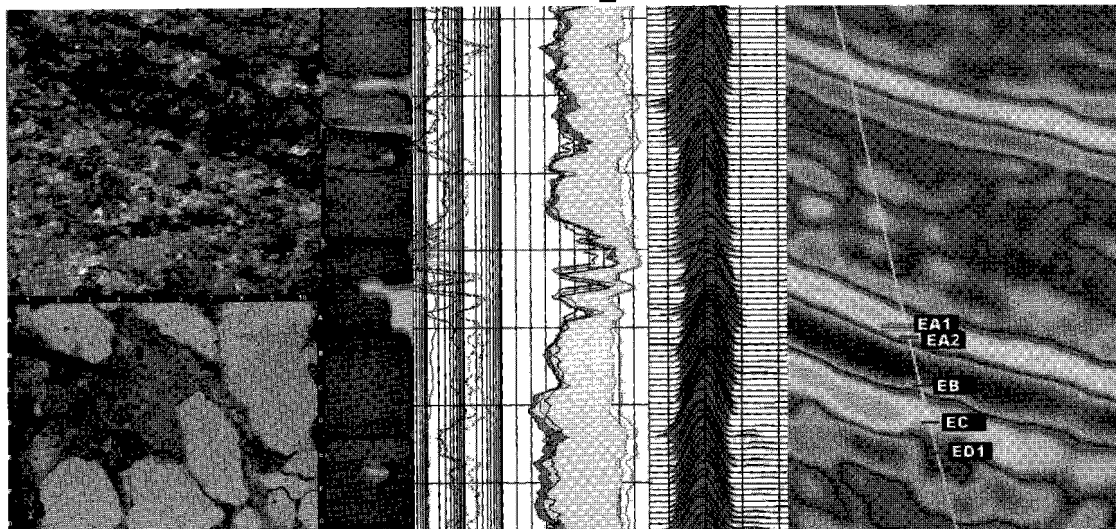
Pacific Section AAPG - Farewell to Friends

Navy Radio Speak from Bud at the Nugget, June 8th, 2005

Able Baker Charlie Dog Easy Fox George How Item Jig  
King Love ~~Mable~~ Nan Oboe Peter Queen Rodger Sugar  
Tear Uncle Victor William X-ray York Zebra

Bud Reid

## Reservoir Optimization



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 where thin layer effects delay according to R<sub>o</sub>

RECORD CONDUCTIVITY

$C = \frac{1}{R}$  Unit of Conductivity mho  
 $R = 0; C = \infty$   
 $C = 0; R = \infty$

Usual logging unit - mho/meter  
 $C$  in mho/meter =  $1000/R$  in  $\Omega M$   
 If  $R = 100 \Omega M$   $C = 10$  mho/meters

Induction log most sensitive in low resistive formations  
high conductive

Alternating current through coil sends out eddy  
 currents - picked up by receiver

Spacing between receiver & transmitter gives an "L"  
Geometrical factor?

IF INVASION EFFECTS 64° NORMAL THEN INDUCTION LOG OF LIMITED VALUE

# Member News

Pacific Section AAPG - Farewell to Friends



“Go for the Gold”


## Editor's Comments

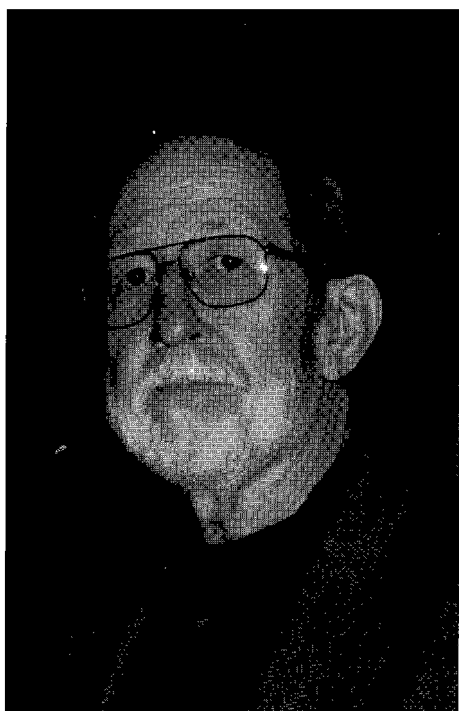
With the passing of so many giants in the geologic community in the last year, I asked Jeff Rayner to pull together a few pictures and stories on Bud for those of us who did not know Bud. Jeff provided an outstanding presentation on Bud's life, his humor and his passions.

Jeff's entire tribute to Bud Reid can be found at <http://psaapg.org/> in the “Members Only” section.

User: psaapg  
Password: liodier

Thank you, Jeff.

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TOR HELGE NILSEN

Nov. 29, 1941 – Oct. 9, 2005

Consulting petroleum geologist Tor Helge Nilsen died October 9, 2005, after a valiant and dogged, five-year fight with melanoma cancer.

He was born in New York City on November 29, 1941, to Mollie Abrahamson and Nils Marius Nilsen of Mandal, Norway, and was the first of their children to be born in the United States. After attending Brooklyn Tech, he earned his B.S. in geology from City College of New York in 1962 and then his M.S. and Ph.D. degrees in Geology from the University of Wisconsin at Madison in 1964 and 1967. His M.S. thesis was a study of Precambrian metasedimentary deposits in the Lake Superior area, and his Ph.D. thesis a study of Devonian alluvial-fan deposits of the Old Red Sandstone in western Norway.

Dr. Nilsen's principal expertise was in depositional systems analysis, stratigraphic analysis, and the

relationships among tectonics, eustasy, and sedimentation. He began his industry career in 1967 as a research geologist with the Shell Development Company in Houston and Ventura, where he worked on the tectonics and sedimentation of Tertiary shelfal systems of coastal California. He subsequently spent two years with the U.S. Army Corps of Engineers as Military Assistant to the Chief of the Gravity Division at the U.S. Army Map Service, followed by continued gravity research as a civilian geophysicist for AMS. He joined the U.S. Geological Survey in Menlo Park, California, as a research geologist in 1969, working on onshore geologic studies in California, Alaska, Idaho, Oregon, and Italy; he also participated in several offshore USGS research cruises in the eastern Pacific and Arctic Oceans and was a sedimentologist on DSDP Leg 38 to the Norwegian-Greenland Sea.

In 1985, Dr. Nilsen became President of RPI Pacific Inc., a newly formed geological consulting firm in Redwood City, California, that undertook a series of exploration- and development-oriented studies for the petroleum industry in the western U.S. In 1987, he organized and became President and CEO of Applied Earth Technology Inc., a consulting firm located in Redwood City that conducted regional and local exploration- and development-related studies for petroleum and mining companies operating in onshore and offshore California and Oregon, Alaska, the Middle East, Montana, Indonesia, and Canada. Since 1991, Dr. Nilsen was an independent consulting geologist, completing numerous detailed studies in Indonesia (East Java, Offshore Northwest Java, West Natuna Basin, offshore Irian Jaya), Brunei, China, the North Sea, offshore West Africa, the Middle East, Italy, Alaska, Montana, Nevada, and California. Dr. Nilsen published more than 300 geological papers, books, and abstracts, including a recent reclassification of strike-slip basins, and an extensive treatise and guidebook for the giant Midway-Sunset oil field in the San Joaquin Valley of California, written with Santa Fe Energy colleagues Glenn Gregory and A. J. Wylie.

## Member News

### Pacific Section AAPG - Farewell to Friends

Dr. Nilsen taught numerous short courses and field seminars for the petroleum and mining industries, including two AAPG Field Seminars, one on Turbidite Systems in California since 1984, and a second on Exploration in Strike-slip and Rift Basins (with Arthur Sylvester) since 1989. He organized an SEPM Field Seminar on Intermediate-Water-Depth Reservoirs, was a lecturer for several short courses, including the AAPG Deep-Water Clastics School, and the SEPM Modern and Ancient Submarine Fan Systems Course (with Hans Nelson). He also taught courses in Depositional Systems Analysis, Basin Analysis, Exploration and Development of Turbidite Reservoirs, Exploration and Development of Fluvial Reservoirs, Exploration and Development of Shallow- and Deep-marine Reservoirs, Exploration in Strike-slip and Rift Basins, Fundamentals of Petroleum Geology, and Structural Geology in

Petroleum Exploration. He taught inhouse courses and field seminars for major petroleum companies such as Shell, BP, Conoco, Texaco, Saga, Saudi Aramco, Kuwait Oil Company, and Unocal as well as for societies such as the Northern California Geological Society, San Joaquin Geological Society and Indonesian Petroleum Association, universities such as Caltech, Berkeley, San Diego State, Turin, Florence, Bari, Bergen, Oslo, and Lund, and companies such as IHRDC, Robertson, P.T. Geoservices Ltd., and Petropros. He has conducted short courses overseas in Indonesia, Malaysia, Thailand, China, Australia, Tunisia, Egypt, Algeria, Nigeria, Saudi Arabia, Kuwait, Italy, Norway, France, Great Britain, and Sweden. In recognition for his long and dedicated service to the profession, Tor was made an honorary life member of the Pacific Section of the AAPG.



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# Member News

## Pacific Section AAPG - Farewell to Friends

Dr. Nilsen was a consummate connoisseur of good food and wine, an avid student of San Francisco history, a lover of all kinds of music, was fluent in five languages, and he had an encyclopedic knowledge of professional basketball and baseball statistics. He was a basketball player all his life, being drafted by the New York Knicks. Last spring, only two days after extreme chemotherapy, he played in the finals of the National Seniors Olympic Basketball Championships. In the preceding year, he was the top scoring senior in the nation.

Dr. Nilsen was a unique individual with a keen scholarly intellect, an unquenchable zest for knowledge, and a highly competitive level of physical accomplishment. He had many remarkable facets to his life that he perfected to the highest degree, with modesty and humility.

Dr. Nilsen is survived by his wife, Paula Jefferies, sons Anton and Erik, and daughters Siri and Brit. They, all his friends, professional acquaintances, and admirers will miss this remarkable man very deeply.

Arthur G. Sylvester

---

## Family's Request

Contributions in Dr. Nilsen's name may be made to:

Department of Geology and Geophysics  
University of Wisconsin  
215 W. Dayton St.  
Madison, WI 53706

## Ah Yes, I remember him well....

"He had the best maps around, bar none." ...  
"They're very important contributions to the scientific community," said Cook, who recalled Mr. Nilsen as a good companion on international field studies, where getting the job done meant climbing mountains, drinking beer and "getting down and rowdy and talking about geology."

Harry Cook, U.S. Geological Survey  
(San Francisco Chronicle)

Tor will be remembered for his contributions to California geology and as a world-class deep-water sedimentologist. Beyond that, I appreciated his commitment to doing quality work. Tor's work was rooted in the fundamentals, and conclusions he reached were based on lots of hard work and observation, collecting evidence that would lead to irrefutable conclusions. That's what his California turbidite course stressed: multiple examples of canyon, slope and basin floor systems throughout the state. Outcrop after outcrop looking at the details.

Tor always cautioned against jumping to conclusions. Those of us in the petroleum business frequently are called upon to speculate on the nature of a geological problem by drawing conclusions from a less than adequate database. An unfortunate experience I recall was at the 1989 Palm Springs convention, where I outlining evidence from the San Joaquin basin that supported a seaway across the Sierra to the Ridgecrest area. Tor was one of the three people in the audience that afternoon. As I conjured up models to explain the origin of the seaway, Tor stared at me with that "what an idiot" look that he could do so well. Following the talk, Tor was polite enough to not publicly chastise me, but did privately suggest I do more reading before presenting the concept again.

On several occasions over several years I asked Tor about the tectonic origin of the block (the Ben Lomond highland) that sourced the Point of Rocks submarine fan. Was it movement on a proto-San Andreas fault? The arrival of an exotic terrane? I never could pin him down. I think he just never saw enough evidence to form a solid conclusion. And that is ok - we should resist being drawn to premature conclusion.

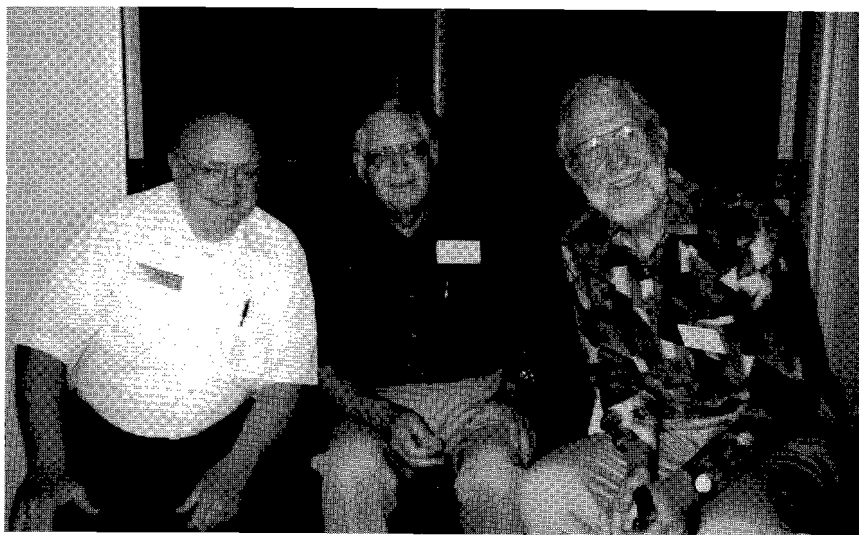
Tony Reid, OXY

## Member News

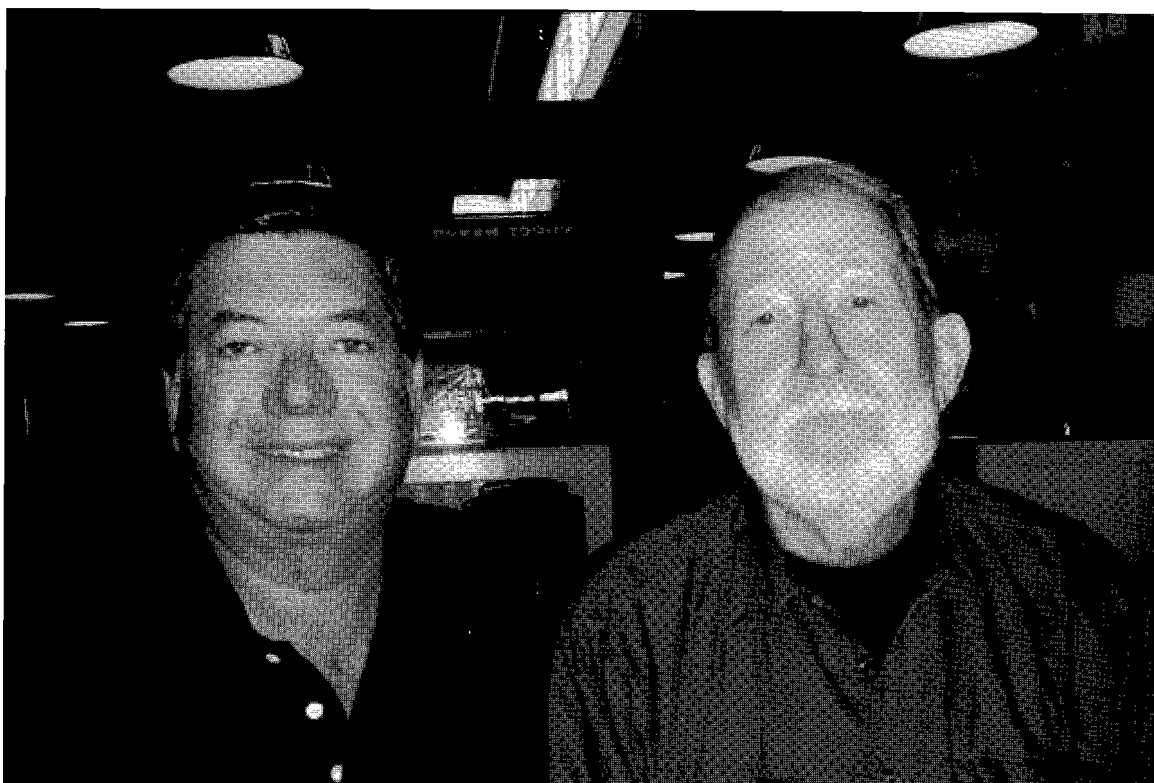
### Pacific Section AAPG - Farewell to Friends

Some people are just interesting and pleasant to be around. I always looked forward to finding Tor at the PSAAPG annual meetings because I knew the conversation would invariably be interesting and often entertaining. We often asked Tor to help describe cores for us. He would swoop into town, describe the core, politely point out the depositional environment that we had not picked up on, and then be off the next day to teach a class in Indonesia. Tor was his own man and was very cool about it.

Larry Knauer, Chevron



Mel Erskine, Tom Wright and Tor Nilsen - 1997 Convention



Glenn Gregory and Tor Nilsen - August, 2005 in Palo Alto

# Member News

Pacific Section AAPG - Farewell to Friends

## OXY Fieldtrip - 1999



Photos contributed by Karen Blake

### Phantom Forbes

by Scott Hector

I recently went on a field trip with Doug Imperato and Tor Nilsen that promised to show the attendees the gas-bearing strata of the Sacramento Basin. On day 1 of the 2-day \$400 affair, we traveled to several locals to look at exposures of the Upper Cretaceous Forbes Formation.

The first exposures were along a creek in the Rumsey Hills on the west side of the valley. It was a great day, with a few clouds and temperatures in the 70's. We traveled along a paved and then not-so-paved county road, until we came to outcrops of the Dobbins Shale and overlying Forbes sands. There were some good and some not-so-good exposures of five channel sands. We took notes, all nineteen of us (17 students and 2 leaders). While some wrote their notes, I took mine with a new toy, a Nikon "Coolpix" 5600 digital camera. That is, I "took" them until the "LOW BATTERY" warning came on.

We then trundled into our two Suburban vans and drove across the valley to Colusa for lunch at the State Park at the edge of town. The park lies along the Sacramento River. While having lunch, Doug succumbed to my request for getting more batteries for my camera, if a store could conveniently be found on the way to the next field trip stops.

We left Colusa, driving right through town but not stopping for my batteries! Would I ever be able to take more pictures on this trip? We even drove past Meridian, the small town made famous by a visit from then Vice President Al Gore in 1997 or so when he flew in on a helicopter to thank the men and women there for their heroic fight against flood waters, which had entirely circled the town. We turned north off the main highway and headed toward the Sutter Buttes, our next stop. Doug drove right past a service station, but then finally turned into a small market. A got out and rushed toward the door, to buy my batteries!

Doug rolled down the window to his van and shouted, "Hey, while you're in there get the drilling report."

I shouted back, "What the hell are you talking about?"

He said, "Scott, walk back to where you can see the name of the store!"

I did. Up above the awnings over the entrance to the small market was the name "MUNGERS"! Yep, the same name as the daily drilling report that many of us get that keeps us updated with oil and gas and geothermal well drilling on the Western Coast of the good 'ol USA- from Arizona to Alaska.

I bought the batteries and on we went towards the Buttes. We all got out and lined up to jump over a barbed-wire fence and head up a canyon towards South Butte. We were going to look at outcrops of the Eocene and Upper Cretaceous beds of rock that had been lifted up when the Sutter Buttes volcano reared his head out of the sediment a few million years ago. A lot of rhyolite and some andesite spewed out from the crater. As it came up and out, it heated a lot of the surrounding rock and created very interesting textures in the sedimentary strata. Our intent was to climb about half way up the butte in front of us to see all that was intended to see.

### DAVID B. DEL MAR

Consulting Petroleum Geologist  
California Registered Geologist #634

Development – Thermal EOR – Property Reviews

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## Member News

Pacific Section AAPG - Farewell to Friends

### Phantom Forbes cont.

by Scott Hector

We meandered our way up the grass covered hills. A few trees cropped out of the stream channels here and there. First, we were supposed to see an outcrop of the Capay shale. We couldn't find it. "It's supposed to be right here", said Tor, looking at a small outcrop under a tree in a dry streambed. "Maybe it's on the other side of the canyon" Doug said. I was the only one over there, and had to tell Tor and Doug that I didn't see any outcrop. Somebody said "Maybe the cows wore it away or covered it up". That made me think of the cows often portrayed in the Far Side cartoons as being very intelligent, except when humans are looking. Sneaky cows!

On up the hills we went, with the sides getting steeper and steeper. Large rounded rock knobs, made of very resistant rock and covered with beautiful colors of lichen stuck out here and there from the hillsides. Tor reminded us the geologists call such knobs of rock "knockers". Most of the knockers proved to be displaced volcanic rock, but some appeared to be Kione sandstone. One of them had small caves and cracks cut in it by wind and rain, and I said "Oh look, tafoni!" Somebody near me, I think Mike Noel from Halliburton, said "Oh sure, Scott, sounds like another one of your jokes!" Fortunately, Tor was there and assured him that there really is such a name and mentioned several articles that discuss tafoni (pronounced taff-oh-knee). Tafoni is a name for the caves and cracks often found on sandstone bodies in Mediterranean climates due to erosion by wind and soil acidity. During the wet season, water brings calcium cement to the surface of the rock, which then is deposited as it dries in the hot summer into a "duricrust" shield that protects the rock from erosion. However, in places this protection is breached, and the "tafoni" is formed.

Enough about tafoni, what about the Forbes? Doug and Tor had a devil of a time trying to find some good Forbes outcrops. Unfortunately, they had just gotten permission from the landowner to go on the property a day or two before the trip. So, they had had no time to scout out the place before our litany of rock pickers hit the slopes. I believe Tor said he had not been there for 10 years, Doug for 15. The good outcrops of Forbes that they remembered seemed either to have vanished or the memories of them from previous field trips were better than the real thing. Anyway, some vertical beds seemed to be Forbes, and we got a look at them. The outcrops that looked good from a distance always turned out to be volcanic. We had one field tripper from Alaska, Rocky, who was in great shape and became our outcrop runner. He was almost a half mile ahead of everyone else on the mountain slopes, so we got him to yell down what an outcrop was so that, in case it was volcanics, the rest of us didn't have to go to the trouble of getting there. "Rhyolite!" he yelled down more than once.

Anyway, it was a good field trip day. Not too hot. The cows were cordial. Some of us had bad ankles, or a bad knee, I had bad Achilles tendons. But, we all made it up and back off the Buttes. No child left behind.



May 2005  
Outcrop Geology of Some Gas-Producing Strata  
of the Sacramento Basin

# Member News

## Pacific Section AAPG - Farewell to Friends

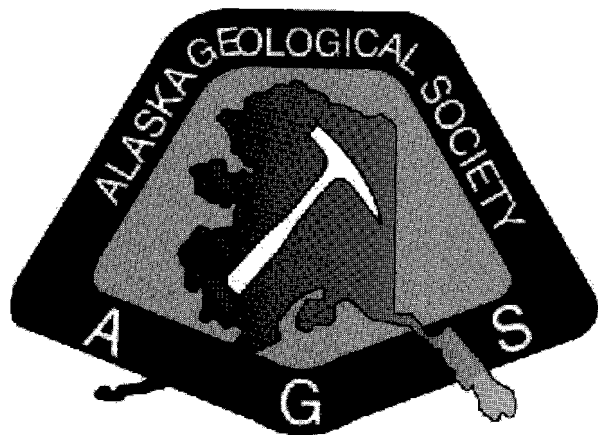
CHARLES DEY FOSS

Jan. 16, 1917 – Oct 15, 2005

Charles Dey Foss passed away on October 15, 2005, at the age of 88. He was born January 16, 1917, in Salt Lake City, Utah. A World War II Veteran and longtime resident of Bakersfield, he spent over 35 years as a Petroleum Geologist, retiring from Getty Oil Company in Bakersfield in 1982.

Charles' contribution to the 1972 Guidebook "Geology and Oilfields West Side Central San Joaquin Valley" was the paper titled "A Note on the Fluid Leve Traps in the San Joaquin Valley". This was the first time someone had written about this type of trap in the San Joaquin Valley. Kern River, one of the largest oilfields in the country, is this type of trap.

He loved traveling and the outdoors. Charles was preceded in death by his wife of 35 years, Lucy. He is survived by their children, Nancy Eckert and Sharon Koop; grandchildren, Joel and Michelle Eckert and Joshua and Caleb Koop and great-grandchild, Ethan Eckert.



## CALL FOR PAPERS

2006 Joint Meeting

Pacific Section - AAPG

Cordeilleran Section - GSA

Western Region - SPE



## CALL FOR PAPERS

2006 Joint Meeting  
Pacific Section - AAPG  
Cordilleran Section - GSA  
Western Region - SPE

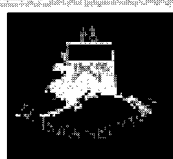
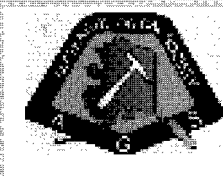
### *North to Alaska: Geoscience, Technology and Natural Resources*



**Technical Sessions**  
**May 8-10, 2006**  
**Anchorage, Alaska**

**Deadline for Submitting Abstracts**  
**February 7, 2006**

Hosted by



### Message from the Technical Program Chairpersons

It is with great pleasure that we announce the joint meeting of the Pacific Section - AAPG, the Western Region - SPE and the Cordilleran Section - GSA. This joint meeting is scheduled for May 7-10, 2006 in Anchorage.

The theme of the meeting "North to Alaska: Geoscience, Technology, and Natural Resources" highlights the challenges, high stakes, and excitement offered through technology to deliver our energy and natural resources in the future. The broad format of this joint conference promotes emphasis on innovation and cross-discipline approaches in energy and natural resources development. With a wide span of technical presentations, forum topics, short courses, field trips and poster sessions, this meeting is sure to offer something for all professionals involved in the petroleum and natural resources industries, as well as the those involved in Cordilleran and Arctic geoscience studies.

From the AAPG and SPE perspective, the conference will include a broad range of oil and gas development topics, but with a focus on challenges and advances in the areas of:

- Petroleum geology of the North Slope
- Emerging opportunities through viscous oil and arctic gas development
- Rural energy in Alaska
- Recent advances in reservoir characterization
- Geology of the Circum-Arctic and Cordillera

This joint conference of geoscientists and petroleum engineers should present a stimulating forum for the exchange of ideas and innovations across disciplines.

You are invited to get involved and help shape this conference by submitting an abstract for an oral or poster presentation in the technical program. We look forward to hearing from you!

For more information visit: <http://anchorage2006.com> or Contact one of the technical program chairs:

Sandy Phillips, PS-AAPG, 907.564-4587, [phillis2@bp.com](mailto:phillis2@bp.com)  
Gordon Pospisil, SPE-A, 907.564-5769, [pospisg@bp.com](mailto:pospisg@bp.com)  
Alison Till, CS-GSA, 907.786-7444, [atill@usgs.gov](mailto:atill@usgs.gov)

Sincerely,

Sandy Phillips	Gordon Pospisil	Alison Till
BP Expl.	BP Expl.	U.S.
(Alaska) Inc.	(Alaska) Inc.	Geologic Survey

## 2005 Dibblee Medal Awarded to

### Rowland W. Tabor

The 2005 Dibblee Medal, awarded in recognition of outstanding geologic field mapping, has been awarded to Dr. Rowland W. Tabor of the U.S. Geological Survey. The Dibblee Medal is awarded annually in recognition of the field geologist's extraordinary geologic mapping contributions to the geologic profession and to society. The award was presented at the annual meeting of the American Institute of Professional Geologists in Lexington, Kentucky, on October 10, 2005.

Tabor received his PhD from the University of Washington in 1961. An accomplished mountain climber, he mapped for his dissertation a previously-unmapped area in the future North Cascades National Park, working under the direction of the legendary Alpine and Himalayan field geologist, Peter Misch. After joining the U.S. Geological Survey, he led projects to map proposed wilderness areas in Washington, followed by mapping the entire Olympic Peninsula. He and his team described the accretionary-wedge origin of the core rocks of the Olympic Mountains, a geologic complex that previously had resisted characterization because of a lack of detailed mapping. He then embarked on a mapping project at 1:100,000 scale of the North Cascades of Washington from Snoqualmie Pass to the Canadian border.

Just as Tom Dibblee has mapped more of California than any other geologist, Tabor has mapped more of the State of Washington than anyone else. He is held in awe by his colleagues at the Washington Division of Geology and Earth Resources. Many graduate students and junior geologists have worked under his direction, inheriting his love of field geology and the importance of understanding geologic principles based on field work. In addition to his geologic maps, Tabor has published hiker's guides to the North

Cascades and Olympic national parks to help the traveler to the Washington back country understand and appreciate the magnificent geology that awaits the backpacker.

Tabor, the twelfth Dibblee Medallist, received his award at a busy time for the Dibblee Geological Foundation and the Dibblee Geology Center. The foundation was established in 1983 by a group of Tom Dibblee's friends and fellow geologists intent on publishing Dibblee's mapping. Covering more than one-quarter of California, Dibblee's life's work consists of about 550 detailed 7.5-minute maps, which are remarkable for their consistency from map to map and region to region.

To date, 170 maps covering about 200 quadrangles of Dibblee's work have been published. The Dibblee Geology Center—since 2003 officially part of the Santa Barbara Museum of Natural History—is laboring to issue the remaining maps as quickly as possible. The Dibblee Center plans to publish at least 60 new maps this year and quicken its release schedule for upcoming years. To learn more about Dibblee map publication or to help with funding, contact the Dibblee Center map editor, John Minch, at [jminch@sbnature2.org](mailto:jminch@sbnature2.org) or write Santa Barbara Museum of Natural History, 2559 Puesta del Sol Road, Santa Barbara, CA 93105. Dibblee maps may be purchased on the Museum web site at [www.sbnature.org](http://www.sbnature.org) or by calling (805) 231-8080.





## News from our Member Societies

Alaska Geological Society  
www.alaskageology.org

P. O. Box 101288  
Anchorage, AK 99510

Contact: Kristine Crossen  
afkjc@uaa.alaska.edu



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

### 2005 - 2006 Officers

President:	Kris Crossen	907.786.6838	afkjc@uaa.alaska.edu
President Elect:	Robert Blodgett	907.786.7416	rblodgett@uaa.alaska.edu
Vice President:	Clif Posey	907.317.2361	clif@posey.org
Treasurer:	Laura Silliphant	907.644.3208	laura_silliphant@yahoo.com
Secretary:	Tom Morahan	907.263.4094	Tom.Morahan@conocophillips.com

AGS November 1st Luncheon: John Power, USGS, Alaska Volcano Observatory, will speak on "Recent Unrest at Mount Spurr Volcano, Alaska.

AGS December 1st Luncheon: Rebecca Latimer, Chevron Energy Technology Company, will speak on "Uses, Abuses,

Coast Geological Society  
www.coastgeologicalsociety.org

P. O. Box 3055  
Ventura, CA 93006

Contact: Shaun Simon  
805.495.2197



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. For reservations, contact **Dave Brown** at 805.653.7975 or make reservations online at [www.coastgeologicalsociety.org](http://www.coastgeologicalsociety.org). Reservations should be made by 4:00 p.m. on Friday before the meeting.

### 2005 - 2006 Officers

President:	Shaun Simon	805.495.2197	president@coastgeologicalsociety.org
Vice President:	Greg Millikan	805.766.2040	vpresident@coastgeologicalsociety.org
Treasurer:	John Minch	805.682.4711 x137	treasurer@coastgeologicalsociety.org
Secretary:	John Harris	805.407.7664	harris@numericssolutions.com

CGS November 15th Meeting: Dr. Albert Haldemann, Mars Exploration Rover Deputy Project Scientist, Jet Propulsion Laboratory, will speak on "The Science of Spirit and Opportunity".

## News from our Member Societies

Los Angeles Basin Geological Society  
www.labgs.org

515 So. Flower Street, Ste 4800  
Los Angeles, CA 90071

Contact: Jon Kuespert  
213.225.5900 x224



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 cost is \$20 (with reservations), \$25 (without reservations), or \$5 (students). Reservations can be made online at [www.labgs.org](http://www.labgs.org) or by contacting **Ivan Aburto** at [iaburto@breitburn.com](mailto:iaburto@breitburn.com) or 213-225-5900 ext. 234. Reservations should be made by Tuesday before the meeting.

### 2005 - 2006 Officers

President:	Jon Kuespert	BreitBurn Energy, LP
Vice President / Program Chair:	Dick Brown	Consultant US Geologic Services
Treasurer:	Steve Zigan	Environmental Resolutions, Inc
Secretary:	Ivan Aburto	BreitBurn Energy, LP

Speaker TBA.

Northern California Geological Society  
www.ncgeol Soc.org

9 Bramblewood Court  
Danville, CA 94506-1130

Contact: David Bero  
[dbsquare@earthlink.net](mailto:dbsquare@earthlink.net)



Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).

### 2005 - 2006 Officers

President:	David Bero	Scholarship:	Phil Garbutt
President-Elect:	Bill Perkins	K-12 Programs:	John Stockwell
Treasurer:	Phil Reed	Membership:	Barb Matz
Program Chair:	Randy Kirby	Newsletter & Website Editor:	Mark Detterman

NCGS November 15th: Distinguished Lecturer, AAPG Rebecca Latimer, Chevron Energy Technology Company will speak on "Uses, Abuses, and Examples of Seismic-Derived Acoustic Impedance Data: What Does the Interpreter Need to Know?"

NCGS November 16th Meeting: Dr. Eldridge Moores, University of California, Davis, will speak on "Future of Geologic Education."

Northwest Energy Association  
[dlgellar@msn.com](mailto:dlgellar@msn.com)

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

Contact: James Jackson  
503-771-3887



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

President:	Debra Gellar
Vice President:	Jamie Schick
Secretary:	Shelley Thomas
Treasurer:	Teresa Hagins

## News from our Member Societies

### Sacramento Petroleum Association

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

Contact: Rick Blake  
925-422-9910



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

#### 2005 - 2006 Officers

President:	Rick Blake	<a href="mailto:blake2@lml.gov">blake2@lml.gov</a>
Vice President:	Marc Brennen	
Secretary/Treasurer	Pam Ceccarelli	<a href="mailto:Pam.Ceccarelli@conservation.ca.gov">Pam.Ceccarelli@conservation.ca.gov</a>

Speaker TBA.

### San Joaquin Geological Society [www.sjgs.com](http://www.sjgs.com)

P. O. Box 1056  
Bakersfield, CA 93302

Contact: Rob Negrini  
[rnegrini@csub.edu](mailto:rnegrini@csub.edu)



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 cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Jonathan Lange** at 661-664-7644 or [jlange@chevron.com](mailto:jlange@chevron.com).

#### 2005 - 2006 Officers

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Treasurer:	Alexandra Urrego	<a href="mailto:alexandra_urrego@oxy.com">alexandra_urrego@oxy.com</a>
Past-President	Roy Burlingame	<a href="mailto:rburlingame@bak.rr.com">rburlingame@bak.rr.com</a>

SJGS November 8th Monthly Meeting: Don Guatier on the "Final Findings of the Assessment of Undiscovered Oil and Gas Resources of the SJ Basin."

SJGS December 13th Monthly Meeting: Bruce Laverty on the "Hilton Fee Lease - Belridge Field"

**PACIFIC SECTION  
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

**2005 - 2006 Officers**

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

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

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

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

Advertising inquiries should be directed to the Advertising Coordinator.

**The submission deadline for the January & February 2005 issue is December 12, 2005.**

The newsletter is accessible at [www.psaapg.org](http://www.psaapg.org).

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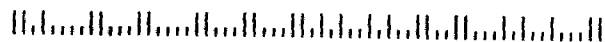
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