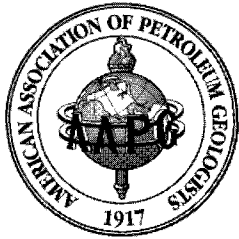


PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



*Pacific Section
American Association of Petroleum Geologists*

Bimonthly Newsletter of the Pacific Section AAPG

January & February • 2002

MESSAGE FROM THE PRESIDENT

Happy New Year! As we all begin a new season of hopes and expectations for higher oil and gas prices, I'm sure many of us have also made resolutions for the new year. Losing weight, getting more exercise, spending more time with the family, and taking that dream vacation to Duluth are among the more popular choices on my list. Regardless of the number or complexity of the items on your personal list, I hope your resolutions become realities in 2002.

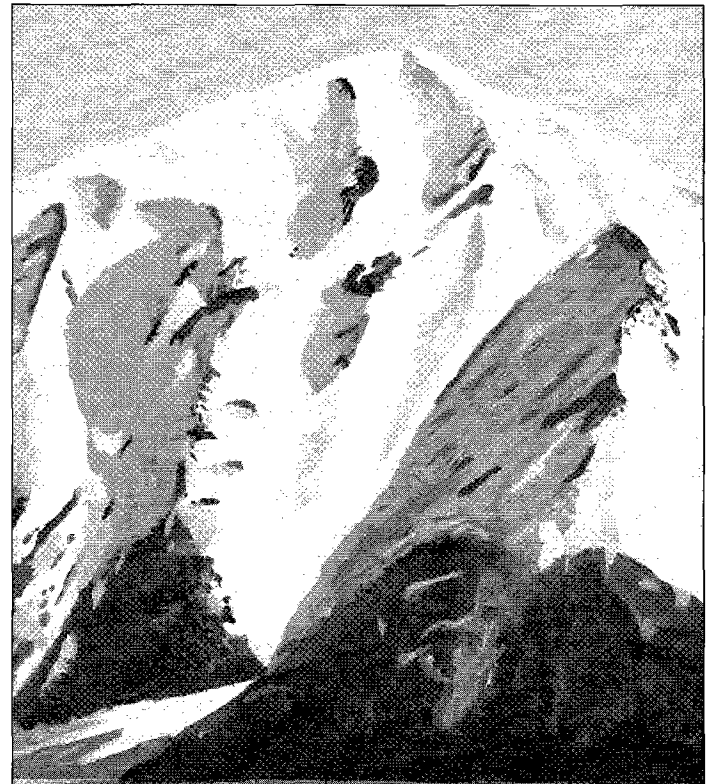
I am pleased to announce that the Pacific Section has agreed to hold our 2003 annual meeting in conjunction with the Western Region of the Society of Petroleum Engineers in the Long Beach area. This will mark the fourth year in a row that the Pacific Section has teamed with another professional society to hold our annual meeting — first in 2000 with the Western Region of SPE in Long Beach, then in 2001 with the Cordilleran Section of the Geological Society of America in Universal City, and in 2002 with the Western Region of SPE in Anchorage. Teaming with other professional societies for these meetings provides unique opportunities to interact on a professional basis with others in the geologic and oil-patch communities. In addition, it just makes sense from an economic point of view to share our meetings with other professional societies. It's a real win-win situation for all concerned.

Planning for our joint 2002 annual meeting in Anchorage is well underway with a great technical program lineup taking shape. A great Honors and Awards luncheon is being planned. In addition, field trips, short courses, and sightseeing opportunities abound in the Anchorage area. Please keep May 18-23, 2002, highlighted on your calendar for a unique educational and cultural experience.

—Allen Britton, President, Pacific Section AAPG

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**Pacific Section
American Association of Petroleum Geologists
Western Region
Society of Petroleum Engineers**

www.aapg-spe-2002.org



Join us in Anchorage!
SHERATON ANCHORAGE HOTEL
May 18-23, 2002



Mackin Conference – JOINT FIELD CONFERENCE WITH THE UTAH GEOLOGICAL ASSOCIATION

The Pacific Section AAPG and the Utah Geological Association held a joint field conference in Cedar City, Utah, September 20-23, 2001. The theme of the conference was *The Geologic Transition, High Plateaus to Great Basin*.

The Conference produced a 430-page Symposium and Field Guide with colored illustrations; it is entitled *THE MACKIN VOLUME* and is dedicated to J. Hoover Mackin, whose mapping and graduate students were responsible for the early understanding of the geology of this complex region. The Volume is available from the publications office of the Utah Geological Survey for \$30 (see <http://geology.utah.gov> for information).

The 120 registered participants were given a choice of four one-day field trips along the western boundary of the Colorado Plateau, all of which were well attended:

- **Linkage and reactivation along the northern Hurricane and Sevier Faults, southwestern Utah** — led by Spence Reber (St. George, UT), Wanda J. Taylor (Dept. of Geoscience, Univ. Nevada, Las Vegas, NV), Meg Stewart (Dept. of Geology and Geography, Vassar College, Poughkeepsie, NY), and Ilsa M. Schiefelbein (Dept. of Geoscience, Univ. Nevada, Las Vegas, NV)
- **Structural overlap of Basin and Range miogeoclinal stratigraphic packages onto the Colorado Plateau cratonic stratigraphic packages in southwestern Utah** — led by M.C. Erskine (El Cerrito, CA)

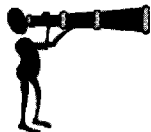
- **Upper Cretaceous and Lower Tertiary stratigraphy, sedimentology, and tectonics along the western margin of the Markagunt Plateau, southwestern Utah** — led by Jeffery G. Eaton (Dept. of Geosciences, Weber State University, Ogden, UT), W.A. Cobban, P.M. Goldstrand, J.I. Kirkland, Jiri Laurin, R. M. Leckie, and N.E. Tibert

- **Field trip to the Caliente Caldera complex, east-striking transverse zones, and nearby mining districts in Nevada-Utah: Implications for petroleum, ground-water and mineral resources** — led by P.D. Rowley (New Harmony, UT), L.W. Sneec, R.E. Anderson, L.D. Nealey, D.M. Unruh, and D.E. Ferris

One day was devoted to poster sessions and five keynote addresses that addressed all of the Plateau boundaries:

- **Ernie Anderson** — Structures recording synextensional shortening along and near the boundary between the Basin and Range and Colorado Plateau between Salina, Utah and Lake Mead, Nevada
- **Randy Keller** — Lithospheric architecture of the Colorado Plateau and its margins
- **Jim Faulds** — Cenozoic evolution of the abrupt western margin of the Colorado Plateau, northwest Arizona
- **Chuck Chapin** — Geologic history of the eastern margin of the Colorado Plateau
- **Steve Reynolds** — Tectonic evolution of the Arizona Transition Zone

—Mel Erskine, Editor/Pogram Chair, Mackin Conference



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

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

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

Cell (661) 747-0337
Work (661) 325-3987
Fax/Home (661) 832-5229

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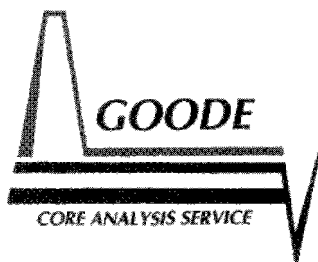
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Position Available — Geologic Map Editor

The **Dibblee Geological Foundation** has an immediate need for a contract geologic map editor. The contractor should be a skilled field geologist, have digital cartography experience, large offset printing press management skills, and artistic abilities. The principal work place will be Santa Barbara, California. The mission of the Thomas Wilson Dibblee, Jr. Geological Foundation, a small non-profit organization, is to prepare, edit, publish, and make available to the public all of the geologic mapping done by Thomas Wilson Dibblee, Jr. Some 75 maps have been published with several hundred remaining.

The contract duties will include editing, field checking, digital transfer from the field sheets to a mapping program, cartographic projection transformations, overlay onto USGS topographic base, legend and cross-section construction, transfer of digital map to the printer, printing supervision, and print editing. The contractor will also participate in promotional and fundraising activities consisting of attendance at professional society meetings, field trip organization, and meeting with potential donors.

A strong working knowledge of California geology is desired, and a California Drivers license is required.

Interested contractors should send a letter of interest and resumé to:

DIBBLEE GEOLOGICAL FOUNDATION
P.O. Box 2309
CAMARILLO, CA 93011

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NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: *Gerry Vankooten*
907-564-5391



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$16 (with reservations) or \$20 (without reservations). The next meetings are scheduled for January 17 and February 21 (see Schedule of Events). For reservations, contact 907-263-4232; reservations should be made by noon on Monday before the meeting.

Coast Geological Society

www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: *Bob Orlando*
805-656-4677



Dinner meetings are usually held on the third Tuesday of the month (except July and August) at the American Legion Hall (83 S. Palm 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 \$12 (with reservation), \$17 (without reservation), or \$7 (students and K-12 teachers); the talk is free. The next meetings are scheduled for January 15 and February 19 (see Schedule of Events). For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.



CGS announces its 2002 competition for Earth Science Teacher of the Year, for which it will award \$500 to a local K-12 teacher in Spring 2002. The winner will also be eligible for the Pacific Section AAPG 2002 Teacher of the Year Award (see page 10). Applications for the CGS competition must be submitted by February 1, 2002. For details and applications, contact **Joan Barminski** at 805-389-7707 or joan.barminski@mms.gov.



CGS sends its members monthly e-mail notices about CGS news and events, and wants to expand its mailing list to include others (nonmembers) interested in CGS. If you want to be included on the CGS e-mail list, contact **Scott Simmons** at coastgeo@pacbell.net.

Los Angeles Basin Geological Society

c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: *Dalton Lockman*
323-298-2242



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meeting are scheduled for January 24 and February 28 (see Schedule of Events). The cost is \$17 or \$6 (students). For information or reservations, contact **Mike Mills** at 714- 220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: *Dan Day*
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meeting is scheduled for January 30 (see Schedule of Events). 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).



AAPG Distinguished Lecturer **William Zempolich** will speak at an NCGS meeting at Chevron Park in San Ramon on January 14 (see Schedule of Events). For information, contact **Dan Day** at 925-294-7530.

NCGS News Continues...

NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

...NCGS News Continued



Gary Greene of California State University Moss Landing Marine Laboratory will lead an NCGS field trip tour of the new Moss Landing Marine Laboratory facility and the Monterey Bay Aquarium Research Institute on January 26. The morning excursion will be followed by a trip to Point Lobos in the afternoon (weather permitting). For information, contact NCGS field trip coordinator **Jean Moran** at jeanm@stetsonengineers.com.



NCGS continues its 2002 competition for Earth Science Teacher of the Year, for which it will award \$500 to a local K-12 teacher in Spring 2002. The winner will also be eligible for the Pacific Section AAPG 2002 Teacher of the Year Award (see page 10). Applications for the NCGS competition must be submitted by February 15, 2002. For details and applications, contact **Randy Kirby** at 925-254-2990 or rkirby.geosci@usa.net.

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: **Jack Meyer**
503-226-4211 ext. 4683



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 S.W. Salmon Street) in Portland. The next meetings are scheduled for January 11 and February 8 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



NWEA members **Bob Deacon**, **George Sharp**, and **Jack Meyer** are co-chairing a NWEA/PS-AAPG session at the 2002 Cordilleran Section meeting of the Geological Society of America, which will be held May 13-15 at Oregon State University in Corvallis. The session is entitled "Unraveling the Tertiary stratigraphy and structure of the Pacific Northwest and its implications to hydrocarbon occurrence and underground gas storage." Papers are needed for the session and abstracts should be submitted by February 2. For information, contact **Jack Meyer** at 503-226-4211 ext. 4683.

Sacramento Petroleum Association

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

Contact: **Jack Smith**
916-322-1110



Luncheon meetings are usually held on the third or fourth Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The next meetings are scheduled for January 16 and February 20 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Jack Smith** at 916-322-1110.



SPA, which celebrates its 50th anniversary in 2002, needs candidates for new officers; the new term begins in January. If you are interested or want to nominate someone, contact **Pam Ceccarelli** at 916-322-1097.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: **Allen Waggoner**
661-326-1112



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for January 8 and February 12 (see Schedule of Events). The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Mike Richey** at 661-392-2278.



SJGS is organizing a Spring field trip to the U.S. Borax open-pit mine in Boron, California. The trip is tentatively scheduled for March 22. For information, contact **Allen Waggoner** at 661-326-1112.

SCHEDULE OF EVENTS

PACIFIC SECTION AAPG & AFFILIATED GEOLOGICAL SOCIETIES JANUARY & FEBRUARY 2002

January 8 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speaker: TBA

January 11 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR

Speaker: TBA (Wilbanks Corp. representative)

Topic: Natural Gas Infrastructure Developments in the West and Canada

January 14 — NCGS Meeting

Location: Chevron Park, San Ramon, CA

Speaker: William Zempolich (ExxonMobil, The Hague, Netherlands; AAPG Distinguished Lecturer)

Title: The Kashagan Discovery: An Example of the Successful Use of a Multidisciplinary Approach in Reducing Geologic Risk

January 15 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speaker: William Zempolich (ExxonMobil, The Hague, Netherlands; AAPG Distinguished Lecturer)

Title: The Kashagan Discovery: An Example of the Successful Use of a Multidisciplinary Approach in Reducing Geologic Risk

January 16 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: TBA

January 17* — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage, AK

Speaker: TBA

January 24 — LABGS Monthly Luncheon Meeting

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

Speaker: Lewis Owen*

Title: Holocene slip rates along the Owens Valley fault, California: Implications for the Recent Evolution of the Eastern California Shear Zone

January 26 — NCGS Field Trip

Location: Monterey Bay Aquarium Research Institute and Moss Landing Marine Laboratory

Leader: Gary Greene (California State University Moss Landing Marine Laboratory)

January 30 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA

Speaker: Roger Ashley (USGS Menlo Park)

Title: Lode Gold Deposits of the Sierra Nevada and Their Environmental Impacts

February 8 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR

Speaker: Jim Emme (Anadarko Petroleum)

Topic: Natural Gas Supply for the West and Canada

February 12 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speaker: TBA

February 19 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speakers: Peter Weigand (California State University, Northridge) and Imelda Cragin (County of Santa Barbara, Department of Public Works)

Topic: Argentina

February 20 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: TBA

February 21 — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage, AK

Speaker: Cathy Busby (University of California, Santa Barbara; AAPG Distinguished Lecturer)

Title: Climatic and Tectonic Controls on Sedimentation and Volcanism in the Jurassic Arc-Backarc Region of the Cordilleran U.S.

February 28 — LABGS Monthly Luncheon Meeting

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

Speaker: Cathy Busby (University of California, Santa Barbara; AAPG Distinguished Lecturer)

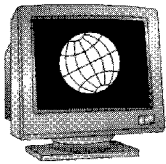
Title: Tectonics of Strike-slip Interarc Basins



UPCOMING EVENTS

- March 8 • NWEA Monthly Luncheon Meeting
- March 10-13 • National AAPG Meeting (Houston, TX)
- March 12 • SJGS Monthly Dinner Meeting
- March 17 • SPA Monthly Luncheon Meeting
- March 19 • CGS Monthly Dinner Meeting
- March 21* • AGS Monthly Luncheon Meeting
- March 22* • SJGS Field Trip (Boron, CA)
- March 27* • NCGS Monthly Meeting
- March 28 • LABGS Monthly Luncheon Meeting
- April 2 • SJGS Monthly Dinner Meeting
- April 12 • NWEA Monthly Luncheon Meeting
- April 16 • CGS Monthly Dinner Meeting
- April 17 • SPA Monthly Luncheon Meeting
- April 18* • AGS Monthly Luncheon Meeting
- April 18* • LABGS Monthly Luncheon Meeting
- April 24* • NCGS Monthly Meeting
- May 18-23 • Pacific Section Convention (Anchorage, AK)

* Tentative



WINTER 2002 COURSE OFFERINGS AT THE CSUB GEOTECHNOLOGY CENTER!

PC-Based Seismic Manipulation and Interpretation

This introductory course uses Geographix SeisVision software. Topics include: Seismic interpretation in 2D and 3D, construction of time slices, flattening on a horizon, generating an attribute surface, loading 2D, 3D, and well data, and creating and interpreting synthetic seismograms. Course participants should be familiar with basic geologic concepts (primarily structure and stratigraphy) and be comfortable working with MS Windows operating system. [2 credits*]

Instructor: Jan Gillespie, CSUB

Cost: \$350

Course Meetings: Tuesday & Thursday nights, 6-9 p.m.
February 5, 7, 12, 14, 19, 21, 26, 28

Registration Deadline: January 25

Maximum Enrollment: 12

Three Dimensional Geologic Reservoir Characterization Using EarthVision and Geoquest

This course will combine the use of EarthVision and FloGrid for creating 3D reservoir models. The emphasis of the class is to develop an understanding of the tools and methods of reservoir characterization necessary to create simulation flow models in a short time frame, while retaining the geologic influences. The course is designed for any earth scientist with some computer mapping skills who is responsible for providing geologic data for the purpose of reservoir simulation. The course will cover basic fault modeling, horizon stacking, property modeling (NTG, PHIE, PERMX), corner point flow model construction, and property up-scale. [2 credits*]

Instructor: Stephen Smart, Subsurface Modeling Concepts, Inc.

Cost: \$350

Course Meetings: Monday-Thursday nights, 6-9 p.m.
March 4-7 & March 11-14

Registration Deadline: February 18

Maximum Enrollment: 10

Registration:

Without University Credit

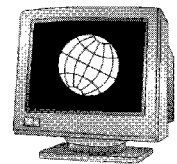
Send contact information (phone number and/ or e-mail address) and a check (payable to CSUB Foundation-GTTC) for the entire course fee to:

Dr. Jan Gillespie
Department of Geology
California State University
9001 Stockdale Highway
Bakersfield, CA 93311

*With University Credit

Each course counts as 2 credits of Geology 577 (Instruction in Geotechnology). Students must apply to the University and enroll in Geology 577 in order to receive credit.

For more information about the local and cost-effective training offered at the GeoTechnology Training Center (GTTC) at California State University, Bakersfield, visit the website at www.cs.csubak.edu/Geology or contact Jan Gillespie at 661-664-3040 or jan@cs.csubak.edu.

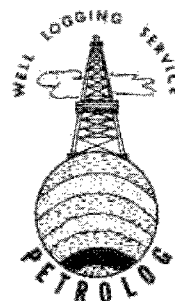


Mark Pahler
Operations Coring Coordinator



INTEQ (Formerly Christensen Coring)

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New & Reinstated Members

Robert A. Ballog		Thousand Oaks, CA
Francis Barker		San Marino, CA
Karen E. Blake	<i>Berry Petroleum Co.</i>	Bakersfield, CA
Peggy S. Brown	<i>Earth Tech</i>	Long Beach, CA
Paul H. Buika	<i>Samedan Oil Corp.</i>	Long Beach, CA
Barry W. Dalkey	<i>Signal Hill Petroleum</i>	Redondo Beach, CA
Anthony E. de la Sota	<i>City of Burbank</i>	Duarte, CA
Amanda Diulio	<i>Chevron USA</i>	Bakersfield, CA
Terry W. Donze		Wheatridge, CO
Carisa Endrizzi-Davis	<i>Pacific Soils Eng., Inc.</i>	Irvine, CA
Mark R. Fahan	<i>Holguin, Fahan & Assoc. Inc.</i>	Ventura, CA
Ben Funderburk	<i>CALPINE</i>	Denver, CO
Larry Geisler		Valley Center, CA
Patrick C. Haley		Menifee Valley, CA
William H. Harz	<i>Santa Barbara City College</i>	Santa Barbara, CA
Gregory J. Holk	<i>California State University</i>	Long Beach, CA
Robert E. Horton		Sonora, CA
Larry Jackson	<i>Signal Hill Petroleum</i>	Pacific Palisades, CA
Andrew J. Killian	<i>Cadco Consulting Services</i>	Thousand Oaks, CA
John Kosztowny	<i>Thrifty Oil Co.</i>	La Crescenta, CA
Roger A. McRae	<i>Texaco</i>	Bodfish, CA
John L. Moran	<i>Carneros Energy</i>	Bakersfield, CA
Michael B. Moscrop		Laguna Hills, CA
Robert C. Orlando	<i>PW Environmental</i>	Santa Paula, CA
Chet E. Paris	<i>BP Exploration</i>	Anchorage, AK
James O. Ponder	<i>Consultant</i>	Bakersfield, CA
Teresa Ramirez	<i>California State University</i>	Long Beach, CA
Kenneth A. Schwarz		Redondo Beach, CA
George C. Sharp	<i>Weyerhaeuser Co.</i>	Lakewood, WA
Gerald Smith		Long Beach, CA
Gary Stoney	<i>Stoney-Miller Consultants, Inc.</i>	Mission Viejo, CA
Charles Swift	<i>Geolabs – Westlake Village</i>	Thousand Oaks, CA
Janice H. Tomson	<i>Long Beach City College</i>	Long Beach, CA
Edward L. Von Dohlen	<i>Chevron Production</i>	Bakersfield, CA
Steve Zigan	<i>Environmental Resolutions, Inc.</i>	Mission Viejo, CA

Membership Chairman's note: This list includes individuals who joined or reinstated their membership in the Pacific Section AAPG between August and December 2001. Many of them joined as a result of an effort by LABGS to encourage their members to join the Pacific Section AAPG.

In Memory

Memorial articles and photographs may be sent to the editor by family or friends of Pacific Section AAPG members. Materials are subject to revision to accommodate newsletter space constraints and will be returned upon request.

D. E. Ritzius – September 10, 2001 – Oceanside, CA



AAPG Student Membership and Student Chapter Program

What do we offer?

Student Membership: Full-time graduate and undergraduate students in geology and full-time students in related fields generally associated with geology can join AAPG, an international organization, for **\$10** (North America) or **\$20** (outside North America). For this amount the student will receive:

- Discounts on short courses (\$50 AAPG Student Members or \$25 AAPG Student Chapter Members) – plus reserved slots
- The AAPG *Bulletin* (monthly journal)
- The AAPG *Explorer* (monthly news magazine)
- Discounts on books and other publications
- The opportunity to build professional relationships at home and abroad
- Access to the Visiting Geologists Program
- Access to the Distinguished Lecture Program
- The opportunity to participate in Student Expos (Job Fairs)
- Access to student Internet job-search database
- The opportunity to apply for Grants-in-Aid, funded and administered by the AAPG Foundation

The **Student Chapter Program** offers additional benefits to AAPG Student Members and their geology departments:

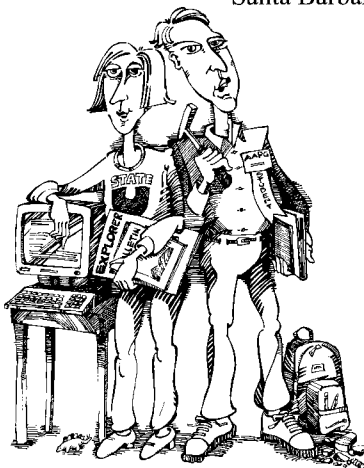
- Membership Rebate
- Travel Rebate
- L. Austin Weeks Undergraduate Grant
- AAPG Student Chapter Book Gift
- The periodic newsletter: *Student Outlook*
- The opportunity to enhance leadership skills through holding active offices within the university chapter
- The opportunity to work at the General Store during the annual convention to raise money for their chapter
- The opportunity to participate in the annual Student Chapter Paper/Poster Sessions, cash awards
- Interaction with professionals and participation in local affiliated geological society activities
- Professional affiliation on resumé

For details on the benefits listed above, please go to: <http://www.aapg.org/member/student>

The AAPG Student Chapter Program consists of 91 Student Chapters across the world! The Pacific Section has 7 chapters:

California State University at Bakersfield
California State University at Fresno
San Diego State University
Santa Barbara City College

Sonoma State University
Stanford University
University of California at Santa Barbara



To participate as an AAPG Student Chapter, the group would need to (1) obtain a sponsor who is a member of AAPG, preferably a professor in the department, and (2) have at least 9 student members. In order to form a chapter, all chapter members must be current AAPG members. If your group is interested in affiliation it will be necessary to submit a list of all chapter members, the officers, the faculty adviser, and the name of your chapter. It is also recommended to have an AAPG-affiliated Society sponsor.

For additional information, please contact:

Kerri Donathan
AAPG Student Affairs Coordinator
800-364-2274 (US only)
donathan@aapg.org



**Pacific Section AAPG Award for
TEACHER OF THE YEAR**
EXCELLENCE IN THE TEACHING OF NATURAL RESOURCES IN THE EARTH SCIENCES



As part of our mission to support youth education activities, the Pacific Section AAPG will present our annual award for *Excellence in the Teaching of Natural Resources in the Earth Sciences* in April of 2002. The Pacific Section award winner will receive \$500 to use in their school science program or to attend science conferences or training seminars. In addition, reasonable expenses will be covered to allow the winner to attend the year 2002 Pacific Section Convention in Anchorage, Alaska.

This program is directly associated with local *Teacher of the Year* competitions sponsored by each of the affiliated Pacific Section AAPG societies. Winning teachers from the local competitions are nominated for the Pacific Section AAPG award. The Pacific Section winner in turn will automatically be entered in the year 2002 American Association of Petroleum Geologists national award of the same name. In an effort to promote full participation among member societies, the Pacific Section AAPG is donating \$250 to each participating society for their local *Teacher of the Year* competition awards.

We urge all Pacific Section members to recognize and promote deserving K-12 teachers for this award. Details about the *Teacher of the Year* competition in the affiliated societies can be obtained by contacting the following coordinators:

<u>Local Society</u>	<u>Coordinator</u>	<u>E-mail Address</u>
Alaska Geological Society	Sue Karl	skarl@usgs.gov
Coast Geological Society	Joan Barminski	joan.barminski@mms.gov
Los Angeles Basin Geological Society	Karla Tucker	ktkr2@aol.com
Northern California Geological Society	Randy Kirby	rkirby.geosci@usa.net
Northwest Energy Association	Bob Burnham	rhb@exchange.gasco.com
Sacramento Petroleum Association	Jack Smith	jsmith@consvr.ca.gov
San Joaquin Geological Society	Christine Luther	cluther@wziinc.com

Winning nominees from each local society must be submitted to the Pacific Section AAPG no later than March 1, 2002. If you have questions or need further information, please contact Terry Thompson by e-mail at thomptw2@texaco.com.

Requirements:

1. A minimum of three full years of full-time teaching experience at any level K-12
2. Teaching at least *one course per year* on natural resources. Natural resources are defined as Earth materials used by civilizations past and present such as:
 - Inorganic substances found in the Earth such as water, mineral ores, building stone, aggregate, rocks, and sediments
 - Organic materials such as oil, gas, coal, and soil
3. Teaching should include scientific study of these resources; for example:
 - Their origin, discovery, extraction, and/or historical and present uses
 - It may also include the preservation of the environment, reclamation, and the conservation of resources
4. Entries will include:
 - A brief description of the teacher's philosophy of the teaching of natural resources
 - A description of the unit with outline
 - Complete resumé
 - Two letters of recommendation: one from a colleague and one from an administrator
5. The unit will be evaluated on:
 - Depth and breadth of concepts (resource origin, discovery, processing, usage, and reclamation)
 - Creativity of presentation
 - Balanced treatment of information; societal needs vs. environmental issues

BITS & PIECES

PTTC Workshops

Upcoming workshops of the Petroleum Technology Transfer Council West Coast Resource Center will address 3-D seismic and waste injection. The workshops will be held in Santa Clarita. For information, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

January 17 • 3-D Seismic for California Oil Fields
February 21 • Waste Injection in Oil Field Operations

BLM Field Trips

The Bureau of Land Management and Buena Vista Museum of Natural History offer a program of earth science field trips to points of ecologic, geologic, paleontologic, and historic interest throughout central California. The trips are designed for persons of high school age and older, and it is not necessary to have a technical background to attend or benefit from the trips. For information about the trips and registration, visit www.ca.blm.gov/bakersfield/geologytrips.html or contact **Gregg Wilkerson** at 661-391-6177.

February 15-18 • Death Valley
April 5-7 • Mother Lode (Jamestown and vicinity)
June 1 • Point Sal
October 4-6 • Panoche and Tumey Hills

★ ★ ★ ★ ★
New Pacific Section AAPG Publication

**GEOCHEMISTRY OF CALIFORNIA'S
MAIN HYDROCARBON-PRODUCING BASINS
CD-ROM Series 1**

Cost: \$39.00 + \$5.00 shipping and handling

FOR MORE INFORMATION OR TO ORDER, PLEASE WRITE TO:

PSAAPG Publications
P.O. Box 1072
Bakersfield, CA 93302
OR CONTACT:

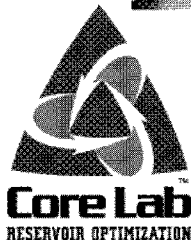
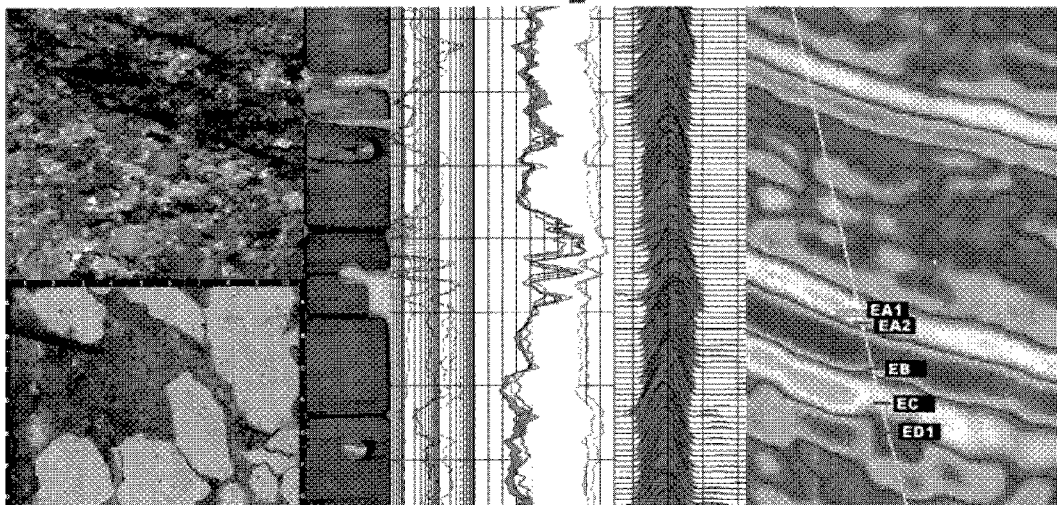
Larry Knauer
knauelc@chevrontexaco.com, 661-392-2471

Newsletter Online!

The *Pacific Petroleum Geologist Newsletter* is posted on the Pacific Section AAPG website at www.psaapg.org to provide easy and immediate access to PS AAPG news and information. PS AAPG members may access the digital newsletter by using a password, and nonmembers may preview an abbreviated version to elicit interest and new memberships.

January/February password: **derrick**
March/April password: **pipeline**

Reservoir Optimization



Core Laboratories, Inc.
3430 Unicorn Road
Bakersfield, CA 93308
(661) 392-8600
(661) 392-0824
E-mail: corebak@ix.netcom.com

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

**Deadline for the
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February 10, 2002**

Visit the Pacific Section AAPG
website:
www.psaapg.org

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805-389-7721

Communications regarding advertising should be directed to:

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knauelc@chevrontexaco.com
661-392-2471

Change of address, subscription, and membership inquiries should be directed to:

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

To order publications of the Pacific Section AAPG, write to:

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

**PACIFIC SECTION
American Association of Petroleum Geologists**

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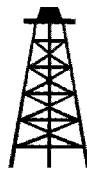
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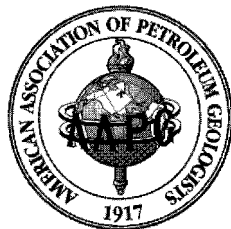


Pacific Petroleum Geologist Newsletter
Pacific Section AAPG
P.O. Box 1072
Bakersfield, CA 93302



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PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



*Pacific Section
American Association of Petroleum Geologists*

Bimonthly Newsletter of the Pacific Section AAPG

March & April • 2002

MESSAGE FROM THE PRESIDENT

Ah, spring! The trees are ready to bud, the weather is warming every day, and it won't be long until one can comfortably get in a golf game in the evening before sunset. Or mow the lawn. Or tackle that patch of weeds that is calling your name. It's times like these that a young (or old for that matter) geologist's fancy turns to, you guessed it... our annual meeting!!!

As I write this, the finishing touches are being applied to our upcoming Pacific Section AAPG Annual Meeting in Anchorage, Alaska, May 20-22, 2002. I was able to sit in on a convention planning meeting in early February, and I can report that things are shaping up very nicely indeed. Our online registration is up and operating and can be accessed through our website at www.psaapg.org. We strongly encourage you to register via the web and to register early, as we expect many of the field trips to sell out rapidly.

David Hite (Pacific Section AAPG General Chairman) and Barbara Holt (Western Region SPE General Chairwoman) have done an outstanding job in getting this meeting planned and organized with the help of a talented and dedicated group of volunteers. With a theme of *Energy Frontiers: A 2002 Perspective*, the meeting will focus on the nature of the oil and gas business in Alaska and the Arctic regions, with a number of papers and posters from the lower 48 as well. A multitude of oral and poster sessions, workshops, short courses, exhibitors, and field trips guarantee that a stimulating meeting is in store for all who attend. The weather should be great and the scenery spectacular, so plan on spending a few extra days in this beautiful part of our world.

Included in this issue of the newsletter are the Pacific Section AAPG candidates for offices for the year 2002-2003. These folks have graciously offered to be of service to our society. Please take a moment and review their biographies, and when your ballot arrives in the mail please take the time to vote. Remember, vote early and vote often; well, maybe not often...

—Allen Britton, President, Pacific Section AAPG



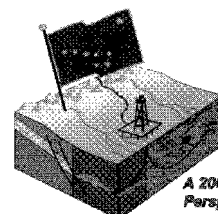
Look for this symbol throughout this newsletter for more information about the Joint AAPG/SPE Conference in Anchorage!



Register Now!



Joint Conference PACIFIC SECTION AAPG WESTERN REGION SPE



A 2002
Perspective
ENERGY FRONTIERS

MAY 20-22, 2002
Anchorage, Alaska

Information & Online Registration:

www.aapg-spe-2002.org

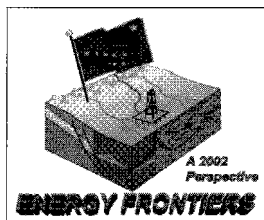


Join us in Anchorage!



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INVITATION FROM THE GENERAL CHAIRPERSONS

Dear Colleagues:

You and your fellow geologists, engineers, and other oilfield professionals are cordially invited to the May 20-22, 2002, joint conference of the Pacific Section AAPG and the Western Regional SPE in Anchorage, Alaska. This meeting marks the second joint meeting of these two organizations. Our hope is that this new tradition, which was first conceived in Long Beach, California, in 2000, will endure and prosper in the new and increasingly challenging environment of the 21st Century.

"Energy Frontiers: A 2002 Perspective" was selected as the convention theme as it reflects the nature of business in Alaska and our Arctic regions. The Arctic regions hold much promise for continued discovery. Developing both the large-scale oil reserves of the Arctic and the heretofore untapped gas reserves of Prudhoe Bay and the Mackenzie Delta will help foster increasing energy independence for North America. This perspective provides a forum from which the future and security of domestic energy supplies and the current technology and innovations can be viewed and analyzed.

The conference technical sessions focus on many aspects of oil and gas exploration, development, and production within the Arctic environment. The oral and poster sessions are supplemented with field trips, workshops, and short courses that are presented both pre- and post-conference, on May 18-19 and May 23. Other activities include an excellent suite of exhibits, icebreakers, the all-conference luncheon, and various other social functions for your enlightenment and enjoyment.

Late May in the Anchorage Bowl can provide some of the most enjoyable weather Alaska has to offer. We urge you to spend a little extra time and partake of some of the unique cultural and recreational opportunities that the area provides. The Anchorage Sheraton Hotel is located within a few short blocks of most of Anchorage's distinctive attractions, as well as valuable visitor information. **Early reservations are recommended in order to guarantee room availability.**

The organizing committee and our numerous volunteers have worked diligently to provide you with the best meeting possible. Sincere thanks are due to them and their employers for the time, effort, and support provided to assure that this meeting is a success. Come and join us to celebrate this truly Alaskan wedding of engineering and geology.

Barbara Holt
SPE General Chairwoman
Western Regional Meeting

David Hite
AAPG General Chairman
Pacific Section Convention





ENERGY FRONTIERS:

A 2002 PERSPECTIVE

Joint Conference
PACIFIC SECTION AAPG
WESTERN REGION SPE

MAY 20-22, 2002
Sheraton Anchorage Hotel
Anchorage, Alaska



MAY 2002



SAT 18	SUN 19	MON 20	TUE 21	WED 22	THU 23	FRI 24
Field Trip	Field Trip	Technical Program	Technical Program	Technical Program		
Short Courses	Short Courses		Keynote Luncheon		Field Trips	Field Trip
	Exhibits	Exhibits	Exhibits	Exhibits	Short Course	
	Ice Breaker	Ice Breaker				

Register online at www.aapg-spe-2002.org.

TECHNICAL PROGRAM — May 20, 21, 22

AAPG Oral Sessions

- Geology of the Brooks Range and Southern Colville Basin, Alaska
- New Development Opportunities and Integrating Technologies
- Geophysical Techniques in Arctic Regions
- Shifting Paradigms and Application of New Technologies in Mature Development Areas
- Triassic Paleogeography of Alaska: Implications for Source and Reservoir Rock Deposition
- North Slope Petroleum Systems
- Tectonics of the Circum-Arctic
- ANWR Coastal Plain—Geology and Petroleum Potential
- Beyond the Petroleum Window—Mineral Resources of the Pacific Rim
- Unconventional and Shallow Gas Resources of Alaska
- Resource Development Outside the North Slope, Alaska
- NPRA: The Emerging Frontier

SPE Oral Sessions

- Coiled Tubing Drilling and Applications
- Completion Innovations
- Formation Evaluation
- Fracture Stimulation
- Improved Oil Recovery & Reservoir Management
- Health, Safety, & Environment
- New Development Case Histories
- Innovations & Novel Applications
- Production Optimization & Artificial Lift
- Reservoir Characterization & Reservoir Mechanisms
- Rotary Drilling Technology and Applications
- Surface Facility Applications
- GEMS (Short Topics)

AAPG/SPE Symposium

- North Slope Gas Resources

AAPG Poster Sessions

- Triassic Paleogeography of Alaska: Implications for Source and Reservoir Rock Deposition
- Unconventional and Shallow Gas Resources of Alaska
- ANWR Coastal Plain—Geology and Petroleum Potential
- Geology of the Brooks Range and Southern Colville Basin, Alaska
- Resource Development Outside the North Slope, Alaska
- Shifting Paradigms and Application of New Technologies in Mature Development Areas
- Beyond the Petroleum Window—Mineral Resources of the Pacific Rim

SPE Poster Session

- Focus on Petroleum Engineering

AAPG/SPE Poster Sessions

- NPRA
- Tectonics of the Circum-Arctic

FIELD TRIPS — May 18, 19, 23, 24

- 1 Prudhoe Bay Field Tour
- 2 Rocks, Fire, Ice, and the Big Quake: Geology of the Anchorage Bowl
- 3 Alaska Railroad Wildlife and Geology Train/Kenai Fjords Cruise Adventure
- 4 The Tertiary Nenana Basin, Healy, Alaska
- 5 Geology and Hydrocarbon Systems of the Cook Inlet Basin, Alaska

SHORT COURSES — May 18, 19, 21, 23

- 1 Sequence Stratigraphy and Sedimentology of Triassic-Cretaceous Strata, Alaska North Slope Core Workshop
- 2 Sequence Stratigraphy and Sedimentology of Triassic-Cretaceous Strata, Alaska North Slope Core Workshop
- 3 Formation Damage in Vertical and Horizontal Injection & Production Wells—What is it and Why Should I Care?
- 4 Applied Well Testing for Oil and Gas Professionals
- 5 Applications of Ichology to Petroleum Reservoirs, Exploration, and Sequence Stratigraphy
- 6 OSHA 300 Workshop
- 7 Natural Gas Hydrates



ANCHORAGE AIR TRAVEL

A 10% discount off the lowest fare has been arranged through Alaska Airlines for travel to the conference.

To receive this special travel rate, call the group travel reservation number at (800) 445-4435 and mention Code Number CMR5503.



ANCHORAGE ATTRACTIONS

Anchorage is a great place to visit in May. Within the municipality of Anchorage are many unique tourist attractions—the Tony Knowles Coastal Trail with a spectacular panorama of the Cook Inlet and Mt. McKinley, Earthquake Park, the Alaska Zoo, the Alaska Native Heritage Center, the Eagle River Nature Center, and Chugach State Park. Plan your trip to sightsee around Anchorage for a few days or to take advantage of some fishing trips on the Kenai Peninsula, a wildlife cruise out of Seward or Whittier, or a trip to Portage or Exit Glacier. Plan your trip early for best availability on room accommodations and air travel.



SHERATON ANCHORAGE HOTEL

401 East Sixth Avenue
Anchorage, Alaska 99501
(800) 478-8700 reservations
(907) 276-8700
www.sheratonanchoragehotel.com

The Sheraton Anchorage Hotel will serve as the conference headquarters. All technical sessions, exhibits, and most short courses will be held at the hotel. In addition, most field trips will depart and return from this location. The hotel is located in downtown Anchorage just 15 minutes from the Ted Stevens Anchorage International Airport. Its central location provides easy access to Anchorage's busiest shopping centers, restaurants, and the most popular events. A block of rooms at the Sheraton Anchorage Hotel has been arranged for the conference. The daily room rates for the conference are:

Standard: \$160 Club Level: \$180 Each additional person: \$10

To receive the conference room rate when making a reservation, indicate that you will be attending the conference. Reservations must be made by Friday, April 26, 2002, to guarantee the conference room rate.



CONFERENCE REGISTRATION

Individuals may register for the conference in advance (at discounted fees) or on site. Online registration via www.aapg-spe-2002.org is the preferred registration method. Advance Registration must be completed online by April 18, 2002. Mailed forms must be postmarked or faxed to the advance registration site (Anchorage, Alaska) by April 18, 2002, and must be accompanied by full payment (check or credit card). Registration will not be processed without full payment. Requests for refunds of registration, short courses, or field trip fees must be received in writing at the advance registration site by April 18, 2002.



IMPORTANT DEADLINES

- April 1 Prudhoe Bay Field Tour Sign-Up
- April 5 Kenai Fjords Field Trip Sign-Up
- April 18 Field Trip Sign-Up (all other trips)
- April 18 Advance Registration
- April 18 Short Course Sign-Up
- April 26 Sheraton Anchorage Hotel Reservations

NWEA and AEG to Meet with GSA in Corvallis

The Northwest Energy Association will meet with the Cordilleran Section of the Geological Society of America at Oregon State University in Corvallis May 13-15, 2002. This immediately precedes the Pacific Section meeting in Anchorage May 18-23. The NWEA symposium will be "Unraveling the Tertiary stratigraphy and structure of the Pacific Northwest and its implications for hydrocarbon occurrence and underground gas storage," in honor of **Alan and Wendy Niem**. Chairing the session will be **Jack Meyer, George Sharp, and Bob Deacon**.

Also featured is a poster session, *Architecture of Cascadia: a synthesis of new geologic and geophysical mapping along the convergent margin*, organized by **Ray Wells, Tim Walsh, and Ian Madin**. A session on gas hydrates and methane seeps in the northeast Pacific margin will be chaired by **Marta Torres and Joel Johnson**. This will be followed by a discussion of the forthcoming Ocean Drilling Project cruise to Hydrate Ridge off central Oregon, led by co-chief scientist **Anne Trehu**.

Other sessions of interest to the petroleum geology community are *Constraints on Cretaceous paleogeography of the western Cordilleran margin*, chaired by **Bernie Housen and Brian Mahoney**, and the Third Decadal Symposium on the Geology of Washington, chaired by **Eric Cheney and Josh Logan**.

The Oregon and Washington chapters of the Association of Engineering Geologists will also meet in Corvallis. Sessions of interest include: geology and hydrology of the Willamette Basin (**Jim O'Connor, Marshall Gannett**), hazards and risks from Cascade volcanoes (**Britt Hill, Ed Taylor**), debris flows (**Dick Iverson, Keith Mills, Jon Hofmeister**), case histories of landslides (**Scott Burns, Charlie Hammond**), coastal paleodune landscapes (**Curt Peterson, Chuck Rosenfeld**), use of hydrogeological and biological principles and GIS in environmental cleanup (**John Kuiper**), and surface effects of the Nisqually, Washington, earthquake of February 28, 2001 (**Tim Walsh, Kathy Troost**).

AEG-related field trips include dunes of the central Oregon coast, landslides at Kelso, Washington, and Portland, Oregon, and landslides of the Columbia River Gorge. Transportation will be variously by van, raft, jet boat, and dune buggy!

For details, consult the website at terra.geo.orst.edu/users/gsa2002 or contact **Jack Meyer** at h2m@nwnatural.com (NWEA), **Scott Burns** at burnss@pdx.edu (AEG), or **Bob Yeats** at yeatsr@geo.orst.edu.

—Bob Yeats, Oregon State University

Wanted: Experienced Geologists and Geophysicists

With times again changing in our industry, having an edge often means the difference between success and failure. Now is the time to consider if you have a competitive advantage and, if not, ask yourself "how do I get one?" While licensure with the State of California establishes capability and experience, building professional credibility and reputation is something else entirely. Membership in the AAPG Division of Professional Affairs will be a giant step toward gaining the reputation and recognition necessary to meet the tough standards that companies and investors are seeking.

The DPA was formed as a division of the AAPG in 1965 and speaks out on ethical, technical, and legislative matters. Membership and certification as a Petroleum Geologist or Geophysicist means that you subscribe to a strict code of ethics and, most importantly, that your colleagues attest to your qualifications. Your unique certification number and seal will be recognized throughout the world and will lend credibility to your evaluations.

If you are an active member of the AAPG and have a minimum of eight years of experience (or seven years of experience with a Master's Degree or five years of experience with a Ph.D.), you may qualify to become a certified DPA member. To learn more, visit the AAPG homepage at www.aapg.org and follow the Division link to the section on the DPA. For more information, contact **Jim Hill** of CalTerra Energy, LLC at jamesh@silcom.com, 805-484-3613 (voice), or 805-484-9649 (fax).

—Jim Hill, Pacific Section Representative, AAPG DPA

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

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Email: BuzzBake@aol.com
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WELL INFORMATION AND INSTRUMENTATION

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WEST COAST DIVISION MANAGER
CALIFORNIA REGISTERED GEOLOGIST #3907

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661-635-1452 DIRECT
661-328-1623 FAX
661-838-7978 CELLULAR
lcollins@nabors.com E-MAIL

NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: *Gerry Vankooten*
907-564-5391



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$16 (with reservations) or \$20 (without reservations). The next meetings are scheduled for March 21 and April 18 (see Schedule of Events). For reservations, contact 907-263-4232; reservations should be made by noon on Monday before the meeting.

Coast Geological Society

www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: *Bob Orlando*
805-656-4677



Dinner meetings are usually held on the third Tuesday of the month (except July and August) at the American Legion Hall (83 S. Palm 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 \$12 (with reservation), \$17 (without reservation), or \$7 (students and K-12 teachers); the talk is free. The next meetings are scheduled for March 19 and April 16 (see Schedule of Events). For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.



CGS sends its members monthly e-mail notices about CGS news and events, and wants to expand its mailing list to include others (nonmembers) interested in CGS. If you want to be included on the CGS e-mail list, contact **Scott Simmons** at coastgeo@pacbell.net.

Los Angeles Basin Geological Society

c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: *Dalton Lockman*
323-298-2242



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meetings are scheduled for March 28 and April 18 (see Schedule of Events). The cost is \$17 or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: *Dan Day*
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meetings are scheduled for March 27 and April 24 (see Schedule of Events). 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).

Newsletter Online!

The *Pacific Petroleum Geologist Newsletter* is posted on the Pacific Section AAPG website at www.psaapg.org to provide easy and immediate access to PS-AAPG news and information. PS-AAPG members may access the digital newsletter by using a password, and nonmembers may preview an abbreviated version to elicit interest and new memberships.

March/April password: **pipeline**
May/June password: **casing**



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

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

NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Jack Meyer
503-226-4211 ext. 4683



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 S.W. Salmon Street) in Portland. The next meetings are scheduled for March 8 and April 12 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



NWEA members **Bob Deacon**, **George Sharp**, and **Jack Meyer** are co-chairing a NWEA/PS-AAPG session at the 2002 Cordilleran Section meeting of the Geological Society of America, which will be held May 13-15 at Oregon State University in Corvallis. See page 5 for details.

Sacramento Petroleum Association

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

Contact: Jack Smith
916-322-1110



Luncheon meetings are usually held on the third or fourth Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The cost is \$15. For information or reservations, contact **Jack Smith** at 916-322-1110.



SPA, which celebrates its 50th anniversary in 2002, needs candidates for new officers. If you are interested or want to nominate someone, contact **Pam Ceccarelli** at 916-322-1097.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Allen Waggoner
661-326-1112



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for March 12 and April 1 (see Schedule of Events). The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Mike Richey** at 661-392-2278.



SJGS is organizing a spring field trip to the U.S. Borax open-pit mine in Boron, California. The trip is scheduled for March 22. For information, contact **Allen Waggoner** at 661-326-1112.



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(805)933-0076

SCHEDULE OF EVENTS

PACIFIC SECTION AAPG & AFFILIATED GEOLOGICAL SOCIETIES MARCH & APRIL 2002

March 8 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR

Speaker: TBA

Topic:* Liquefied Natural Gas

March 10-13 — AAPG Annual Meeting

Location: George R. Brown Convention Center, Houston, TX

Theme: Our Heritage: Key to Global Discovery

See www.aapg.org/meetings/houston02 for details.

March 12 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speakers: Susan Bartz (Bartz Technology Corp.) and Gene Fritsche (Prof. Emeritus, California State University, Northridge)

Title: Blast from the Past: Evidence from the K-T Boundary Blanket Ejecta in Belize and Mexico

March 19 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speaker: John Crowell (University of California, Santa Barbara)

Title: Geology of Ridge Basin Region, Southern California

March 21 — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage, AK

Speaker: Peter Haeussler (U.S. Geological Survey)

Title: Life and Death of the Resurrection Plate

March 22 — SJGS Spring Field Trip

Location: U.S. Borax Open-pit Mine, Boron, CA

Contact Allen Waggoner at 661-326-1112 for information.

March 27 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA

Speaker: Donald L. Gautier (U.S. Geological Survey)

Title: The Ghost of Malthus, the Global Greenhouse, and the Perilous Geography of Petroleum

March 28 — LABGS Monthly Luncheon Meeting

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

Speaker: Rick Behl (California State University, Long Beach)

Topic: Santa Barbara Basin Sediment Record

April 1 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speaker: Roger Slatt (University of Oklahoma; AAPG Distinguished Lecturer)

Title: Outcrop/Behind Outcrop Characterization of Deepwater (Turbidite) Petroleum Reservoir Analogs: Why and How

April 12 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR

Speaker: TBA

April 16 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speaker: Mike Nelson (California Oil Museum)

Title: Bard, Stanford, and the 1860s Hunt for California Crude

April 18 — AGS Monthly Luncheon Meeting

Location: Anchorage Hilton, Anchorage, AK

Speaker: Mark Sheihing (Phillips Alaska, Inc.)

Title: Reservoir Characterization of the Kuparuk River Field, North Slope, Alaska

April 18* — LABGS Monthly Luncheon Meeting

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

Speaker: Jim Kennett (University of California, Santa Barbara)

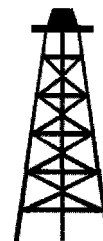
Topic: Clathrates and Global Climate Change

April 24 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA

Speaker: John Gabelman (Consultant)

Title:* Hydrous Carbonatitic(?) Volcanism in Central Wyoming



UPCOMING EVENTS

- | | |
|-----------|--|
| May 9 | • AGS Monthly Luncheon Meeting |
| May 10* | • NWEA Monthly Luncheon Meeting |
| May 15 | • NCGS Monthly Meeting |
| May 16* | • LABGS Monthly Luncheon Meeting |
| May 18-23 | • Pacific Section Convention (Anchorage, AK) |
| May 21 | • CGS Monthly Dinner Meeting |
| June 18 | • CGS Monthly Dinner Meeting |
| June 20* | • LABGS Monthly Luncheon Meeting |

* Tentative

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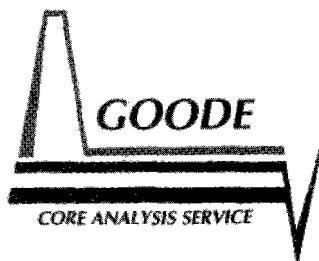


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New & Reinstated Members

Roland R. Acuna	<i>Strata Tech, Inc.</i>	Buena Park, CA
Samuel J. Allen	<i>Subsurface Exploration Co.</i>	Pasadena, CA
Edward Burrows	<i>Geosoils, Inc.</i>	Anaheim, CA
Mario V. Caputo	<i>Mt. San Antonio College</i>	Walnut, CA
Thomas W. Cooper	<i>T.W. Cooper, Inc.</i>	Torrance, CA
Bob Davis	<i>Schlumberger</i>	Bakersfield, CA
Nelson B. Escue	<i>First National Oil, Inc.</i>	El Cajon, CA
Rande Gardiner	<i>Independent</i>	Bakersfield, CA
Henry J. Gerke	<i>Occidental of Elk Hills</i>	Bakersfield, CA
Tom L. Heidrick	<i>Chevron Overseas Petroleum Inc.</i>	La Habra Hills, CA
Pamela J. Irvine	<i>California Division of Mines & Geology</i>	Los Angeles, CA
Sandra A. Jankowski		Los Angeles, CA
John D. Jepson	<i>California Div. of Oil, Gas & Geothermal Resources</i>	Cypress, CA
Neal Livingston	<i>Nuevo Energy Co.</i>	Bakersfield, CA
Richard E. Lownes		Pasadena, CA
Thomas R. Marshall, Jr.	<i>Mesa Consolidated Water District</i>	Wasilla, AK
Margaret Rutledge	<i>ChevronTexaco</i>	Costa Mesa, CA
Karen Whittlesey		Bakersfield, CA

In Memory

Memorial articles and photographs may be sent to the editor by family or friends of Pacific Section AAPG members. Materials are subject to revision to accommodate newsletter space constraints and will be returned upon request.

DEVAUN E. RITZIUS

Devaun E. "De" Ritzius passed away September 10, 2001, from pancreatic cancer. He was born in Fort Wayne, Indiana, in 1908 and moved with his family to Eagle Rock, California, in 1921. He received a B.S. degree in petroleum engineering and geology from Occidental College in 1931 (graduating in three years) and did graduate work at the University of Southern California and California Institute of Technology.

He began his career with Kettleman North Dome Corporation in Avenal, California, and subsequently worked for General Petroleum Corporation (on the Wilmington oil field) and Caminal Oil Company (on the Montebello oil field). In 1946, De was hired by the California Division of Oil and Gas in Taft, and began a very enjoyable and rewarding career with DOG. In 1955, he was asked to write a plain-language compendium that addressed many aspects of oil occurrence, production, transportation, and refining in California; the volume, which was published in 1961 as DOG Publication TR03, was titled *California Oil, Gas, and Geothermal Resources, An Introduction*, but was (and is still) widely known as *The Adult Primer*. De also contributed to other DOG publications, including the annual *Summary of Operations*, in which he addressed the energy resources of southern California. He thoroughly enjoyed his career with DOG—from his early fieldwork as an Associate Engineer to his retirement in 1975 as Deputy Supervisor of the Santa Paula office. De's DOG colleagues remember him as someone who was "...always friendly, helpful, and enjoyed discussing geology."

In 1999, De was honored by AAPG with a sixty-year membership certificate and a letter of appreciation for his many years of loyal membership. He was also among those with the longest sustained membership in the Pacific Section AAPG, having joined in 1939.

During his retirement years, De made many trips throughout the United States, visiting interesting geological sights and our beautiful country. He found great pleasure visiting with friends and being with his family and grandchildren. He is survived by his wife, daughter, brother, two grandchildren, and three great-grandchildren.

—Jean Ritzius with California Division of Oil, Gas, and Geothermal Resources staff



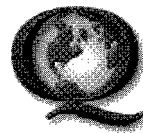
New Curator at Well Sample Repository

The California Well Sample Repository Board of Governors is pleased to announce that **Frank Charron** has agreed to take on the duties of running the Repository. Frank comes to us by way of 20+ years in the mining and oil industries. He most recently worked for Texaco in Bakersfield. Frank is working on improving and streamlining the CWSR database by applying some new tools to the problem. The Repository will be open Monday, Wednesday, and Thursday from 8:00 a.m. to 3:00 p.m., and Frank may be available on other days with prior notice.

We have volunteers working on Wednesday and Thursday mornings. Please join us if you can. Other volunteer workdays are organized on some Fridays. If interested, please contact Frank at:

CALIFORNIA WELL SAMPLE REPOSITORY
CALIFORNIA STATE UNIVERSITY, BAKERSFIELD
9001 STOCKDALE HIGHWAY
BAKERSFIELD, CA 93311
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661-665-6966 FAX
fcharron@csu.edu

—Larry Knauer, California Well Sample Repository



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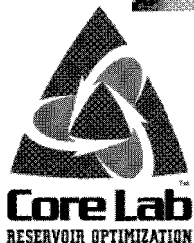
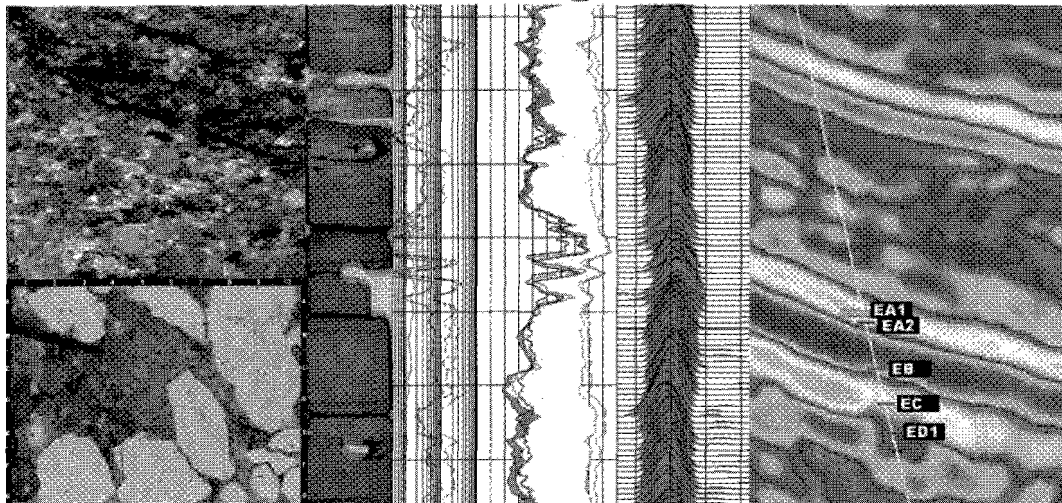
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Operations Coring Coordinator



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Fax: 661-834-2450
Pgr: 661-321-7156
E-Mail: mark.pahler@inteq.com

Reservoir Optimization



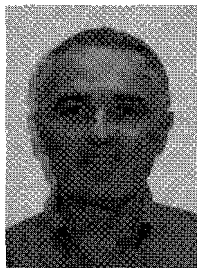
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(661) 392-0824
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(907) 349-3541

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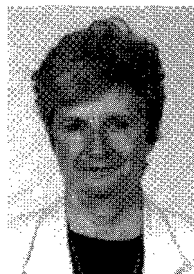
2002 ELECTION CANDIDATES

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



**JAMES ALLEN
WAGGONER**

*Candidate for President-Elect
2002-2003*



**MURIEL
NORTON**

*Candidate for President-Elect
2002-2003*

Present Position

Manager/Senior Geologist, WZI Inc., Bakersfield

Education

1976 B.S. Geology, San Diego State University
1979 M.S. Geology, San Diego State University

Employment

1979-1985 *Exploration Geologist, Senior Exploration Geologist, Tenneco Oil Company, Bakersfield*
1985-1987 *Senior Geologist, Great American Resources, San Diego*
1988-1991 *Project Geologist, ICG Inc., San Diego*
1987-Present *Geological Consultant, World Resource Development, San Diego*
1992-1997 *Geologist, WZI Inc., Bakersfield*
1997-Present *Manager/Senior Geologist, WZI Inc., Bakersfield*

Pacific Section AAPG Involvement

1981-1982 *Secretary, San Joaquin Geological Society*
1995-1996 *Secretary, Pacific Section AAPG*
1997 *Pacific Section Convention Committee*
2001-2002 *President, San Joaquin Geological Society*

Professional Affiliations

AAPG
Pacific Section AAPG
AAPG Division of Environmental Geosciences
San Diego Association of Geologists
National Ground Water Association
Golden Empire Air and Waste Management Association
California Mining Association
California Registered Geologist #5719
California Certified Engineering Geologist #1818
California Certified Hydrogeologist #724

Present Position

President, Subsea Systems, Inc., Ventura

Education

1983 B.A., California Lutheran University

Employment

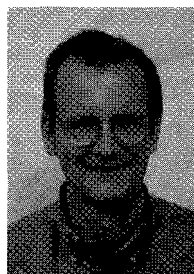
1976-1986 *Geologist, Fugro McClelland Engineers, Ventura*
1986-Present *Vice-President, Geoquip Corporation, Oxnard*
1999-Present *President, Subsea Systems, Inc., Ventura*

Pacific Section AAPG Involvement

1989-1990 *Secretary, Coast Geological Society*
1991-1994 *Treasurer, Pacific Section AAPG*
1997-Present *Finance Chair, Pacific Section AAPG*

Professional Affiliations

Pacific Section AAPG



**STEVE
SANFORD**

*Candidate for Vice President
2002-2003*

Present Position

Project Manager, ChevronTexaco, Bakersfield

Education

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

Employment

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

Pacific Section AAPG Involvement

1993 *Session Chair, Pacific Section Convention*
2000 *Session Chair, Pacific Section Convention*
2001-2002 *Secretary, Pacific Section AAPG*

Professional Affiliations

AAPG
Pacific Section AAPG
SPE



Don't be an idiot —

The word "idiot" comes from a Greek phrase for "he who does not vote."

— Vote in the Pacific Section AAPG election!



**TRACEY
FLEMING-REESE**
*Candidate for Vice President
2002-2003*

Present Position

Senior Staff Geologist, EarthQuest Technology, Inc., Bakersfield

Education

1985 B.S. Geological Engineering (Highest Honors),
Montana College of Mineral Science and
Technology

Employment

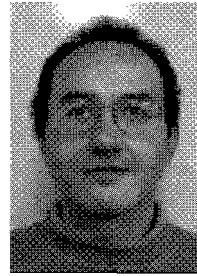
1985-1987 *Petrophysical Engineer, Shell California Production,
Inc., Bakersfield*
1987-1991 *Geologist, Shell California Production, Inc. and Shell
Western E & P, Inc., Bakersfield*
1993-1999 *Geologist/Petrophysicist, Digital Petrophysics Inc.,
Bakersfield*
1999-Present *Senior Staff Geologist, EarthQuest Technology, Inc.,
Bakersfield*

Pacific Section AAPG & Community Involvement

Presenter, Pacific Section AAPG Conventions
Geology Presenter, GEMS (Girls Enjoying Math and Science)
Geology Badge Instructor, Girl Scout Regional Camp

Professional Affiliations

AAPG
Pacific Section AAPG
San Joaquin Geological Society
San Joaquin Well Logging Society
SPE
Tau Beta Pi Engineering Honor Society
California Registered Geologist #7236



**HILARIO
CAMACHO**
*Candidate for Secretary
2002-2003*

Present Position

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

Education

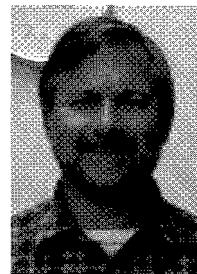
1992 B.S. Geology, University of Granada, Spain
2000 M.S. Geology, California State University, Long Beach
Present Ph.D. Candidate, University of California, Santa
Barbara

Employment

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

Professional Affiliations

AAPG
SEPM
Geological Society of America



**JON
SCHWALBACH**
*Candidate for Secretary
2002-2003*

Present Position

Senior Geological Advisor, Occidental of Elk Hills, Inc., Bakersfield

Education

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

Employment

1982-2000 *Exxon USA, Exxon Production Research, Exxon
Exploration Company*
2000-2002 *Occidental of Elk Hills, Inc., Bakersfield*

Pacific Section AAPG Involvement

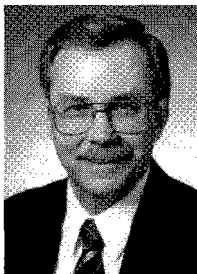
1983-2001 *Numerous talks and posters presented at AAPG and
SEPM national and section meetings*
1992 *Fieldtrip Leader, SEPM Pacific Section*
1995 *Poster Session Chair, AAPG National Meeting*
1998 *Convention Chair, Pacific Section Convention*
1999 *Oral Session Chair, Pacific Section Convention*
2001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

Professional Affiliations

AAPG
Pacific Section AAPG
SEPM

★ ★ ★ ★ ★
**Top Five Reasons to Vote
in the Pacific Section AAPG Election:**

5. To minimize waste of paper, printing, and mailing expenses for producing and distributing the ballots.
4. To improve your mental and physical fitness by filling out and returning your ballot.
3. To improve the Membership Chairman's physical fitness through frequent trips to collect numerous returned ballots at the Pacific Section AAPG mailbox.
2. To demonstrate that you subscribe to the tenet that "Every vote counts, except in Florida."
1. To participate in the democratic process of choosing the individuals to represent and serve our organization!



ROBERT COUNTRYMAN

*Candidate for Foundation Trustee
2002-2005*

Present Position

Geological Advisor, Occidental Oil Co., Bakersfield

Education

1973 B.S. Geology, California State University, Northridge
1977 M.S. Geology, University of California, Los Angeles

Employment

1973-1976 *Industrial Minerals Geologist, Tenneco Oil Co., NV*
1977-1979 *Research Geophysicist, UCLA, South Pole, Antarctica*
1979-1984 *Exploration & Production Geologist, Development
Geology Supervisor, Gulf Oil Company, Bakersfield*
1984-1987 *Stratigrapher, Venezuela Task Force, Chevron
Overseas Petroleum*
1987-1998 *Development/EOR Geologist, Chevron USA, Bakersfield*
1999-2000 *Consulting Geologist, Bakersfield*
2001-Present *Geological Advisor, Occidental Oil Co., Bakersfield*

Pacific Section AAPG Involvement

*Editor, San Joaquin Geological Society Selected
Papers Vol. 7*
*Chair, Co-Chair, or Participant, numerous Pacific
Section AAPG Committees, Conventions, etc.*
1983-1984 *Vice President, San Joaquin Geological Society*
1984-1986 *President/President-Elect, San Joaquin Geological
Society*
1990-1991 *Secretary, Pacific Section AAPG*
1992-1993 *Vice-President, Pacific Section AAPG*
1993-1995 *President/President-Elect, Pacific Section AAPG*
1996-2000 *Directory Committee Chair, Pacific Section AAPG*
1996-Present *Membership Committee Chair, Pacific Section AAPG*
1998-Present *Secretary & Trustee, Pacific Section AAPG Foundation*
2000 *Pacific Section AAPG Honorary Membership*

National AAPG Involvement

1991-Present *Delegate, AAPG House of Delegates (representing
San Joaquin Geological Society)*
1995 & 1999 *AAPG Certificate of Merit*
1996-Present *Member, Vice-Chair & Chairman, AAPG Membership
Standing Committee*
1997-2000 *AAPG Advisory Council Member*
2001 *AAPG Distinguished Service Award*

Professional Affiliations

AAPG
Pacific Section AAPG
Pacific Section SEPM
Geological Society of America
California Registered Geologist #4868
Certified Earth Scientist (SIPES) #2799

★ ★ ★ ★ ★
Don't be too busy —

According to the U.S. Census Bureau, the most
common reason for not voting is "too busy."

— Vote in the Pacific Section AAPG election!

New Editor at Dibblee Foundation

Dr. John Minch has been selected as the new Editor of the Thomas Wilson Dibblee, Jr. Geological Foundation. John has been the Acting Editor for the last three months. He successfully brought the Santa Cruz Island East and West maps to publication by the Foundation in December. John brings a new style of producing the high-quality Dibblee Geological Foundation maps in digital form cutting costs while increasing quality and the rate of production of the maps.

The Dibblee Geological Foundation will publish an additional five maps covering six quadrangles along the San Andreas Fault in early March. Those maps will include the Burnt Peak, Lake Hughes, Del Sur, Juniper Hills, Valyermo, and Mescal Creek quadrangles. The Foundation plans to publish an additional eight maps in the Angeles Forest area of the San Gabriel Mountains and in the San Dimas area by early summer. By late summer we will be well into a series of maps in the San Joaquin Valley.

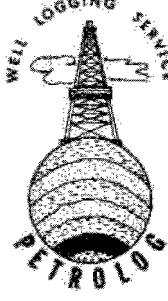
The Dibblee Geological Foundation is a non-profit educational organization dedicated to publishing the life work of Thomas W. Dibblee, Jr. The Dibblee Geological Foundation has published over one hundred 7.5-minute quadrangles of Mr. Dibblee's mapping. Mr. Dibblee has about 400 unpublished field sheets (7.5-minute quadrangles and 15-minute quadrangles) waiting for publication.

With plans to publish 20 to 25 maps this year, your donations are needed more than ever. You can make a difference and help us make this tremendous resource of maps available to all. Send your donations to:

DIBBLEE GEOLOGICAL FOUNDATION
P.O. Box 2309
CAMARILLO, CA 93011

With individual donations of \$500 or more and corporate donations of \$1000 or more you will be acknowledged on upcoming maps. Please contact John Powell, President, at 805-987-5846 or John Minch, Editor, at 949-367-1000 with requests for information.

—John Powell, Dibblee Geological Foundation



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Charity Golf Tournament

The Bakersfield Association of Petroleum Landmen will hold its 14th Annual Charity Golf Classic on April 5, 2002, at the Riverlakes Golf Club in Bakersfield. The event will include an all-afternoon golf scramble with a shotgun start at 11:30, and dinner and raffle prizes, all in an effort to raise donations for the Bakersfield Homeless Center. The cost to participate is \$85 per person, which includes green fees, golf cart, and BBQ dinner (after the tournament). Last year the tournament raised \$12,000 in contributions for BHC. Look for registration flyers at the March 12 meeting of the San Joaquin Geological Society or contact **Chris Boyd** (Aera) at 661-665-5330 or **Charlie Adams** (Oxy) at 661-763-6554.

PTTC Workshops

The Petroleum Technology Transfer Council West Coast Resource Center will convene a number of events this Spring (see below). For more information, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

- March 18 • Diagnosis and Design of Sucker Rod Pumping Systems (Valencia, CA)
- April 18 • Enhanced Gas Production from California Fields (Valencia, CA)
- May 15-16 • California Offshore/Monterey Database Review (Ventura, CA)
- May 23 • Natural Gas Hydrates Short Course (Anchorage, AK) [in conjunction with the AAPG/SPE meeting]

Tensleep FMI Imagery & Interpretation Available

The Rocky Mountain Oilfield Testing Center at Teapot Dome Field, Wyoming is making available (at no charge) a CD ROM with Pennsylvanian/Permian Tensleep Formation imagery and interpretation acquired with Schlumberger's Fullbore Formation MicroImager tool. Features include: natural fracturing, fracture porosity, fracture apertures, drilling-induced fracturing, far-field stress analysis from breakouts, dune crossbedding, interdune deposits including sands, evaporates, and dolomites, dolomite/evaporite vuggy porosity, tightly cemented and diagenetically altered sands, bimodal paleo-wind directions (summer vs. winter?), and rapid wind direction changes. Included is Schlumberger's PDS View 2.1 software, and Platform Express and dipole sonic log LAS files. Contact **Mark Milliken** at Critique, Inc., 907 N. Poplar, Suite 150, Casper, WY 82601, 307-261-5161 ext. 5162, milliken@vcn.com.



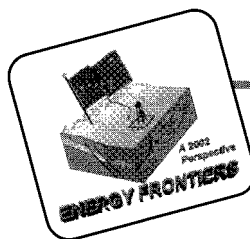
BLM Field Trips

The Bureau of Land Management and Buena Vista Museum of Natural History offer a program of earth science field trips to points of ecologic, geologic, paleontologic, and historic interest throughout central California. The trips are designed for persons of high school age and older, and it is not necessary to have a technical background to attend or benefit from the trips. For information about the trips and registration, visit the BLM website at www.ca.blm.gov/bakersfield/geologytrips.html or contact **Gregg Wilkerson** at 661-391-6177.

- April 12-14 • Mother Lode 2002: The Southern Mines
- May 31-June 2 • Point Sal
- October 5-6 • Panoche and Tumey Hills

San Francisco Bay Course & Field Trip

The University of California Museum of Paleontology will host a short course and field trip in March, entitled *Back to the Future—The History of San Francisco Bay*. The course will be held on the University of California campus in Berkeley on March 16; topics to be addressed include: geologic forces shaping the Bay, results of sea level fluctuations through the ice ages, ecology of the Bay, major impacts on the Bay by humans and other species, and the future of the Bay. The March 17 field trip will begin in Alameda and include a cruise on the Bay to examine the features discussed in the course. For more information, visit the Museum's website at www.ucmp.berkeley.edu/museum/events/shortcourse2002.



Pacific Section AAPG Annual Business Meetings

All Pacific Section AAPG members are invited to attend the annual open business meetings of the Pacific Section AAPG and Pacific Section AAPG Foundation, which will be held during the 2002 AAPG/SPE Meeting in Anchorage.

The meetings will be held at the Sheraton Anchorage Hotel on Wednesday, May 22, as follows:

Pacific Section AAPG Foundation*	5:00 to 5:30 p.m.
Pacific Section AAPG	5:30 to 6:30 p.m.

* In the event a quorum is not present in Anchorage for the Foundation meeting, the meeting will be held in Bakersfield at 4:00 p.m. on June 11, 2002, at 5001 California Street (ChevronTexaco office building).

**Deadline for the
May/June issue:
April 10, 2002**

**Visit the Pacific Section AAPG
website:
www.psaapg.org**

The *Pacific Petroleum Geologist Newsletter* is published bimonthly by the Pacific Section of the American Association of Petroleum Geologists.

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Change of address, subscription, and membership inquiries should be directed to:

Membership Chairman
Pacific Section AAPG
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To order publications of the Pacific Section AAPG, write to:

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American Association of Petroleum Geologists**

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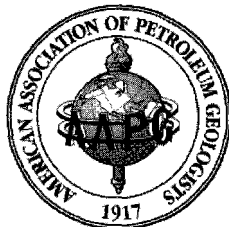


Pacific Petroleum Geologist Newsletter
Pacific Section AAPG
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PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



Pacific Section
American Association of Petroleum Geologists

Bimonthly Newsletter of the Pacific Section AAPG

May & June • 2002

MESSAGE FROM THE PRESIDENT

Increasingly, we are living in a digital world. While the long-awaited dream of the paperless office continues to elude most of us (e.g., my desk is currently buried under several feet of paper that is slowly turning into coal at the base), much of our society is already digital. From the way we purchase things (e.g., you can now use a credit card to buy a hamburger) to direct deposit of paychecks and bill paying online, our society has changed drastically in the last two decades.

In many ways our profession is at the forefront of this digital revolution. The days of needing a large office with room for a drafting table on which to lay out carefully hand-drawn maps are virtually over; it has been replaced by an 8 by 8-foot cubicle housing a workstation with several monitors. Nearly everything a petroleum geologist does these days can be done on the computer.

Our Pacific Section AAPG is no different in changing with the times. Our website, www.psaapg.org, is increasingly becoming the preferred method of disseminating information to our members. Over the last year, we have received 38,620 hits. That's 106 hits per day. Our *PPG Newsletter* is available to our members online. Convention registration is done online. Submitting an abstract is done online. The presentations at the conventions are nearly all digital. National AAPG will no longer publish the abstracts of our meetings in the *Bulletin*; they will be available online instead. Soon, the *Bulletin* itself will be solely digital.

So, where are we going with all this? As more and more of our members receive their information through digital means, our need for costly printed publications will decrease. Printing and distributing our *PPG Newsletter* and other Pacific Section publications comprise a large portion of our annual budget. Having this information available only in digital format to our members online would free up funds for other items, such as greater support of students in our region, sponsoring more distinguished lecturers at the society meetings, sponsoring of short courses, and maybe even more field trips.

Perhaps the greatest use of the funds saved by going digital would be to support the California Well Sample Repository in Bakersfield, which has suffered a significant decrease in funding. It and its counterpart in Long Beach represent the last great repositories of West Coast geologic information that we can still lay our hands on. Support for and accessibility to these resources will be crucial in the coming years for our profession. And while much of this information will eventually be available in digital format, nothing will ever beat having the ability to lay your hands on a core sample that will help you make sense of all that digital information back in your cubicle.

—Allen Britton, President, Pacific Section AAPG

Join us in Anchorage!

Joint Conference
PACIFIC SECTION AAPG
WESTERN REGION SPE

MAY 20-22, 2002
Anchorage, Alaska

Information & Online Registration:

www.aapg-spe-2002.org



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2002 Teacher of the Year Award

It is our pleasure to announce that **Ms. Carolyn Stallings** has been selected as the recipient of the Pacific Section AAPG 2002 Teacher of the Year Award, recognizing excellence in the teaching of natural resources in the earth sciences. Ms. Stallings is a sixth-grade teacher at White Cliff Elementary School in Ketchikan, Alaska. The winner of this award is selected from candidates submitted by each of the seven Pacific Section AAPG affiliated societies, representing our membership in California, Oregon, Washington, Alaska, and Hawaii. Ms. Stallings was the winner of the Alaska Geological Society Teacher of the Year competition. The Pacific Section award includes:

- \$500 to be used in support of her local school science program
- Expenses to cover her attendance at the 2002 Pacific Section AAPG-Western Region SPE convention in Anchorage on May 18-23
- Recognition at the convention's Keynote and Awards Luncheon on May 21

In addition, Ms. Stallings' application will be submitted to the *National AAPG Foundation* competition for *Excellence in the Teaching of Natural Resources in the Earth Sciences* as the Pacific Section candidate. This national competition includes an award of \$5,000.

—Terry W. Thompson

Chairman, Youth Activities Committee, Pacific Section AAPG

AAPG Foundation Kilkenny Fund

The Kilkenny scholarship grant, initiated by the Pacific Section AAPG to honor former President **John Kilkenny**, provides a \$750 grant to a deserving student in the Pacific Section region each year. This grant could be increased to \$1,000 with the contribution of another \$3,325 to the AAPG Foundation Kilkenny fund. Please remember John and his contribution to the Pacific Section when sending in your AAPG dues statement by making a contribution to that fund. Donations can be made using the dues statement of either the Pacific Section AAPG or the National AAPG.

—Mark Wilson, Trustee, Pacific Section AAPG Foundation

DAVID B. DEL MAR

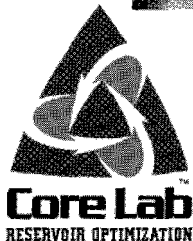
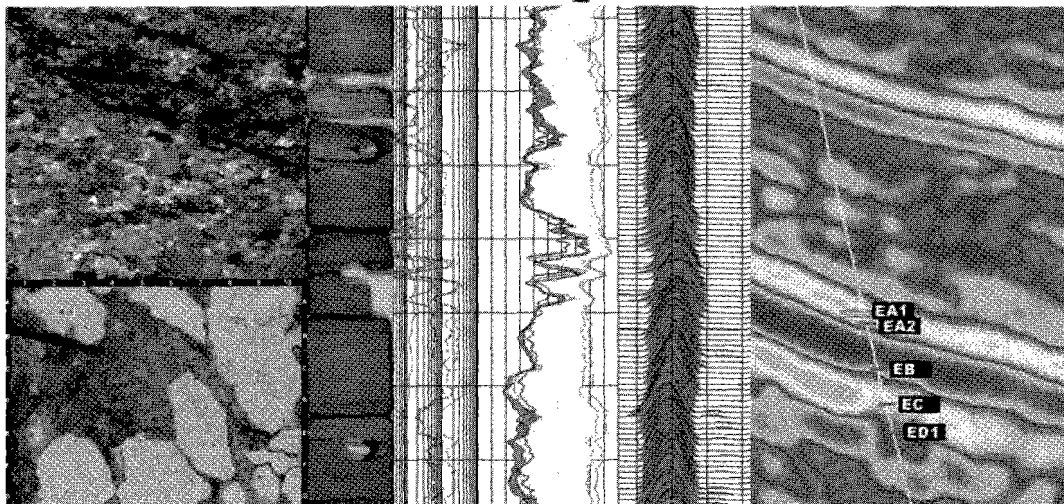
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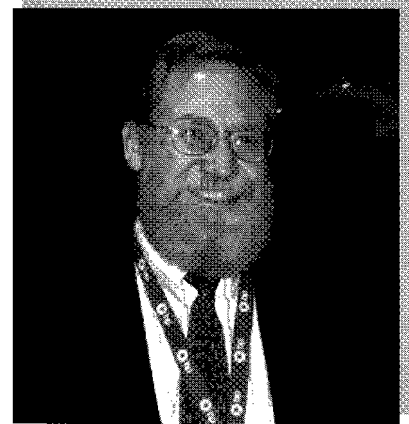
SNAPSHOTS FROM THE AAPG ANNUAL CONVENTION

The Pacific Section AAPG was well represented at the 2002 AAPG Annual Convention, March 10-13 in Houston.

Photographs courtesy of Larry Knauer



The Bobs have it: **Mark Wilson** (ChevronTexaco) on the left, **Kay Pitts** (Aera Energy) on the right, and three Bobs in the middle (left to right): **Bob Countryman** (OXY), **Bob Lindblom** (consultant), and **Bob Bates** (Aera Energy).



Weathering it well: **Rusty Riese** (BP, Houston), a former mover and shaker of PS-AAPG. The Houston humidity seemed to agree with his beard.



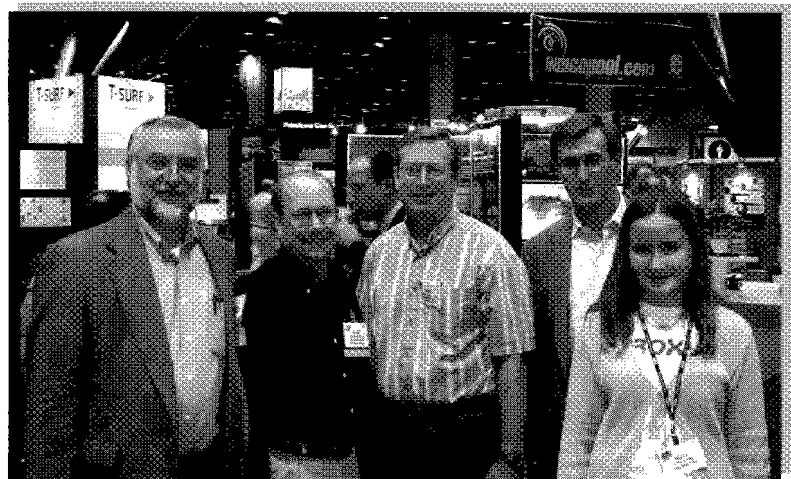
Fit to be tied (left to right): **Tony Reid** (OXY), **Larry Knauer** (ChevronTexaco), and **Mark Wilson**. You will never see these three guys together with ties on again!



Jeff Shellebarger (ChevronTexaco, PS-AAPG representative on AAPG Committee on Conventions) joined **Kay Pitts** at the awards ceremony.



Presidential pals: **Kay Pitts** (immediate Past President of PS-AAPG) and **Robbie Gries** (President of AAPG).



A herd of Pacific Sectioners: **Mark Wilson**, **Allen Britton** (Core Laboratories, President of PS-AAPG), **Tony Reid**, **Don Clarke** (City of Long Beach), and **Holly Clarke** (Don's daughter) bumped into each other in the convention exhibits hall.

AAPG President to Address San Joaquin Geological Society

AAPG President Robbie Gries will be the guest speaker at the May 14 SJGS meeting in Bakersfield, where she will address the continuing need for innovative thinking.

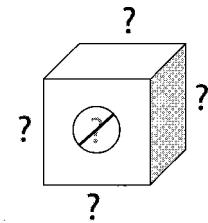
Thinking "Out of the Box"—the Role of the Geologist in Meeting Future Energy Demand

Robbie Gries

The demand for oil and gas in the next century will greatly increase in the next few decades, and reserves are limited. Converting vast amounts of "undiscovered" resources into proven reserves will require geologists "to think out of the box." This means looking at methods no one has tried before, looking for accumulations previously thought unlikely, and looking in places where others have overlooked or thought impossible.

This has never been easy, but it has been the key to giant new reserves being developed. Overturning the "dogma" that is currently favored by explorationists with a new "heresy" has a history of difficulty. From the "anticlinal theory" in the 1880s to sequence stratigraphy in the 1980s, geologists have had to persevere to get a new idea tested. Several recent plays that have convincingly converted former "undiscovered resources" into "proven reserves" are basin-centered gas, coal bed methane, and sub-salt exploration. Some older plays, like the early offshore Indonesian exploration, required not only creative geology, but unusual deal making.

Buying reserves or increasing reserves by merging with another company does not discover new oil and gas. Taking the risk to develop a new idea, to finance an unusual idea, and to drill is what will provide the supply needed in the next century.



Robbie Gries is President of the American Association of Petroleum Geologists. She is founder and President of Priority Oil & Gas LLC, a Denver-based natural gas production, petroleum exploration and development company operating in Kansas, Colorado, and Wyoming. Priority has also been instrumental in the development of a one-million acre "tight gas sand" project onshore in the cross-border region of Ireland and Northern Ireland, where there is no economic production to date. Partners are currently drilling a pilot project to evaluate the area.

Robbie has been active in the petroleum industry for 28 years, working initially for Texaco, Inc., then Reserve Oil Inc. She has been independent since 1980. She has combined the business side of oil and gas with her passion for the science of geology, publishing over 30 professional papers. She has developed and published ideas about drilling beneath thrust Precambrian rocks along the Rocky Mountain uplifts. In the 1980s, she pioneered the discovery of a concealed and unexplored Cretaceous basin beneath the San Juan volcanic field in southern Colorado. Robbie is a Director for the Colorado Oil and Gas Association, an Honor Alumnus of Colorado State University, and has a Master's degree in geology from The University of Texas at Austin, where she currently serves on the Advisory Council for the Geology Foundation.

Dibblee Maps Now on CDs

The Dibblee Foundation is now producing Tom's maps on CDs. The CD program is specifically designed to allow the user to view and extract Dibblee map coverage for use in GIS projects, and for enhancing reports, presentations, and publications. Map data can be quickly and easily imported into any raster-capable mapping application, including ARC/INFO, ArcView, MapInfo, and AutoCAD Map. The data can also be used by any software package that supports standard TIF and GeoTIFF images.

Each CD includes multiple maps and quadrangles in PC format, and detailed instructions. Each map is included as an individual georeferenced quad at 125 dpi and as part of a single georeferenced stitched (mosaic) map of all included quads at 300 dpi. The three CDs overlap to eliminate edge effects.

CD-1: *The Geology of the Santa Monica Mountains*

18 Maps / 23 Quadrangles
Camarillo to Mt. Wilson and Sunland/Hollywood
Maps DF-22, 23, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 47, 48, 49

CD-2: *The Geology of the Santa Barbara area and western Santa Ynez Mountains*

15 Maps / 17 Quadrangles
Gaviota and Zaca Lake to Carpinteria
Maps DF-3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 43, 44, 45, 54, 55

CD-3: *The Geology of the Ventura area and eastern Santa Ynez Mountains*

16 Maps / 17 Quadrangles
Carpinteria to Moorpark/Fillmore
Maps DF-1, 2, 3, 4, 11, 12, 13, 14, 21, 26, 27, 40, 41, 42, 60, 61

The price of each CD is \$110.

Gordon Gastil is 2002 Dibblee Medalist

Russell "Gordon" Gastil, Professor Emeritus in Geology at San Diego State University, is the 2002 recipient of the Thomas Dibblee Medal. He is a California field geologist who truly typifies what Tom Dibblee is all about.

He has mapped and supervised the mapping of tens of thousands of square miles in Arizona, California, and Mexico, including the entire state of Baja California. He instilled the art of practical field mapping in hundreds of geologists for more than four decades. Gordon has multiplied his work by inspiring and training generations of geologists to get out in the field to learn the foundations of geology. It would take many pages to list the field accomplishments of Gordon Gastil.

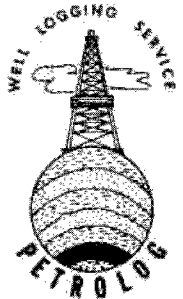
In the late 1950s and early 1960s, when jobs in geology were scarce to nonexistent, he secured National Science Foundation grants and other funds for students to create practical jobs in field mapping in the northern Mojave Desert and Arizona. In 1963, he secured an NSF Grant and hired ten students (including two from UABC in Mexico) to begin to produce a reconnaissance geologic map of the State of Baja California, Mexico. He often said that it was to find out where the granitic rocks were located. Actually, during that first year we had no real thought that we would eventually map the entire State, so we ordered only part of the first set of available air photos. The rest were ordered a month later, and the quest was on.

During that summer in 1963, Lee Silver of Cal Tech commented that Gordon was mapping in "their" area. Gordon was heard to reply, "Oh! We're just mapping through." And map through he did... until ten years later the reconnaissance geologic map and GSA Memoir 140 on Baja California were finished. Along the way he mapped a large section of Sonora and the Tepic area on the mainland edge of the mouth of the Gulf of California. All of this work was made possible by grant money.

What is remarkable about this mapping feat is that much of it was accomplished with students and that, through his efforts, generations of students (including myself and my students) were trained in the art of field geology. These field geologists have produced many hundreds of publications, senior theses, masters theses, doctoral dissertations, and geologic quadrangles in Baja California, elsewhere in Mexico, and in the United States.

The time and place of the awarding of the medal will be announced in the next issue of this newsletter.

—John Minch, Editor, Dibblee Geological Foundation



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Dibblee Foundation in High Gear

The **Thomas Wilson Dibblee, Jr. Geological Foundation** is now in high gear under the editorship of **John Minch**. The Foundation is using a new method to produce maps in digital form, which is reducing costs while maintaining the high quality and increasing the rate of production of the maps.

This year, the Foundation has already published five maps covering six quadrangles along the San Andreas Fault. Those maps, which are available now, include: DF-83 Burnt Peak, DF-82 Lake Hughes/Del Sur, DF-79 Juniper Hills, DF-80 Valyermo, and DF-81 Mescal Creek. The Foundation has five additional maps of the San Gabriel Mountains area ready for printing: Condor Peak, Chilao Flat, Waterman Mountain, Crystal Lake, and Mount San Antonio. The Black Mountain and Liebre Mountain maps are complete and will be printed in May/June, along with the third set of five maps, which includes Glendora, Mount Baldy, and San Dimas/Ontario. In addition, we have published two more CDs, which include digital versions of the Dibblee maps in the Santa Barbara and Ventura areas. We now have digital coverage from Gaviota to Hollywood.

Eight Foundation maps in the Maricopa-Taft-Midway-McKittrick areas of the San Joaquin Valley are nearly complete, and there are plans to print them by late summer. Already in the works, and partially completed, are four maps in the Cajon Pass area (to complete the San Gabriel Mountains series), three maps in the San Luis Obispo area, and six maps in the area on the south side of Cuyama Valley. The Foundation expects to publish more than 25 maps this year and to publish as many or more maps each year, in addition to publishing maps of remote and lower-interest areas on CDs.

The Dibblee Geological Foundation is a non-profit educational organization dedicated to publishing the life work of Thomas W. Dibblee, Jr. The Foundation has published more than 100 7.5-minute quadrangles of Mr. Dibblee's mapping. About 400 of his unpublished field sheets (7.5-minute quadrangles and 15-minute quadrangles) await publication.

With plans to publish 20 to 25 maps this year, and to maintain and increase this production level in coming years, it is critical that we receive more funding. **Your donations are needed more than ever.** You can make a difference and help us make this tremendous resource of maps available to all. **Do not let our current level of effort stall due to a lack of resources to produce the maps.** We will be happy to make a presentation to your company to outline our plans and to help with requests for funds for this increased rate of publication of the Dibblee maps.

Please send your donations to the Dibblee Geological Foundation at Post Office Box 2309, Camarillo, California, 93011. Individual donations of \$500 or more and corporate donations of \$1000 or more will be acknowledged on upcoming maps. Please contact **John Powell**, President, at 805-987-5846 or **John Minch**, Editor, at 949-367-1000 for information.

—John Minch, Editor, Dibblee Geological Foundation



Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: *Gerry Vankooten*
907-564-5391



Luncheon meetings are usually held on the third Thursday of the month (except July and August) at the Anchorage Hilton (500 W. 3rd Avenue) from 11:30 a.m. to 1:00 p.m. The cost is \$16 (with reservations) or \$20 (without reservations). No meetings are scheduled for the coming months due to AGS's involvement in the AAPG-SPE meeting.



AGS is co-hosting the joint meeting of the Pacific Section AAPG and Western Region SPE, which will be held May 18-23 in Anchorage. For information, see www.aapg-spe-2002.org.



AGS has selected **Carolyn Stallings**, a teacher at White Cliff Elementary School in Ketchikan, Alaska, as the winner of its 2002 competition for Excellence in the Teaching of Natural Resources in the Earth Sciences. She has also been selected as the winner of the Pacific Section AAPG 2002 Teacher of the Year Award (see page 2).

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: *Bob Orlando*
805-656-4677



Dinner meetings are usually held on the third Tuesday of the month (except July and August) at the American Legion Hall (83 S. Palm 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 \$12 (with reservation), \$17 (without reservation), or \$7 (students and K-12 teachers); the talk is free. The next meetings are scheduled for May 21 and June 18 (see Schedule of Events). For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.



CGS sends its members monthly e-mail notices about CGS news and events, and wants to expand its mailing list to include others (nonmembers) interested in CGS. If you want to be included on the CGS e-mail list, contact **Scott Simmons** at coastgeo@pacbell.net.

Los Angeles Basin Geological Society
c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: *Dalton Lockman*
323-298-2242



Luncheon meetings are usually held on the third or fourth Thursday of the month (except July and August) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meetings are scheduled for May 23 and June 20 (see Schedule of Events). The cost is \$17 or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



LABGS has selected **Donald Lofgren** as the winner of its 2002 competition for Excellence in the Teaching of Natural Resources in the Earth Sciences. He is a science teacher at the Webb Schools in Claremont, California, and he will receive a \$250 award to use in his school's science program or to attend a science conference or seminar.



LABGS plans to hold an election in June for officers who will serve during the 2002-2003 fiscal year. Offices include President, Vice President (program chair), Treasurer, and Secretary; two of four delegate positions to AAPG are also open. If you would like to run or nominate someone for office, contact **Dalton Lockman** at 323-298-2242 or **Mike Mills** at 714-220-9138 ext. 13.

Access this newsletter online at www.psaapg.org!

May/June password: **casing**
July/August password: **platform**

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meeting is scheduled for May 15 (see Schedule of Events). The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



NCGS has selected **Joan Carter** as the winner of its 2002 competition for Excellence in the Teaching of Natural Resources in the Earth Sciences. She is a science teacher at Branham High School in San Jose, California, and she will receive a \$500 award to use in her school's science program or to attend a science conference or seminar.

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Jack Meyer
503-226-4211 ext. 4683



Luncheon meetings are usually held on the second Friday of the month (except June through September) at 1:00 p.m. at the Multnomah Athletic Club (1849 S.W. Salmon Street) in Portland. The next meeting is scheduled for May 20 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Shelley Thomas** at 503-848-2947 or **Jack Meyer** at 503-226-4211 ext. 4683.



NWEA members **Bob Deacon**, **George Sharp**, and **Jack Meyer** are co-chairing an NWEA/PS-AAPG symposium at the 2002 Cordilleran Section meeting of the Geological Society of America, which will be held May 13-15 at Oregon State University in Corvallis. See terra.geo.orst.edu/users/gsa2002 or contact Jack Meyer at h2m@nwnatural.com for details.

Sacramento Petroleum Association

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

Contact: Rick Blake
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The next meetings are scheduled for May 15 and June 19 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. If you are interested in speaking at future meetings, contact **Rick Blake** at 925-422-9910.



SPA welcomes its new President, **Rick Blake**, who will serve with Vice President **Marc Brennen** and Secretary/Treasurer **Pam Ceccarelli**. Rick is a geologist with Lawrence Livermore National Laboratories.



Join the California Natural Gas Producers Association and SPA for their First Annual Joint Golf Tournament on May 3. The event, which will include a four-man scramble (individual and team registrations are welcome) and buffet dinner, will be held at the Yolo Fliers Club in Woodland. For information about registration or sponsorship opportunities, contact **Karen Smith** at 916-859-4710.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Allen Waggoner
661-326-1112



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meetings are scheduled for May 14 and June 11 (see Schedule of Events). The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact **Mike Richey** at 661-392-2278.



AAPG President **Robbie Gries** will be the guest speaker at the May 14 SJGS meeting (see page 4.)

SCHEDULE OF EVENTS

PACIFIC SECTION AAPG & AFFILIATED GEOLOGICAL SOCIETIES MAY & JUNE 2002

May 13-15 — NWEA/PS-AAPG Symposium at GSA Meeting

Theme: Unraveling the Tertiary Stratigraphy and Structure of the Pacific Northwest and Its Implications for Hydrocarbon Occurrence and Underground Gas Storage

Location: Corvallis, OR

See page 7 for contacts.

May 14 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speaker: Robbie Gries (AAPG President)

Title: Thinking "Out of the Box"—The Role of the Geologist in Meeting Future Energy Demand

May 15 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA

Speaker: James Harrell (University of Toledo)

Title: Archaeological Geology in Egypt: Ancient Oil Wells and Mummy Bitumen, Earliest Geological Map, First Paved Road, Pyramid Temple Pavements, and the Sphinx Age Controversy

May 15 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: Rick Blake (Lawrence Livermore National Laboratories)

Title: The Geology of the South Oakley Gas Field and California's Largest Gas Well

May 18 — NCGS Field Trip

Leaders: Ron Crane (Consultant) and Craig Lyon (retired Chevron)

Topic: Structure and Geology of Mount Diablo

Contact NCGS for details.

May 20 — NWEA Monthly Luncheon Meeting

Location: Multnomah Athletic Club, Portland, OR

Speaker: James Harrell (University of Toledo)

Title: Archaeological Geology in Egypt: Ancient Oil Wells and Mummy Bitumen, Earliest Geological Map, First Paved Road, Pyramid Temple Pavements, and the Sphinx Age Controversy

**May 18-23 — Pacific Section Convention
(Joint Conference with Western Region SPE)**

Theme: Energy Frontiers: A 2002 Perspective

Location: Sheraton Anchorage Hotel, Anchorage, AK

See www.aapg-spe-2002.org for details.

May 21 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speaker: Joseph M. Saenz (Minerals Management Service)

Title: Geological Controls of Hydrocarbon Seeps in Santa Maria Basin, Offshore California

May 23 — LABGS Monthly Luncheon Meeting

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

Speaker: Eugene Fritsche (Prof. Emeritus, California State University, Northridge)

Topic: K-T Boundary Impact Breccia from the Chixulub Impact Crater

June 11 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA

Speaker: Mike Clark (ChevronTexaco)

Topic: TBA

June 18 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA

Speaker: J.P. Chauvel (retired Unocal)

Title: The Historic Sulphur Mountain Oil Tunnels

June 19 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: Don Gautier (U.S. Geological Survey)

Title: The Perilous Geography of Petroleum

June 20 — LABGS Monthly Luncheon Meeting

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

Speaker: TBA

June 21-23 — Dibblee Geological Foundation Field Trip

Location: Santa Cruz Island

Leaders: Tom Dibblee, John Minch (Dibblee Foundation), and Peter Weigand (California State University, Northridge)

See www.coastgeologicalsociety.org for details.

UPCOMING EVENTS

- July 17 • SPA Monthly Luncheon Meeting
- August 21 • SPA Monthly Luncheon Meeting
- September • NWEA Symposium (Bend, OR)



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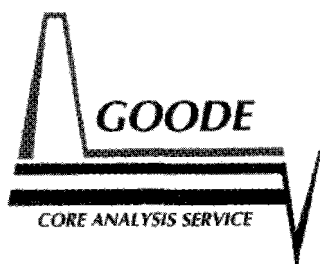


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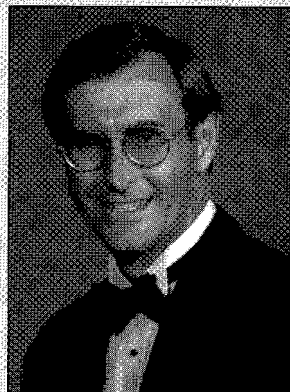
Donald Dean Clarke
AAPG DISTINGUISHED SERVICE AWARD WINNER

CITATION: To Donald D. Clarke, in recognition for his visionary leadership, creativity and accomplishments in representing AAPG at all levels, and for introducing earth science to the general public.

Don Clarke, a third-generation Californian, was born in Los Angeles and spent his formative years in nearby Canoga Park, where Don's father tested rocket engines for Rocketdyne. The son of a "Rocket Scientist," Don grew up curious about both planetary and terrestrial geology, and he was introduced to geology by Sterling Pryor, his junior high science teacher. He graduated in 1972 with a B.S. in Geology from California State University, Northridge. In 1972, while at CSUN, Don met his wife, Cynthia. Married in 1975, they have one daughter, Holly.

Don joined the California State Lands Commission in 1974 to work on the Wilmington Oil Field in Long Beach. In 1981, he moved to the City of Long Beach's Department of Oil Properties, and he is currently the City's Division Engineer overseeing a professional staff working with the State Lands Commission and the field's contractors. Don is an expert on the Wilmington Field, sequence stratigraphy, computer mapping techniques, and geological hazards, with more than 50 papers on these subjects.

The President of Los Angeles Basin Geological Society from 1996 to 2001, Don single-handedly kept it alive as majors left the L.A. Basin. For the Pacific Section AAPG, Don has served on committees, stood for office, and chaired two successful conventions in 1993 and 2000. The latter was the first time SPE and AAPG co-hosted a convention, requiring exceptional diplomacy to ensure its success. Don is currently on the AAPG Advisory Committee, has served in the AAPG House of Delegates since 1988, has served on several standing



committees, and was a candidate for AAPG Treasurer and HOD Chair.

Don's community involvement includes serving as Vice President of the Thomas Dibblee Geological Foundation, Director for Studies of Los Angeles Basin Subsurface Geology, Member of the National Research Council Committee on Preservation of Geoscience Data, on the CSUN Earth Science Curriculum Review Board, and on several local educational boards. Don gives lectures, recruits speakers for community organizations, leads oil field tours for community groups, and teaches geoscience classes at Compton Community College introducing geology to inner city youths. He was active in the Long Beach Grand Prix for 17 years.

Don is well known for his vision, drive, leadership, creativity, intensity, and sheer energy. He has served AAPG with distinction at all levels. He has introduced geology to students and the community while firing their imaginations with his love of geology. His accomplishments have earned him this honor, but his flair and personality make it a pleasure for AAPG to present him this award.

—Robert L. Countryman, Citationist

Editor's note: The AAPG Distinguished Service award was presented to Don Clarke at the 2002 AAPG Annual Convention in Houston. Congratulations, Don, and thank you for your outstanding service!

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Purchase at www.utahgeology.org		
<u>MISCELLANEOUS PUBLICATIONS SERIES</u>		
MP 11 Proceedings of the North Slope Seminar, Palo Alto, CA: 1965, W. Adkinson & M. Brosge, USGS (eds.)	2.00 _____	1.00 _____
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NOTE: ALL ORDERS MUST BE PREPAID

API Charity Golf Tournament

The San Joaquin Valley Chapter of the American Petroleum Institute will hold its 53rd Annual Golf Tournament and BBQ on May 3 in Bakersfield. Golfing will be at the Rio Bravo (\$70), Stockdale (\$70), and Kern River (\$50) courses, and the BBQ (\$15) will be at Strambler Park (adjacent to Sam Lynn Ball Park). Tee times will include shotgun starts at 7:00 a.m. and noon, and the BBQ will be at 5:30 p.m. There will be over \$5,000 in golf awards and raffle prizes. Proceeds fund local student scholarships and community activities such as Math Counts, Derricks to Desks, Community Energy Night, Adopt-A-Highway, the Beale Library, Kern County Science Fair, and Kern County Museum. Entry forms and BBQ tickets may be obtained by contacting **George Gray**, Chairman, at 661-831-5681.

Volunteer Geologist Program

Philmont Scout Ranch in the southern Sangre de Cristo mountains of northern New Mexico—one of three national high adventure bases of the Boy Scouts of America—is seeking volunteer geologists to work in backcountry camps for their 2002 summer season. Volunteers share their geological expertise with the scouts (enthusiasm is more important than a detailed knowledge of Philmont geology), live in staff housing (tents or cabins), and eat meals at the backcountry camps with the Philmont staff. Volunteers have a choice of three camps (French Henry, Baldy Town, Cyphers Mine) for their one-week stay, and a second week is subject to availability. A total of 36 spots are available for this summer's program, which begins June 16 and ends the week of August 11. For information, contact **Ed Warner** at 720-904-0560 or ewarn@ix.netcom.com.

CIPA Annual Meeting

The 26th Annual Meeting of the California Independent Petroleum Association will be held May 30-June 2 at the Laguna Cliffs Marriott Resort in Dana Point. It promises to be the largest gathering of oil and gas producers in the West, with plenty of networking, entertainment, and a great speaker agenda. For information, see www.cipa.org or contact **Janet Soule** at 916-447-1189 or jsoule@cipa.org.

Interactive Online Learning

AAPG announces Interactive Online Learning in association with the American Geological Institute and the Bureau of Economic Geology at The University of Texas at Austin. This web-based online training is available now.

There are 15 individual modules currently available for geoscientists and engineers. These modules are game-based, self-contained studies. The modules lead a student through the material in approximately 1.5 to 2 hours. The training approach is termed a guided investigation of the data. Each module includes some concisely stated background information that sets the stage for an exercise. Additional in-depth information and references are also available on demand. Most of the modules use data from the same field (Stratton Field in South Texas, which has a fluvial depositional environment) for continuity between the modules.

These interactive courses are optimized to work over a 56K modem connection with Windows, Macintosh, or other systems that support Java on Netscape Navigator/Communicator or MS Internet Explorer. To learn more, go to www.aapg.org and click on *Interactive Online Learning*.


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**Visit the Pacific Section AAPG
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American Association of Petroleum Geologists**

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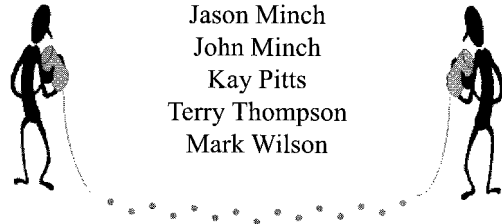
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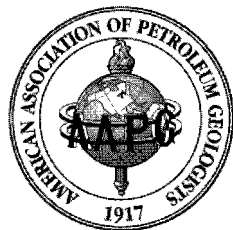


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PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



Pacific Section
American Association of Petroleum Geologists

Newsletter of the Pacific Section AAPG

July & August • 2002

MESSAGE FROM THE OUTGOING PRESIDENT

We have just wrapped up our annual convention, which was held in Anchorage, Alaska. This year's meeting was the second joint convention to be held with the Western Region SPE (the first was in Long Beach, California, in 2000).

More than 650 registrants enjoyed an outstanding technical program coupled with short courses, field trips, and the Keynote Luncheon. Highlights included:

- A field trip to the Kuparuk oil field on the North Slope, generously sponsored by Phillips and BP Alaska
- Core workshops at the Bayview core storage facility
- SPE and AAPG paper and poster sessions, featuring the latest in technology coupled with forward-looking views of oil and gas potential in the Arctic
- One of the best exhibitor displays in recent years
- The Keynote Luncheon, featuring this year's Honorary Life Membership Award recipients, **Henry Walrond** and **Thomas Marshall**
- Outstanding side trips, including the train/boat trip to Seward

Preliminary results indicate that the joint meeting was a technical and financial success. Much of the thanks are due to the convention co-chairs, **David Hite** and **Barbara Holt**, for assembling an outstanding convention committee comprised of both engineers and geologists who were eager to show off all that Alaska has to offer.

Convening joint meetings of AAPG and SPE is rapidly becoming the standard in the industry. Representatives from the Eastern Section AAPG were on hand to see how the idea works, and plans are underway for future joint meetings—including next year's Western Region SPE/Pacific Section AAPG convention to be held again in Long Beach.

In closing, I would like to say that it has been my pleasure to serve as President of the Pacific Section this last year. As I mentioned in my incoming message last July, this organization runs very effectively through the efforts of your Executive Committee and our Standing Committees. I would like to personally thank **Kay Pitts** (Past President), **Bill Long** (Vice President), **Steve Sanford** (Secretary), **Harold Syms** (Treasurer), and **Cathie Dunkel** (Newsletter Editor) for their energetic assistance. In addition, thanks go to **Mark Wilson** (Pacific Section AAPG Foundation), **Bob Lindblom** (Honors and Awards), **Muriel Norton** (Finance and Budget), **Bob Countryman** (Membership), **Terry Thompson** (Youth Activities), and **Mel Erskine** (2001 Field Conference) for his wise counsel, and last, but not least, **Larry Knauer** (Publications). And now, I turn you over to our incoming President, **Tom Hopps**, who has exciting plans for our Section in the coming year. Best Wishes To All!!!

—Allen Britton, Past President, Pacific Section AAPG

MESSAGE FROM THE INCOMING PRESIDENT

Filling Their Shoes

On behalf of all of the members of Pacific Section AAPG, I would like to extend a heartfelt thanks to the 2001-2002 Executive Committee for taking their turn at the helm and for a job exceptionally well done. **Allen Britton, Bill Long, Steve Sanford, Harold Syms, Kay Pitts, Cathie Dunkel**, and representatives from the local geological societies kept us on course while expanding both achievements and membership of the Section. Together with the Standing Committee chairs **Bob Countryman, Larry Knauer, Mark Wilson, Muriel Norton, Tom Wright, Bob Lindblom**, and **Donna Thompson**, they have delivered to the 2002-2003 Executive Committee a financially sound and smoothly running organization. I would also like to thank all those who have stood for election. The participation of these people, elected or not, is what enables the Pacific Section to continue to support its membership—to provide publications, meetings, and educational and community outreach programs. Their generous service helps us all to do a better job.

Thanks are also due the Alaska Geological Society and **David Hite**, who co-chaired the exciting and very successful 2002 convention with **Barbara Holt** and the Western Region SPE. We'll be back! Finally, congratulations to **Henry Walrond** and **Tom Marshall**, who were justly awarded Honorary Life Membership at this meeting.

I happily extend a warm welcome to your incoming Executive Committee; we have big shoes to fill and are looking forward to the challenge. President-Elect **Allen Waggoner** will be coordinating our 2004 convention at a location soon to be determined. Vice President **Steve Sanford** will also be helping

Continued on page 2

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Filling Their Shoes

Continued from page 1

with the 2004 convention in addition to his primary assignment of community outreach. As Secretary, **Jon Schwabach** will be keeping us organized and reminded of our action items. Thankfully, **Harold Syms**, Treasurer, and **Cathie Dunkel**, Newsletter Editor, have agreed to continue their extraordinary service for another year. **Allen Britton**, Past President, will provide us with the wisdom of experience. Working with this committee, **Dalton Lockman** will co-chair the 2003 convention in Long Beach with **Sam Sarem** of the SPE.

We look forward to continuing the excellent programs emplaced by prior Executive Committees, with a special focus on data preservation. You may read more about this project of national interest in the article entitled "Geoscience Data Preservation" in this newsletter and in articles in the June 2002 issue of *Geotimes*. In addition, we will focus significant effort on education over the next twelve months. I envision approaching this challenge on four fronts:

1. Bring geology into more classrooms. We are exploring ways that the Pacific Section can facilitate classroom visits by its membership. This may include coordinating programs with schools and providing talk suggestions and data for visiting geologists. **Don Clarke** in Los Angeles has offered to advise us in this undertaking. He has been bringing his enthusiasm about geology into classrooms on a regular basis for many years.

2. Provide information we can use to better respond to questions to help educate the public about the petroleum industry as it is today. This effort will consist of informative articles published in this newsletter that we, as members of the industry, can use to inform and help dispel misconceptions. Look for the article "Offshore Santa Barbara County Oil Seeps" provided by Venoco, Inc. in this issue. The September-October newsletter will include what we anticipate to be the first of several articles from the California Independent Producers Association (CIPA). We expect to engage others to provide similar articles.

3. Share information about programs and activities of the local societies to help us all improve our own societies. One or more societies will be highlighted in each newsletter. In this issue, check out the outstanding support the Coast Geological Society provides for local college-level geology and earth sciences students and teachers.

4. Reeducate many of our local companies about the benefits they derive from actively supporting the Pacific Section. Financial support is important, but equally important is the drafting and publication support companies have provided in years past. With the consolidation of so many companies and downsizing of drafting/graphics staff, this support is difficult to find. This has led to, among other things, a large backlog of correlation sections that need to be drafted.

The accomplishment of these goals will be challenging, but it is definitely within our grasp. However, their success will depend upon the efforts of each one of us. Please find some time to contribute to this effort. Please contact me or any member of the Executive Committee to volunteer or enthusiastically respond when asked to serve.

—*Tom Hopps, President, Pacific Section AAPG*

NWEA/AAPG Session at GSA Meeting

Bob Deacon, George Sharp, and Jack Meyer co-chaired the Northwest Energy Association/AAPG session at the Cordilleran Section meeting of the Geological Society of America in Corvallis, Oregon, in mid-May. The session, "Unraveling the Tertiary stratigraphy and structure of the Pacific Northwest and its implications for hydrocarbon occurrence and underground gas storage," had an excellent group of speakers. Rocks, projects, and economics from the California border to the Canadian border were discussed by those doing the work. It was attended by 60 to 80 people—a pleasant surprise considering there is so little activity in Oregon and Washington and the GSA meeting was non-industry. (The size of the audience gave flashbacks to the "boom!") The session was dedicated to **Al** and **Wendy Niem**, who recently retired from Oregon State University; it was an opportunity for the NWEA to express appreciation for the Niems' contributions to the Association over the years.

—*Jack Meyer, Past President, NWEA*

2002 Dibblee Medal

Dr. R. Gordon Gastil will be presented the 2002 Dibblee Medal for his outstanding contributions to the science of geology and geological field mapping at an event hosted by the San Diego Association of Geologists at the Chula Vista Nature Center on San Diego Bay on August 21, 2002. In addition, the soon-to-be-released Mount San Antonio Quadrangle will become the Gordon Gastil Honorary Map. Supporters have a three-fold opportunity to: 1) honor Dr. Gastil for his outstanding field mapping, 2) help publish Dibblee Maps of California geology, and 3) be personally recognized for contributions on the Mount San Antonio Quadrangle map and at the medal presentation ceremony. Individual contributors of \$500 and corporate contributors of \$1,000 will be acknowledged on the printed map. A list of all contributors will be artfully presented to Dr. Gastil at the meeting. Your contribution or pledge would be appreciated. For more information, contact **John Minch** at 949-367-1000 or jmainc@earthlink.net, or visit the Dibblee Pages at <http://dibblee.geol.ucsb.edu/>.

DIBBLEE MEDALISTS

1994	Dr. Lehi F. Hintze
1995	Dr. Peter D. Rowley
1996	Mr. John (Jack) G. Vedder
1997	Mr. Parke D. Snavelly, Jr.
1998	Dr. Clarence A. Hall, Jr.
1999	Mr. F. Bartlett (Bart) Ekren
2000	Dr. Thomas A. Steven
2001	Mr. William P. Brosge
2002	Dr. R. Gordon Gastil

—*John Minch, Editor, Dibblee Geological Foundation*

Thanks for the memories . . .



The Pacific Section AAPG Executive Committee would like to extend our most sincere thanks to **David Hite** and the **Alaska Geological Society** for putting on a terrific convention in Anchorage. After a 17-year hiatus, the Pacific Section AAPG annual meeting was once again hosted by AGS, and they did a superb job of lining up interesting and informative field trips, short courses, and technical presentations. The exhibit hall was full of exhibitors and conventioners. The atmosphere of the meeting was nearly as warm as the fabulous weather the locals drummed up for us.

We also want to extend our appreciation to the sponsors of the meeting, especially:

BP Exploration (Alaska) Inc.

Phillips Alaska, Inc.

Baker Hughes

Schlumberger

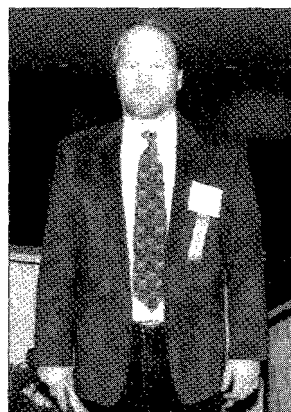


In good hands (left to right): **David Hite** (Pacific Section AAPG General Co-Chair) and **Frank Carini** (Site Chair).

Convention photographs courtesy of Allen Britton, Cathie Dunkel, Larry Knauer, Nina Lian, and Harold Syms.



Baker Hughes, a major sponsor, had an extensive exhibit at the convention.



Bob Swenson (AAPG Program Co-Chair) assembled an excellent technical program.



Jennifer Petersen (Registration Coordinator), in her favorite corner, registered high marks from all.



David Hite with some of the many volunteers at the registration booth.

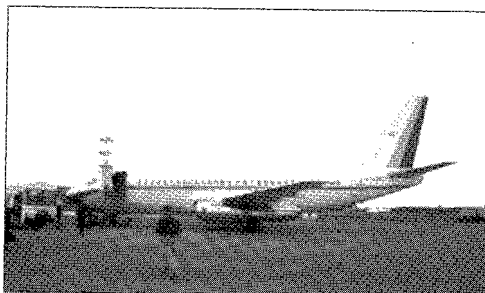


Convention committee members enjoying the Keynote Luncheon. Seated (left to right): **Doug Dickey** (Advertising Coordinator), **Greg Wilson** (AGS President-Elect), **Peter Johnson** (Publications Coordinator), and **Becky Watson** (Editor). Standing (left to right): **Frank Carini** (Site Chair) and **Chet Paris** (Luncheon Organizer).

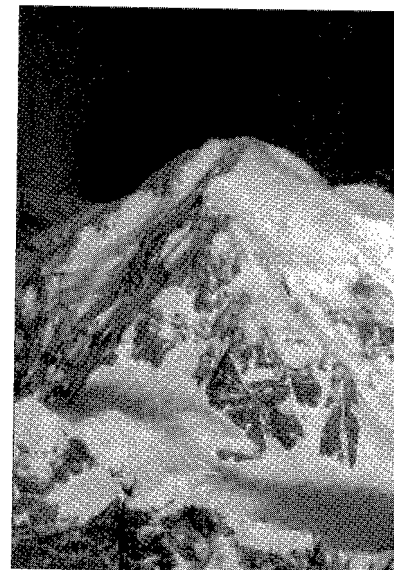
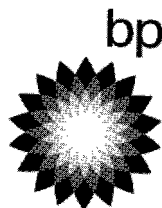


Kuparuk Field Trip . . .

Thanks to Phillips Alaska, Inc. and BP Exploration (Alaska) Inc. for hosting an outstanding field trip to the Kuparuk River Field on the North Slope.



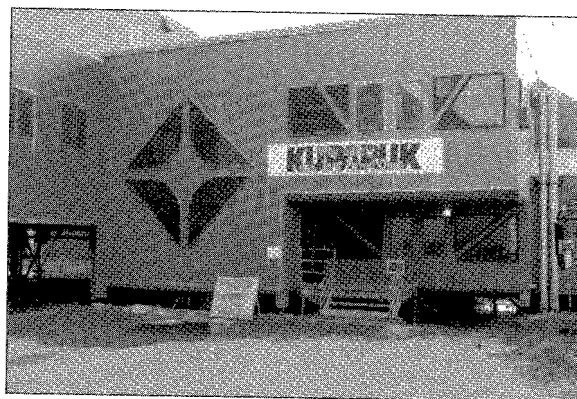
Participants flew from Anchorage to the North Slope aboard a Boeing 737, specially equipped to land at Kuparuk, the only gravel jetstrip in the U.S.



The flight from Anchorage to Kuparuk afforded extraordinary views of 20,320-foot-tall Denali (Mount McKinley), the highest peak in North America.



Pacific Sectioneers gather on the frozen Arctic Ocean. Standing (left to right): **Roupen Zakarian, Cynthia Huggins, Jaime Roig, Tracy Fleming-Reese, Dave Walter, Cathie Dunkel, and Kay Pitts.** Front (left to right): **Brian Pitts, Larry Knauer, and Allen Britton.**



Facilities at Kuparuk and elsewhere on the North Slope are elevated to prevent adverse effects on permafrost. (Note the ARCONian window, a remnant of days past.)

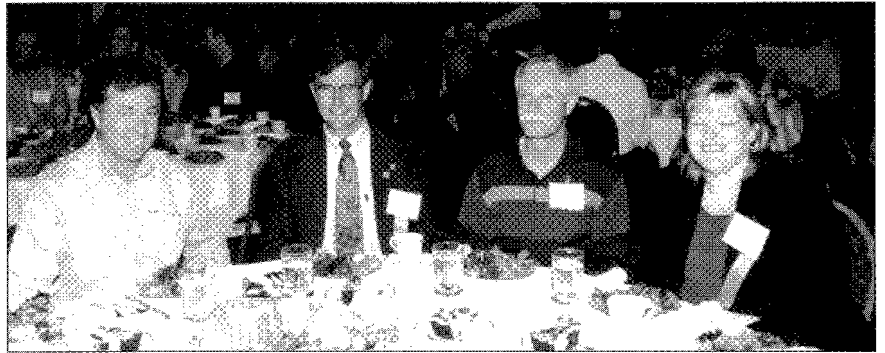


More geologists and engineers on thin Arctic ice.

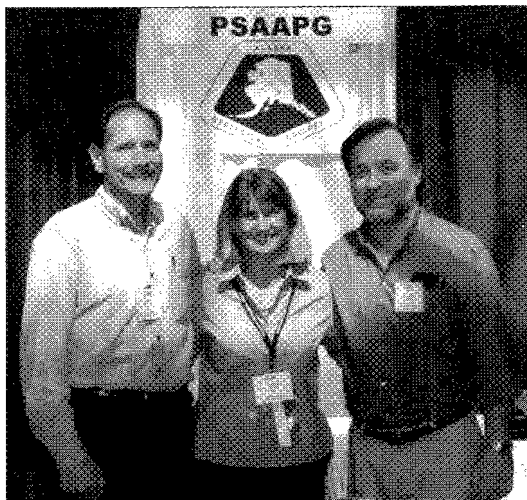
Conventioneers at large . . .



A Presidential duo: SPE Western Region Director **Joyce Holtzclaw** and Pacific Section AAPG President **Allen Britton**.



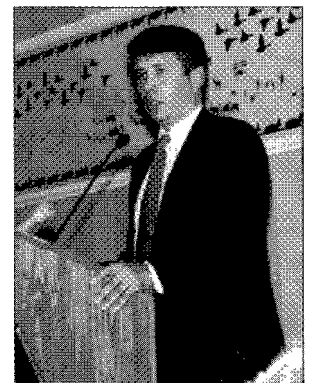
Enjoying Alaskan fare (salmon and chocolate moose) at the Keynote Luncheon (left to right): **Dave Shaffer, Don Clarke, Dave Walter, and Tracy Fleming-Reese**.



On display in the exhibit area (left to right): **Dalton Lockman, Joan Barminski, and Larry Knauer** at the Pacific Section AAPG booth.



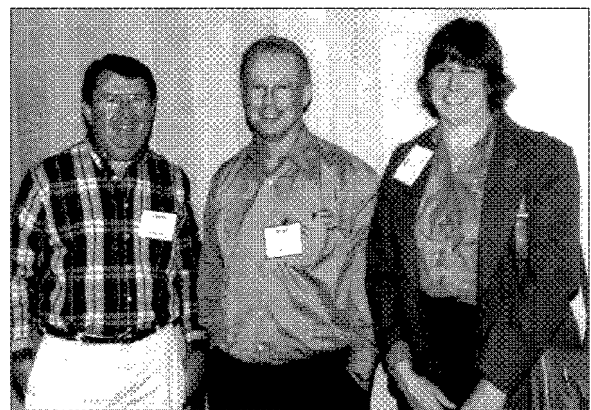
Another Presidential duo: AAPG President-Elect **Dan Smith** and AAPG President **Robbie Gries**.



Bennett Raley, U.S. Department of the Interior Assistant Secretary for Water and Science, presented the keynote address, discussing the Department's role in meeting energy challenges.



Boys from Bakersfield (left to right): **Henry Walrond** (Honorary Life Membership Award winner), **Bob Williams**, and **Phil Ryall**.



More of the Bakersfield gang: **Jaime Roig, Brian Pitts, and Kay Pitts** (Pacific Section AAPG Past President).



Award winners . . .

Martin Van Couvering Award

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

SEAN BEMIS
TODD DALLEGE
EMILY FINZEL
MIKE HAYES
MARGARETE JADAMEC
MICHELLE MCGEE

Distinguished Educator Award

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

DR. WESLEY K. WALLACE
 Professor • University of Alaska, Fairbanks



Pacific Section AAPG President Allen Britton and Wes Wallace

Teacher of the Year Award

The Pacific Section AAPG Teacher of the Year Committee has selected the winner of the 2002 Pacific Section AAPG Teacher of the Year Award winner:

CAROLYN STALLINGS
 White Cliff Elementary School • Ketchikan, Alaska

Carolyn Stallings is a lifelong resident of Ketchikan, Alaska. She graduated from Ketchikan High School and the University of Alaska, Southeast (receiving a Bachelor's of Education in 1990), and received a Master's of Education from Utah State University in 2001. She has been teaching grades 3, 4, and 6 in Ketchikan since 1990. She develops math and science curriculum in her school, and is a teacher-trainer through the University of Alaska in minerals, aerospace science, and archaeology. She is also a NASA S.T.E.L.L.A.R. Core Teacher.



Pacific Section AAPG President Allen Britton and Carolyn Stallings

to attend a NASA launch. They built a replica of the space shuttle's living quarters (complete with toilet facilities). Students will be living in this shuttle (teams of 2 that rotate on a regular schedule of 16-hour shifts). They will conduct experiments, eat, sleep, and exercise inside their craft.

This spring, her classes will explore the creeks of their neighborhood, learning about watersheds. The study will begin at the head of a creek and will follow it out to the ocean to study terrain, erosion, estuaries, and how sunshine (actually, it's the lack of rain—Ketchikan remember?) alters the water flow.

Carolyn is a proud mother of 26-year-old twins and the fiercely proud grandmother of two little boys. She loves to boat, hike, kayak, and travel. She and her husband are both strong believers in the process of educating children, living by the philosophy: "Get out of their way and they'll learn."

—Pacific Section AAPG Teacher of the Year Committee

"I am addicted to learning, hence why I'm a teacher. The kids are teaching me something NEW every single day. My 26 'professors' require a lot of attention, homework, and listening, plus they challenge me in ways that make my mind spin. They are always questioning—questioning—questioning!"

This year, Carolyn and her students are involved with space. They've been working and earning money throughout the year

A.I. Levorsen Memorial Award

The A.I. Levorsen Memorial Award is given by National AAPG in recognition of the best paper presented at each AAPG section meeting, with particular emphasis on creative thinking toward new ideas in exploration. The award is made at the section meeting for papers presented at the previous year's meeting, in this case the 2001 Convention in Universal City, California. The 2001 winner is:

MICHAEL J. RICHEY



Allen Britton and Mike Richey

3-D Modeling and Depositional Reconstruction of a Multi-Staged Turbidite System Within a Structurally Complex Basin: The Republic Sandstone Member, San Joaquin Valley, California

Michael J. Richey (ChevronTexaco, Bakersfield, California)

3-D modeling and depositional reconstruction of the Republic Sandstone Member of the Monterey Formation indicate that San Andreas Fault-derived deformation played a major role in the geometric and lithologic character of terrigenous-sourced, coarse-clastic turbidite sedimentation along the southwestern margin of the San Joaquin Basin during the late Miocene.

Outcrops and nearby subsurface data of the five sand lenses comprising the Republic Sandstone Member illustrate a near cross-sectional view of a developing sandy turbidite system. Sand deposition was restricted to a northwest-trending, anticline-bounded, asymmetric, intra-slope basin along the northeastern dipping western slope of the encompassing San Joaquin Basin. This sub-basin is one of many syndepositionally developed structures that collectively form the feature referred to as the Temblor Anticlinorium, believed to be the result of wrench tectonics associated with initiation of strike-slip plate motion along the San Andreas Fault 10 kilometers to the west.

To most accurately determine the influence of the sub-basin margin relief on sedimentation, 3-D surface-to-subsurface and depositional reconstruction models incorporating both structure and stratigraphy were developed. Initial models focused on defining the general architecture and terminal extent of the subsurface sand lenses. The orientation of the sand units within these models revealed offset stacking of the sand bodies to the northwest with time, suggesting that both vertical and horizontal development of an eastern basin margin coincided with sedimentation. 3-D resistivity (lithology) property models were developed to identify the internal architecture of individual sand units. Results showed overall thinning of sand units within the lenses and an increase in interfingering of sand units with the surrounding shale downslope.

Analyses of all models contradict previous workers' interpretations of the tectonic environment during sedimentation of the Republic Sand. Where it was once thought that the sub-basin exhibited only a confining to non-confining nature (accommodation space in-filling) throughout sedimentation, results illustrate a non-confining to confining to non-confining trend. This trend can best be explained by initiation of sedimentation prior to sub-basin margin development and the continuation of sedimentation through final margin development.

H. Victor Church Memorial Award

The H. Victor Church Memorial Award is given by the Pacific Section AAPG in recognition of the best poster presented at the Pacific Section meeting. The award is made at the annual section convention for a poster presented at the previous year's meeting, in this case the 2001 Convention in Universal City, California. The 2001 winner is:

RICHARD G. BLAKE

Coauthors: Charles M. Noyes and Michael P. Maley



Allen Britton and Rick Blake

Definition of Hydrostratigraphic Units Within the Alluvial Sediments at Lawrence Livermore National Laboratory

Richard G. Blake and Charles M. Noyes (Lawrence Livermore National Laboratory, Livermore, California), and Michael P. Maley (Weiss Associates Inc., Emeryville, California)

At Lawrence Livermore National Laboratory (LLNL) Superfund site, the properties of ground water flow were used to define a series of hydrostratigraphic units (HSUs) within a thick sequence of previously undivided, heterogeneous alluvial sediments. A methodology using multiple independent data sets was relied upon to define the hydrostratigraphic unit boundaries. The methodology employs an iterative process to minimize uncertainty in the correlations. Monitoring of the ground water system under stressed conditions during extraction well pumping and long-term pumping tests provided the most effective data set for identifying and verifying HSU boundaries. Hydrostratigraphic analysis identified low-permeability horizons within the alluvial sequence that exert significant control over ground water flow and contaminant transport. These geologic features, which inhibit vertical hydraulic communication and contaminant migration, form the boundaries of the HSUs. At LLNL, the HSUs generally consist of a hydraulically interconnected network of higher-permeability deposits set within finer-grained, lower-permeability sediments. By identifying the primary hydraulic controls within the LLNL alluvial sequence, a hydrostratigraphic framework consistent with ground water flow and contaminant transport processes was established. The HSU framework has allowed for the mapping of a complex network of co-mingled plumes, each of which can be traced back to their respective source areas. Ground water cleanup systems at the site have been designed to treat and capture individual contaminant plumes, and are optimized with respect to their location, geometry, and mobility. This has proven a successful strategy for implementing the ground water cleanup based on the site remediation history. Work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract W-7405-Eng-48.



Pacific Section AAPG Honorary Life Membership Award

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

HENRY WALROND
Consultant

THOMAS R. MARSHALL
State of Alaska (Retired)

Pacific Section AAPG Honorary Life Membership Award

HENRY WALROND

It is indeed a pleasure and honor to recommend Henry Walrond as an Honorary Life Member of the Pacific Section of American Association of Petroleum Geologists. Henry's career has focused on petroleum geologic studies in California, Oregon, Washington, and Alaska, but evaluations of worldwide exploration opportunities were also accomplished. He also has experience in farming and gold mining ventures.

Henry graduated from the University of Southern California with a Bachelor of Arts Degree in Geology in 1949, followed by a Master of Arts degree in 1951. His Master's thesis was on the "Geology of the Upper Santa Ynez Valley Area of Santa Barbara County." His elementary and high school studies were done in Fresno, California. He joined the U.S. Army Air Corps in 1943 and saw combat in World War II as a B-24 pilot flying out of Italy. During a bombing raid, Henry and his crew were forced to bail out over Yugoslavia. Fortunately, Tito's friendly guerrilla forces helped keep them out of enemy hands, and the entire crew made a safe return to Italy. This past year, he returned to Croatia to retrace the route he took out of Yugoslavia, ostensibly to look at the geology he somehow overlooked during the war.

His career includes assignments with General Petroleum Corporation (1950-54), Alco Farms (1954-57), Sunland Refining Corporation (1957-69), Norris Oil Company (1969-74), and work as a consulting geologist (1974-2002). As a consultant, he has worked with numerous petroleum companies including Arco, Quintana, Southern California Gas, Hunt, Temblor, Koch, Diatom, and Pyrenees. His oil and gas discoveries include new pools at Midway-Sunset, Newhall, South Cuyama, Southeast Riverdale, and Rosedale. Over his distinguished career, Henry has been responsible for drilling a number of exploration wells in almost all of the petroleum basins of California. During the 1980s, he and a small group of friends acquired mining leases in the Imperial Valley of California and sold them to Goldfields, Ltd. Those leases



Pacific Section AAPG President Allen Britton and Henry Walrond

currently form part of the Mesquite Mine, one of the largest gold mining operations in the southwestern United States. He is a dedicated and thorough field mapper and subsurface geologist who has a keen understanding of oil and gas entrapment. Henry authored a poster exhibit on the San Gabriel fault, and he and Jack Clare co-authored a provocative poster session concerning the amount of displacement along the San Andreas fault. He and Jack Clare also presented a paper on "The Government Pool of the Taylor Canyon Oil Field." Henry has made major contributions

to several Pacific Section AAPG regional cross-sections, was a former treasurer of the San Joaquin Geological Society, and has done numerous odd jobs and other work affiliated with our Section. The Pacific Section's 1963 Guidebook on the Salinas Valley owes much of its success to Henry, who co-authored the accompanying geologic map.

Henry's enthusiasm, knowledge and willingness to help other geologists are an admired fact by all those who know and associate with him.

He has lived and worked in Bakersfield since 1969 and has been an active member of the Pacific Section of AAPG for over 45 years. During his career he has tackled numerous geologic problems with an energetic can-do and enthusiastic approach. Aside from geology, his interests include family, friends, golf, literature and the arts, swimming, and woodwork. He annually plays in the AAPG golf tournament. His wife, Anne Marie, and their children, Carolyn, Kay, and Eric, are his fondest admirers and supporters. "Bon vivant Henry" is a mainstay to our group of FOFers (faithful old fellows) who get together for lunch on birthdays and other special occasions. Henry's career is by no means over. He continues to generate quality petroleum prospects, author papers, and perform detailed geologic studies.

This well-liked, hard-working, astute, cooperative geologist and good friend is most deserving of this recognition.

—Frank B. Cressy, Jr. and Nat H. MacKevett

Pacific Section AAPG Honorary Life Membership Award

THOMAS R. MARSHALL

Tom was born in Nebraska in 1925. He earned a degree in geology from the University of Colorado and then worked as an oil production worker, landman, and exploration geologist. In 1957, Tom read a magazine article about homesteading in Alaska and decided to move north. Tom was elected President of the Alaska Geological Society in 1959 and, in the fall of 1960, he began his service with the State of Alaska. He then served as the Executive Secretary of the Alaska Oil & Gas Conservation Commission from 1965 until 1978. In 1969, Tom was appointed Chief Petroleum Geologist in the Division of Mines and Minerals, Alaska State Department of Natural Resources (DNR), and served in that role until his retirement from State service in 1978.

Tom was instrumental in setting and enforcing environmental and performance standards for the infant oil and gas industry in Alaska. He wrote and reviewed the State's first pool and field rules, which guided early oil and gas operations and reservoir management. When a company failed to meet State drilling standards, Tom called their performance bond and sent a message to other operators. It was Tom who first ordered operators in Cook Inlet to install deck drains on production platforms to prevent oil residue from washing into Cook Inlet. He also wrote Conservation Order 32, the first to direct a Cook Inlet operator to preserve valuable natural gas.

Without question, the most notable of Tom's contributions



Pacific Section AAPG President Allen Britton and Tom Marshall

to the State of Alaska came during his tenure as a land selection officer with the DNR in the early 1960s. The Alaska Statehood Act empowered the state to transfer millions of acres of land from federal to state ownership. In 1961, relying on his knowledge of regional geology and his practical oil field experience, Tom recommended that an undrilled strip of land comprising 1.5 million acres on the Arctic coast be selected. This strip of coastal land included an area called Prudhoe Bay. Many in the DNR and the Legislature opposed Tom's selection, labeling it "Marshall's

Folly," but Tom persevered. Initially, the federal government refused the selection, saying it would be easier for them to manage federal land if it remained compact in neat, square blocks. Tom argued that neat, square blocks were unlikely to result from the land disposal process. Finally, officials with the Bureau of Land Management relented, allowing the Prudhoe Bay selection to be approved. In the end, regional geology, oil field analogs from the Rocky Mountains, some practical oil field experience, and a great deal of luck won out. The coastal strip was selected in time to clear the land title before land claim settlement controversies froze all selection activity for many years. Prudhoe Bay eventually became the source of great wealth and, thanks to Tom, part of the wealth flowed to the State and people of Alaska.

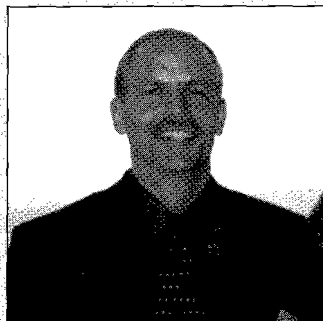
—Gerry Van Kooten

Special Recognition Award

In recognition of outstanding service as the General Chairman of the 2001 Convention in Universal City, California, the Pacific Section AAPG presents a special token of appreciation to:

JEFF SHELEBARGER

ChevronTexaco • Bakersfield, California



Special Recognition Award

In recognition of outstanding service as the General Co-Chairs of the 2002 Convention in Anchorage, Alaska, the Pacific Section AAPG and Western Region SPE present a special token of appreciation to:

DAVID HITE

Consultant
Anchorage, Alaska

BARBARA HOLT

BP Exploration (Alaska) Inc.
Anchorage, Alaska



NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska Geological Society

www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



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

Coast Geological Society

www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Bob Orlando
805-656-4677



Dinner meetings are usually held on the third Tuesday of the month (except July and August) at the American Legion Hall (83 S. Palm 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 \$12 (with reservation), \$17 (without reservation), or \$7 (students and K-12 teachers); the talk is free. The next meeting is scheduled for September. For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.

Los Angeles Basin Geological Society

c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: Dalton Lockman
323-298-2242



Luncheon meetings are usually held on the third or fourth Thursday of the month (except July and August) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meeting is scheduled for September. The cost is \$17 or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



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

Northwest Energy Association

www.nwenergyassociation.org

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

Contact: Jim Jackson



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



NWEA welcomes its new officers for the 2002-2003 term: **Jim Jackson** (President), **Ron Gullberg** (Vice President), **Melanie Harmon** (Secretary), and **Todd Thomas** (Treasurer). Newly elected NWEA directors (three of six are elected every year) are: **Dennis Olmstead**, **Sam Brown**, and **Bill Rodgers**.

Sacramento Petroleum Association

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

Contact: Rick Blake
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The next meetings are scheduled for July 17 and August 21 (see Schedule of Events). The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. If you are interested in speaking at future meetings, contact **Rick Blake** at 925-422-9910.



SPA has a membership list, which is available free of charge. If interested, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consrv.ca.gov.

San Joaquin Geological Society

www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: Jaime Roig
661-665-5942



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meeting is scheduled for October 8. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.



SJGS welcomes its new officers, who will begin their 2002-2003 term in early July: **Jaime Roig** (President), **Cynthia Huggins** (President-Elect), **Mike Richey** (Vice President), **Mike Minner** (Treasurer), and **Amie DiUlivo** (Secretary).



The 2002 Annual SJGS Fall Golf Outing and BBQ will be held on September 6 in Bakersfield. Tee times will be in the morning, and the cost will be \$40 (golf, cart, lunch, prizes; RSVP). The barbecue will be at 5:00 p.m. at the Kern County Museum Oil Exhibit Area, and the cost will be \$15 (RSVP). For more information, contact **Mike Richey** at 661-392-2278 or michaelrichey@chevrontexaco.com.

SCHEDULE OF EVENTS

Most Pacific Section AAPG societies do not hold meetings during the summer months, so there are few events to report.

JULY & AUGUST 2002

UPCOMING EVENTS

July 17 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: Mike Heckathorn (Trident Environmental & Engineering, Inc.)

Title: Environmental Site Assessments for Gas and Oil Facilities Real Estate Transactions

August 21 — SPA Monthly Luncheon Meeting

Location: Hungry Hunter Restaurant, Sacramento, CA

Speaker: TBD*

September 6

September 22-24

October 8

October*

Fall*

• SJGS Fall Golf Outing and BBQ

• NWEA Symposium (Bend, OR)

• SJGS Monthly Dinner Meeting

• NCGS Field Trip (Hayward Fault Trench)

• NCGS Field Trip (Rogers Creek/Maacama Fault Zones)

*Tentative or to be determined

Access this newsletter online at www.psaapg.org

July/August password: **platform**
September/October password: **mudlog**

Offshore Santa Barbara County Oil Seeps

More natural gas seeps through the sea floor near Coal Oil Point and the University of California Santa Barbara than almost anywhere else on earth. For thousands of years, the local ocean and beaches have smelled of hydrocarbons and glistened with the sheen of seeping oil. It is estimated that there is enough oil under the ocean to seep for tens of thousands of years to come.

Ozone results when seep gas reacts with the air. Recent studies show the volume of gas from all the seeps in Santa Barbara Channel to be about 5,000,000 cubic feet per day. That makes the seeps the largest natural source of air pollution and equivalent to twice the on-road traffic pollution in the county.

Some oil is attached to each gas bubble; most oil, however, comes from other seeps and ends up as small tar balls on the beach. Research by the Institute for Crustal Studies shows up to 7,140 gallons of oil seeps each day, or as much as 2,600,000 gallons a year.

In 1982, ARCO set two large (350 tons each with a 100-by-100-foot base), steel pyramids (called "seep tents") on the sea floor over the greatest concentration of gas seeps. Venoco now maintains those tents. Each day about 500,000 cubic feet of gas is captured by the tents. [From the above paragraphs, this volume of gas equates to removing natural air pollution equivalent to about 20% of that produced by Santa Barbara County's vehicular traffic. —Editor] This gas is sent onshore by pipeline, processed at the Ellwood processing facility, then sold to the Gas Company for local use in homes and commercial operations.

Venoco's Platform Holly is uniquely situated—no other California platform is located in such a large natural seepage area. Even more unique is the link between the main producing formation and the surrounding natural seeps—both come from the Monterey Formation. As Platform Holly's cumulative production from this formation has increased over the years, the natural seeps have steadily decreased. Those decreases have been dramatic—80% within half a mile from Platform Holly and 50% within 1 mile. As a result of producing this field, it is estimated that 1,000,000 cubic feet of seep gas PER DAY no longer seeps into Santa Barbara air.

—Courtesy Venoco, Inc., Carpinteria, California
(www.venoco.com)

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

Development – Thermal EOR – Property Reviews

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Geoscience Data Preservation

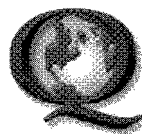
The National Research Council (NRC) Committee on the Preservation of Geoscience Data and Collections has concluded a major study, which is documented in an April 2002 report, "Geoscience Collections and Data: National Resources in Peril."

The report documents the value of geoscience data for assessment and management of natural resources, geologic hazards assessment and mitigation, and understanding of the history of earth and life. The Committee demonstrates that these data are at risk and recommends steps to assure preservation of critical geoscience data.

The NRC suggests that AAPG, through the standing committee on preservation of cores and samples, and others, can play an important role in publicizing the conclusions and recommendations of this report and stimulating core preservation action. Some possible mechanisms are:

- Articles in *Geotimes* (planned for June 2002 issue) and AAPG Explorer (planned).
- Panel session on "Core Repositories—Recent Studies, Status and Future Trends" at the 2002 Annual Meeting of the Association of American State Geologists in June. (Edie Allison will be representing AAPG.)
- Workshop, including all stakeholders, on next steps to respond to the report, hosted by AAPG and AGI.
- Bob Sneider plans to initiate one-on-one meetings with Technology Vice Presidents of majors and large independent oil companies on the core preservation report.
- Distinguished lecturer on core preservation (Bob Sneider volunteers).
- Archie Conference and post-conference Archie publication on core analysis methodology and case studies.
- Establish an AAPG award and other form of recognition for outstanding contributors to the preservation and accessibility of geoscience data and collections. (This is a recommendation of the NRC to all geoscience organizations and professional societies.)
- Participate in developing standards for citation in scientific and other publications of geoscience data and collections used.
- Provide expertise to external science-advisory boards to advise Federal agencies and regional repositories.

—Excerpted from summary report by Edith Allison, Chairman,
AAPG Committee for the Preservation of Cores and Samples



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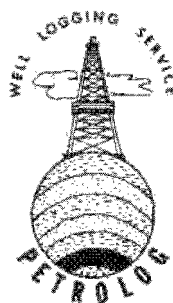
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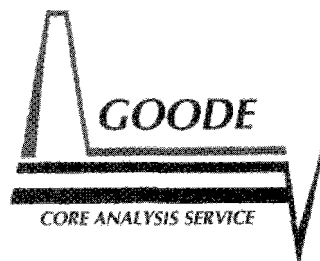
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New & Reinstated Members


Raul Esperante, *Geoscience Research Institute*, Loma Linda, California
Paul A. Gutierrez, *Halliburton Energy Services*, Bakersfield, California
Kimberly S. Holland, *Geomatrix Consultants*, Costa Mesa, California
Stephen E. Jacobs, Carlsbad, California
Elaine Kennedy, *Geoscience Research Institute*, Loma Linda, California
Mindy E. Rigney, *Waterstone Environmental*, Long Beach, California
Carol B. Willis, *Signal Hill Petroleum Inc.*, Long Beach, California

Transitions

Ted Bear is convalescing at home after suffering several strokes in March 1999. Apparently the doctors who gave him less than a five-percent chance to survive were unaware of what a tough old bird he is. Ted had surgery to repair some of the damage and, although he is generally confined to a wheelchair now, he still has the famous Ted Bear smile and twinkle in his eyes; in July 2000, he danced at his son's wedding (receiving a standing ovation). Ted is an Honorary Member of Pacific Section AAPG, having been a member for 56 years. He was President of Pacific Section in 1967 and President of AAPG during 1984-1985. For those who would like to send him a card, his address is 21 Glen Echo, Dove Canyon, California 92679. —*Tom Hopps*

Bill Guerard, California State Oil and Gas Supervisor, has announced his retirement will be September 30, 2002. As of May 31, 2002, he is practicing retirement by vacationing until his official retirement date. Plans for a September 27, 2002, luncheon are underway and will be announced in the Sacramento Petroleum Association Newsletter. —*June 2002 SPA Newsletter*


WELL INFORMATION AND INSTRUMENTATION



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Mark Pahler
 Operations Coring Coordinator



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In Memory

Memorial articles and photographs may be sent to the editor by family or friends of Pacific Section AAPG members. Materials are subject to revision to accommodate newsletter space constraints and will be returned upon request.

HOWARD STARK (1923-2002)

Howard Everett Stark died January 14, 2002, after a long battle with Parkinson's disease. A native Californian, born in Los Angeles on June 14, 1923, he grew up in Ontario, California. After graduating from Chaffey High School, Howard enrolled at the University of California at Berkeley as an engineering major. However, with the country embroiled in World War II, he soon entered the military and became an Army Air Corps pilot, serving in the European Theater from 1943 to 1945. Following the War, he returned to his wife, Jean, and a new daughter, Susan, whom he had never met.



He returned to school as one of the flood of World War II veterans who entered college on the G.I. Bill in 1945-1946. At Pomona College in Claremont, California, Howard quickly fell under the spell of the legendary geology teacher A. O. ("Woody") Woodford and decided to take up geology as a career major before the summer of 1946. There, he became a leader of an exceptional group of contemporary students, including Homer Simmons and Jim Taylor (Shell); Bob Yerkes (USGS); Joe Ernst, Frank Goodban, and Jesse Parsons (Texaco); John Forman (General Petroleum); plus Chuck Kundert, Jim Richmond, and Thane McCulloh. Taught by Woodford and John Shelton, he also received valuable mentoring from Jack Schoellhamer, Frank Olmstead, and Jack Vedder (all of whom spent later careers with the USGS). However, the real learning took place in the stimulating competition of the exceptional student groups, in and out of formal classes, and these students learned much more from each other than from lectures or formal laboratory sessions.

Howard received his B.A. degree (Geology) in 1950. He then continued his training under Woodford and others at Claremont Graduate School, where he received an M.S. degree in 1949 on the basis of a study of the paleontology and stratigraphic setting of a deformed Plio-Pleistocene sequence in the northeastern Whittier Hills (Los Angeles basin). Never formally published, his thesis is a landmark nonetheless and has been widely used.

Howard exhibited the same outstanding qualities during his student years that those who met him later came to expect. Enthusiastic, energetic, and exuberant, always outgoingly friendly, hard working, and honest--these are some of the adjectives that come immediately to mind. He took a strong early interest in fossils and stratigraphic aspects of geology, and he developed early a love for field geology.

After completing his academic training, Howard reported to Shell (with Homer Simmons) in 1949 for advanced on-the-job training, mostly in Texas. Yearning to return to California's climate and geology, in 1952 Howard left Shell to join Richfield Oil Company for work in the Ventura basin. Richfield moved him to Long Beach, California, in 1958, where he worked the Los Angeles basin and mentored younger workers until the merger of Richfield with Atlantic Refining Company in 1966.

Howard survived the ARCO merger and was moved from Los Angeles, first to Dallas and then, in 1967, to Calgary. He and his wife, Jean, found the winter in Calgary too cold for their thin California blood, so, in 1968, he resigned from ARCO and moved back to California. His family settled in Ventura, where Howard launched an independent exploration consulting practice for multiple clients. He interrupted the consulting from 1971 to 1974 to serve as exploration manager for Argo Petroleum, a small southern California independent oil company.

During this time, Howard's first wife, Jean, passed away in 1984. Howard married Jane Rhodes in 1986, and during the next ten years they traveled extensively. Sadly, his daughter Susan passed away in 1988. Also during this time he quietly bore the advancing stages of his Parkinson's disease, and by 1996 the traveling years were over. Always, his delight was his grandson, Lonnie, whose every move and adventure were followed with great enthusiasm.

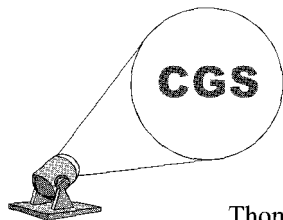
With a chance to contribute a significant work to the geology of southern California, in 1988 Howard came out of semi-retirement to form the Ventura Basin Study Group with Bob Hindle and Tom Hopps. This group completed a subsurface study of Ventura Basin that has been used for petroleum exploration, earthquake studies, and groundwater investigations. Howard loved good geologic discussions, which occurred routinely about some interpretation with the study. And he enjoyed sharing his views and knowledge with the young and not-so-young geologists associated with Study Group clients.

Howard was well respected by his peers in the petroleum industry; even during down times he never lacked consulting work. He was quietly very competitive, but always looked for a win-win outcome. He was a person who could take a huge job and break it down into small, manageable parts. He had strong opinions but was definitely non-judgmental about people. His ethics were beyond reproach.

During his career, Howard gave back much to the geologic community. He was active in AAPG and served in numerous offices and capacities for the Coast Geological Society and the Pacific Section AAPG, where he was a member for more than 50 years. He was General Chairman of the 1966 Pacific Section AAPG convention.

Howard truly enjoyed his chosen profession of geology and the many friendships he gathered along the way. He enriched our lives, and the world is a better place for his having been here.

—Tom Hopps and Thane McCulloh



Society Spotlight: Coast Geological Society

The presumed primary purpose of most societies is to allow colleagues to meet and discuss issues of common interest, either through casual conversation or formal presentation. But that purpose could be short lived without goals and community commitment. The Coast Geological Society (CGS) focuses on education to promote geology and the earth sciences, often with the support of other organizations such as the

Thomas Dibblee Jr. Geological Foundation. From funds raised through meeting dues, field trips, publications, raffles, and contributions, the CGS from its charter has distributed scholarships to qualified, faculty-sponsored students from community colleges, colleges, and universities in Ventura, Santa Barbara, and western Los Angeles counties. In recent years, the CGS has extended its educational involvement by sponsoring primary- and secondary-school student field trips to the Marine Center at Catalina Island and by judging and granting awards to students participating in the Ventura County Science Fair and Energy Day.

Recently, the CGS has been honored to manage The John J. Woolley Scholarship Fund, which was established following the untimely death of John Woolley, one of the CGS's esteemed members. The Woolley family's generosity is exemplified by the founding of this scholarship fund in John's memory to benefit worthy geology students, graduates, and teachers in our area. Venoco Inc., where John last worked, set up the annual John Woolley Memorial Golf Tournament in the fall of 1999. Proceeds from this annual event go directly toward these scholarships. Through the Woolley Fund, the CGS has been able to increase the number and enhance the value of the scholarship awards.

In addition to student scholarships, this year CGS introduced a Graduate Student Award and the John J. Woolley Teacher Award. The Teacher Award was established to recognize educators, focusing at the community college level, who support undergraduate geology programs. Inspired by John's contributions as a geology instructor at Oxnard Community College, this award is given to assist teachers who encourage geology and earth science to future generations of students. The Graduate Award is given to a worthy student who the CGS values as a future contributor to the promotion of the earth sciences based on their proven commitment.

These scholarships are awarded by the CGS at its May meeting. In 2002, more than \$6,500 in scholarships was awarded to selected students and educators who were nominated by their teachers and colleagues. CGS's commitment is firm, and with the continued and growing support received, we will be able to assist more students and teachers on their paths to success.

—Bob Orlando, President, Coast Geological Society

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Wellsite core characterization reduces risk for Gulf of Mexico client

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3. Assess reservoir quality
4. Determine the quality of the core and its suitability for geomechanical testing – on site
5. Significantly reduce risk
6. Significantly increase opportunity

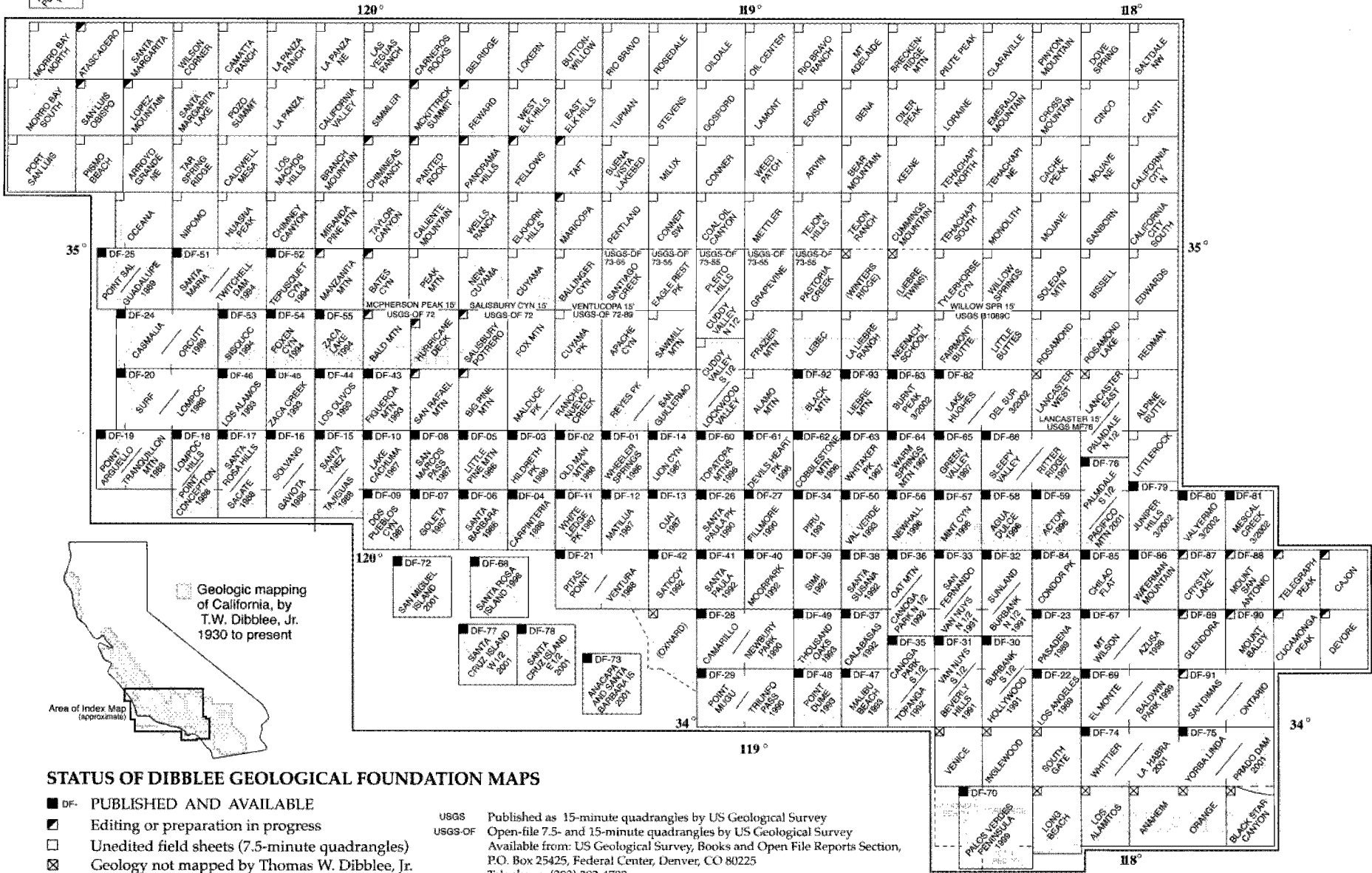
The information Core Lab provided enabled our client to fast track the decision to drill the first production well and to begin optimizing the reservoir. Core Lab's data and proprietary technologies will help increase ROI throughout the life of the field.

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

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



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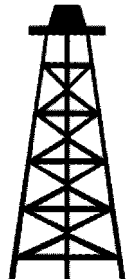
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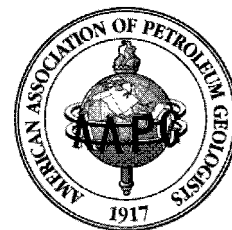
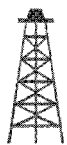
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Pacific Section • American Association of Petroleum Geologists

September & October • 2002

MESSAGE FROM THE PRESIDENT: *Reasons to be Happy*

Don't you sometimes wonder what it is that sets geologists apart from a lot of other folks? Here's what I think: we love what we do. Not just an occasional few but, by and large, all of us. And well we should.

From files to field trips, our chosen profession is an adventure. We must make sense out of scattered and oftentimes scarce pieces of the puzzle, visualizing and understanding the spatial relationships, chemistry, physics, and history of rocks that may be a mile or so beneath the surface of the earth or even on the moon. Certainly it's demanding—millions of dollars or the safety of dozens or even thousands of people may be riding on our recommendations. Collectively, we help tend to the well-being of our nation.

We are surrounded by intelligent, creative people. Considering the complexities of Pacific Rim geology, I personally believe we are surrounded by the best geologists in the world. We are optimists—we expect to find the answer by wading through and processing mountains of abstract data. We are bound to a high standard of ethics. Almost every geologist I've ever met just naturally embraces a value system consistent with the AAPG Code of Ethics.

Our work is exciting—picking the top of a pay zone within feet, seeing oil or gas surface on a test, or boring into a geologic hazard as predicted is a rewarding outcome. Geologists typically score in the top few percent of professions for job satisfaction. The people are fun, the work is exciting, and we get paid to do it! Yes, I think these are ingredients of happiness. We are happy and associate with other geologists who are likewise happy. What could be better? Keep on grinnin'; it makes my day!

This month, the Los Angeles Basin Geological Society is in the Spotlight. Their recent change to terminate annual dues in favor of membership in Pacific Section AAPG is working to the benefit of both LABGS and PSAAPG. Way to go LABGS. Read more about our friends in Los Angeles in the featured article by their president, **Dalton Lockman**.

Speaking of local societies, summer is about over (it doesn't feel like it), and this month marks the beginning of a new year of learning, socializing, and networking at local society meetings, field trips, golf tournaments, and barbecues. San Joaquin Geological Society will lead off these activities with their Annual Fall Barbecue and Golf Tournament on September 6th. Try to be there; last year's was great! Close on their heels, the Northwest Energy Association's Fall Symposium, "Geothermal Potential of the Pacific Northwest," to be held in Bend, Oregon,

on September 19-20, also sounds good. The subject, location, and weather will be hard to beat. Check the society and events pages for monthly meeting schedules.

At the direction of last year's Executive Committee, our Honors and Awards Committee has prepared a revision to Pacific Section bylaws that, if accepted by the membership, will add a Distinguished Service Award and a Distinguished Educator Award to our bylaws. This change will enable us to recognize more of our members who have distinguished themselves with exceptional service to the Pacific Section. Please take the time to review this proposal and cast your vote. Thank you **Bob Lindblom** and your committee for your efforts to successfully complete this assignment in a timely manner.

Paul Decker of the Alaska Geological Society has just about completed the daunting task of accounting for all the income and expenses associated with the 2002 Convention in Anchorage. It still looks like a huge financial success. Proceeds from this meeting will help fund many activities of the Pacific Section, Western Region SPE, and Alaska Geological Society. Thank you Paul for your tireless efforts to complete this important job.

I think you will find the article on California oil seeps interesting. Submitted by **Mike Nelson** of the California Oil Museum in Santa Paula, it puts numbers to what we already knew—that almost all of the petroleum appearing in California's environment is naturally occurring.

Cathie Dunkel, our Newsletter Editor, will include a "Letters to the Editor" feature beginning in the next issue. Please share your ideas and thoughts with the rest of us—you may have just what we're looking for as a Section, a local Society, or an individual. Thanks, Cathie, for all your hard work on the

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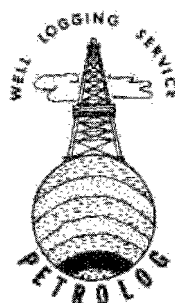
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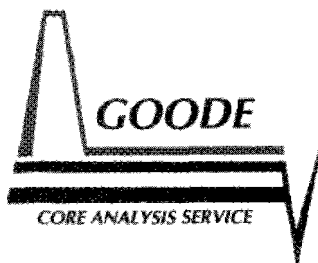
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newsletter and for agreeing to take on another task.

Finally, a reminder that in May of 2003, the PSAAPG Convention will be held jointly with Western Region SPE in Long Beach. Check out the Call for Papers reminder in this issue. Thanks **Galena Richardson** for creating the nifty convention logo. Judging from plans to date and the exceptional committee chairs that the co-chairmen, **Dalton Lockman** (PSAAPG) and **Sam Sarem** (WR SPE), have assembled, it will be an exciting meeting at a great location. I don't want to miss it, and you won't either.

—Tom Hopps, President, Pacific Section AAPG

CALIFORNIA WELL SAMPLE REPOSITORY NEWS

The family of **Roald Andre ("Andy") Marin** (deceased) has donated his geologic library of well files, books, and reports to the California Well Sample Repository. The material consists primarily of California data and will be available for study by the end of the month. Mr. Marin was a member of the AAPG for over 50 years. He was a registered California geologist and had been a working independent geologist in Bakersfield for over 50 years.

—Larry Knauer, California Well Sample Repository

From Brea Canyon in Orange County to Oil Creek in Humboldt County, many topographic names have been derived from oil seeps that pepper much of the California landscape. Encompassing nearly 2,000 natural oil and gas seeps, the Channel Region—coastal Ventura and Santa Barbara Counties—has hosted petroleum as part of the natural environment for thousands of years. From its use as a caulk and glue by the early Chumash to its vital role today as an essential California energy resource, oil has figured prominently in the work and life of the region. Scientists at the University of California at Santa Barbara calculate that more than 50,000 barrels of oil are released naturally every year in onshore and offshore areas of Santa Barbara and Ventura Counties. By contrast, only 26 barrels of oil per are spilled from all offshore facilities during an average year. This means that 99.95% of oil appearing in the environment during the year is due to natural seepage; only 0.05% is manmade. Area pioneers recognized the petroleum-rich character of the Channel Region when they named Coal Oil Point in Santa Barbara, and Sulphur Mountain and Tar Creek in Ventura County. In the midst of an abundance of petroleum, the Channel Region is famed for its extraordinary quality of life, rich agricultural heritage, thriving marine life, and popular tourist attractions. It is a place where oil and water do mix.

—Mike Nelson, Director, California Oil Museum

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Early-Time Unconsolidated Core Data



Wellsite core characterization reduces risk for Gulf of Mexico client

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5. Significantly reduce risk
6. Significantly increase opportunity

The information Core Lab provided enabled our client to fast track the decision to drill the first production well and to begin optimizing the reservoir. Core Lab's data and proprietary technologies will help increase ROI throughout the life of the field.

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Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



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

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

Contact: Bob Orlando
805-656-4677



Dinner meetings are usually held on the third Tuesday of the month (except July and August). As of September, there will be a new meeting location in Ventura; check the CGS website for details. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner is \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. The next meetings are scheduled for September 17 and October 15. For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.



CGS welcomes its new officers for the 2002-2003 term: **Phil Kinney** (President), **Scott Simmons** (Vice President), **Steve Grayson** (Treasurer), and **Jordan Kerr** (Secretary). They take office in October.

Los Angeles Basin Geological Society
c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: Dalton Lockman
323-298-2242



Luncheon meetings are usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meetings are scheduled for September 26 and October 24. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.



LABGS welcomes its new officers for the 2002-2003 term, some of whom are continuing their service from last year: **Dalton Lockman** (President), **Mike Mills** (Vice President), **Kristi Darby** (Treasurer), and **Darrin Arthur** (Secretary). They took office in July.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meetings are tentatively scheduled for September 25 and October 30. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



NCGS is planning three fall field trips. They include a trip to the Rogers Creek/Maacama Fault Zones (date TBA) with **Bob McLaughlin** (USGS), a trip to the Hayward Fault trench (tentatively scheduled for October) with **Jim Lienkaemper** (USGS), and a trip to the Pachecho Pass (date TBA) with **Gary Ernst** (Stanford University). For details, contact **Jean Moran** (NCGS Field Trip Coordinator) at jeanm@stetsonengineers.com.

Northwest Energy Association
www.nwenergyassociation.org

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

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



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



NWEA's Fall Symposium, "Geothermal Potential of the Pacific Northwest," will be held in Bend, Oregon, on September 19 and 20. It will consist of a seminar on September 19 and a field trip to Newberry Volcano on September 20. For details, contact **Jim Jackson** at Jim.Jackson@attbi.com.

Sacramento Petroleum Association

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

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



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The next meetings are scheduled for September 18 and October 16. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. If you are interested in speaking at future meetings, contact **Rick Blake** at 925-422-9910.



SPA has a membership list, which is available free of charge. If interested, contact **Pam Ceccarelli** at 916-322-1110 or pceccare@consrv.ca.gov.

San Joaquin Geological Society
www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

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



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The next meeting is scheduled for October 8. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.



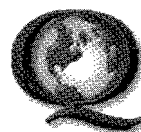
The 2002 Annual SJGS Fall Golf Outing and BBQ will be held on September 6 in Bakersfield. Tee times will be in the morning, and the cost will be \$40 (golf, cart, lunch, prizes; RSVP). The barbecue will be at 5:00 p.m. at the Kern County Museum Oil Exhibit Area, and the cost will be \$15 (RSVP). For more information, see the SJGS website at www.sjgs.com or contact **Mike Richey** at 661-392-2278 or michaelrichey@chevrontexaco.com.

DAVID B. DEL MAR
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SCHEDULE OF EVENTS

SEPTEMBER & OCTOBER 2002

September 6 — SJGS Annual BBQ and Golf Outing
Location: Kern County Museum (BBQ) and Kern County Golf Course (Golf), Bakersfield, CA
For details, see www.sjgs.com.

September 17* — CGS Monthly Dinner Meeting
Location: TBA, Ventura, CA
Speaker: Nate Onderdonk
Title: Block Rotations Along the Big Pine Fault, Western Transverse Ranges, California

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

September 19* — AGS Monthly Luncheon Meeting
Location: Anchorage Hilton, Anchorage, AK
Speaker: TBA

September 19-20 — NWEA Fall Symposium
Location: Bend, OR
Topic: Geothermal Potential of the Pacific Northwest
For details, contact Jim Jackson at Jim.Jackson@attbi.com.

September 25* — NCGS Monthly Meeting
Location: Masonic Center, Orinda, CA
Speaker: TBA

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

October 8 — SJGS Monthly Dinner Meeting
Location: American Legion Hall, Bakersfield, CA
Speaker: Don Gautier (U.S. Geological Survey)
Topic: Petroleum Assessment of the San Joaquin Valley

October 11 — NWEA Monthly Luncheon Meeting
Location: Multnomah Athletic Club, Portland, OR
Speaker: TBA

October 15* — CGS Monthly Dinner Meeting
Location: TBA, Ventura, CA
Speaker: TBA
Topic:* Dibblee Honorary Meeting

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

October 17* — AGS Monthly Luncheon Meeting
Location: Anchorage Hilton, Anchorage, AK
Speaker: TBA


October 24* — LABGS Monthly Luncheon Meeting
Location: The Grand at Willow Street Centre, Long Beach, CA
Speaker: TBA

October 30* — NCGS Monthly Meeting
Location: Masonic Center, Orinda, CA
Speaker: TBA

UPCOMING EVENTS

- November 8* • NWEA Monthly Luncheon Meeting
- November 12 • SJGS Monthly Dinner Meeting
- November 19* • CGS Monthly Dinner Meeting
- November 20 • SPA Monthly Luncheon Meeting
- December 10 • SJGS Monthly Dinner Meeting

**Tentative*



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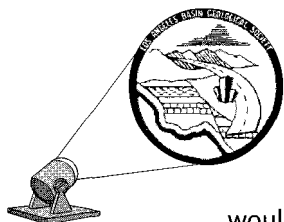
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COMING SOON
▶
Letters to the Editor

Beginning next issue, you will see a new feature in the newsletter—"Letters to the Editor." This feature will provide a forum for us all to express views about our organization.

Members with opinions or suggestions regarding our conventions, publications, newsletter, or other items of interest to the Pacific Section membership are encouraged to share their views and ideas by sending a letter to the Newsletter 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).

Letters should be submitted to the Newsletter Editor at pierkel@msn.com or P.O. Box 1072, Bakersfield, CA, 93302, by October 1 to be considered for publication in the next (November/December) issue.



SOCIETY SPOTLIGHT: *Los Angeles Basin Geological Society*

The Los Angeles Basin Geological Society (LABGS) is an organization of geoscientists that spreads geologic information to the uninformed and encourages professional growth among its members. Founded in 1967, the well-being of LABGS has fluctuated over the years with the same ups and downs as expressed on eustatic sea-level charts. Given that our early society history is suffering from Alzheimer's, we would like to highlight the current activities and philosophies of the LABGS.

The LABGS's goals include:

- Provide an environment for networking and connecting with fellow geoscientists working in the L.A. Basin. This is carried out in the form of our luncheon meetings, field trips, and monthly newsletter.
- Encourage student involvement in the society from the local colleges and universities. This is done by providing financial support to attend our monthly luncheons and by awarding scholarships. We are currently working to budget additional annual scholarships to be awarded each spring.
- Encourage K-12 teacher support via program funding and the PSAAPG Teacher of the Year Award program.
- Provide technical presentations for professional growth on topics relevant to geoscientists working in the L.A. Basin and the world. We currently hold our monthly meetings on the fourth Thursday of the month, except in July, August, and December, when we conduct no meetings, and in November, when we meet on the third Thursday of the month.

Since our active members live in a geographic area that spans over 4,700 square miles, it is a challenge to hold meetings that everyone can attend. Holding the meetings in Long Beach maximizes our exposure for the majority of our members. This past year, our executive board made the decision to terminate LABGS annual dues. Instead, we now require our members to join the PSAAPG and keep that membership active with an affiliation to the LABGS. This philosophy is not new or unique, as several other societies follow this membership procedure. For the LABGS, this was an intentional move to provide better value by getting two memberships for the price of one.

As the year 2002 moves into the fall, the LABGS finds itself acting as a host society for the next joint meeting of PSAAPG and Western Region SPE, which is scheduled for late May 2003 in Long Beach. We are working toward providing exciting field trips and precision organizational skills that will allow engineers and geoscientists to join forces for a powerful meeting that no one will want to miss.

—Dalton Lockman, President, Los Angeles Basin Geological Society

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HOST SOCIETIES

Los Angeles Basin Geological Society
Los Angeles Basin Section of SPE



SUPPORTING ORGANIZATIONS

Pacific Section SEPM
Pacific Section SEG
PTTC

Call for Papers available at: www.psaapg.org

Papers are sought in (but not limited to) the following technical categories:

- Development of turbidite reservoirs
- Turbidite depositional systems
- Recent development of oil and gas fields in the L.A. Basin
- Offshore West Coast Symposium: Update on California Exploitation
- Reservoir characterization and modeling
- Seismic developments in urban areas
- Elk Hills Development Symposium
- Geoscience and petroleum engineering education
- Advances in formation evaluation: Maximizing mature reservoirs
- Sequence stratigraphy and basin analysis
- Chert formation along the Pacific rim
- Compressional tectonics/structural trends along active margins
- Compressional tectonics/ structural trends in the L.A. Basin
- Fault seal, pathways, and fluids
- Production geochemistry applications and integration into geology
- Geology information systems
- Oil and gas field in the western Transverse Ranges
- Southern California Borderland
- Environmental geology

IN APPRECIATION OF MEMBERS' DONATIONS

The Pacific Section AAPG appreciates and gratefully acknowledges the generosity of members who donated to our funds and affiliated organizations during the 2001-2002 year. Thank you for your generous support!

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Summary of 1996-2002 Donations

	2001-2002	2000-2001	1999-2000	1998-1999	1997-1998	1996-1997
Bob Hacker Memorial Publication Fund	\$314	\$458	\$340	\$570	\$481	\$479
Martin Van Couvering Fund	\$273	\$294	\$190	\$225	\$115	\$164
Dibblee Geological Foundation	\$1,116	\$735	\$685	\$837	\$565	\$718
California Well Sample Repository	\$1,015	\$916	\$826	\$665	\$602	\$921
John E. Kilkenny Memorial Scholarship Fund	\$554	\$525	\$527	\$540	\$1,067	\$2,691
Pacific Section AAPG Foundation	\$966	\$1,168	\$557	\$0	\$0	\$0
Total	\$4,238	\$4,096	\$3,125	\$2,837	\$2,830	\$4,973

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IN MEMORY

Memorial articles and photographs may be sent to the editor by family or friends of Pacific Section AAPG members. Materials are subject to revision to accommodate newsletter space constraints and will be returned upon request.

Richard L. Hester, Cathedral City, California
James G. Jackson, San Marcos, California
George Porter, Concord, California

GLADYS P. LOUKE

Geologist Gladys Louke passed away August 4, 2002. She is survived by her husband, Monzell Louke of Martinez California, sons Samuel Louke of Portland, Oregon, and Henry Louke of Bend, Oregon, and four grandchildren.

—Laurakay Louke

CHARLES PARRISH PRIDDY

(1931-2002)

On June 28, 2002, we lost good friend and colleague Charles P. ("Chuck") Priddy to heart-related problems while visiting family in Texas.

Chuck was a Senior Engineer with the California State Lands Commission (CSLC) in Long Beach prior to his retirement in 1985. Born in Gainesville, Texas, June 10, 1931, Chuck attended school (and, of course, played a little Texas high-school football) in Gainesville before matriculating to Texas Tech in Lubbock, receiving bachelors and masters degrees in geology in 1953. Following a stint in the U.S. Army in Korea, Chuck joined Creole Petroleum Corp. in Caracas, Venezuela, where he met and married his lovely wife Marissa.

Chuck joined CSLC in 1963 and spent considerable effort in developing the State geothermal leasing and

development program. He spent a short time in Sacramento on geothermal-related projects, where he also moon-lighted on property appraisal work with Harold Bertholf. Chuck retired from CSLC in November 1985.

Chuck is survived by his wife Marissa in Huntington Beach, daughter Cristina and granddaughters of Mukilteo, Washington, stepson Juan and family of Anaheim, and his mother and sister in Texas.

I had the honor to work (and play) with Chuck for close to 40 years, and he will be both long remembered and sorely missed by all. We spent many hours enjoying wine and telling lies. Chuck was truly a genuine person.

—Bob Paul, California State Lands Commission
& Minerals Management Service (retired)

WELL INFORMATION AND INSTRUMENTATION

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NOTES ON THE REFUGIAN OF SOUTHWESTERN WASHINGTON AND THE SHELL OIL COMPANY WILLAPA CORE HOLES

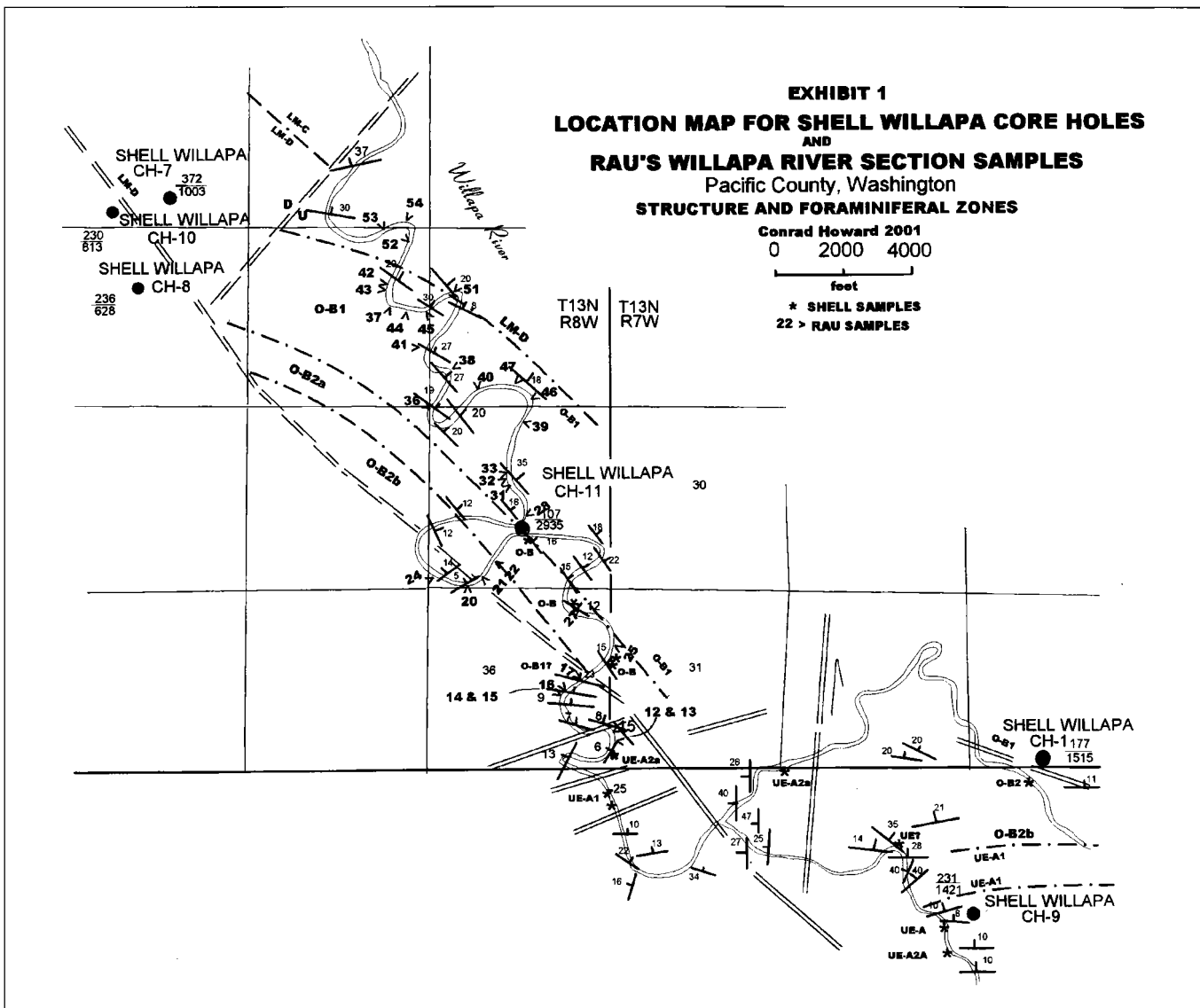
Conrad Howard

Introduction

"Lower Refugian" (upper Eocene) strata equivalent to the Keasey Formation are not widely recognized in published literature or records for wells or outcrop sections in southwestern Washington. There is about 1150 feet of lower Refugian or Keasey-equivalent strata in the Shell Oil Company Willapa core holes out of a total Refugian section of about 3000 stratigraphic feet. This may be the best representation of the lower Refugian foraminiferal stage on the Pacific Coast. All or part of this sequence occurs in six other wells in the Grays Harbor area and as remnants in outcrop sections in the Satsop area. The "upper Refugian" or Lincoln Creek formation is about 1900 feet thick in the core holes and is the more commonly exposed portion of the Refugian. The Lincoln Creek commonly has been mistaken as the entire Refugian stage.

History

Shell Oil Company spudded "Meskill" core hole 1 near the town of Klaber, Washington, in 1955. This reverse-circulation well was the first of many that would ultimately yield nearly 29,000 feet of continuous core in southwestern Washington. Compensating for overlap, almost 13,000 feet of stratigraphic section was recorded. The goal was to obtain a complete stratigraphic record of the Tertiary of southwestern Washington and to use the data to establish a foraminiferal biostratigraphic sequence. Over the next seven years, Shell also embarked on a vigorous program of measuring approximately 100 outcrop sections and drilling several hundred auger holes in western Washington and Oregon. The core hole program was the "yardstick" for comparison of all data. Most of the core holes were sampled at 10-foot intervals, and glass-covered paleo



slides were made for each. Most of the slides contained the complete fauna found and were mounted and recorded to allow checking by senior personnel.

The cores made the trip in 1965 from Olympia, Washington, to Bakersfield, California, where they remain today (at Aera Energy LLC's facilities). The slides have resided in Elma, Olympia, Seattle, Los Angeles, Houston, and Bakersfield. With the demise of Shell Exploration in Houston, all the West Coast material was transferred to Bakersfield. Unfortunately, the filing cabinets containing the Pacific Northwest Columbia District core hole faunal slides, detail sheets, and abundance graphs are now lost in Aera's filing system, as are air photos and topographic maps for auger hole and outcrop sample locations. To date, the Shell micropaleo data have not been included in published data of southwestern Washington.

Rau's (1951) Willapa River section influenced the location of the Willapa core holes; but an unmapped fault, suggested later by biostratigraphic mapping, resulted in the core holes missing part of the lower portion of what Rau had earlier mapped as the Lincoln Creek formation (Exhibit 1).

Stratigraphy

The upper Eocene (Narizian) in southwestern Washington is generally a regressive sequence, but relatively deep-marine conditions existed in the area of the Willapa core holes. The Narizian strata in the core holes are predominately shale and siltstone with the exception of the upper 30 feet, which is a very fine, gray, micaceous Cowlitz-type sandstone. This sandstone contains *Cibicides natlandi* and marks the close of what Shell considered upper Eocene. About five feet of green sandstone rests on the upper Eocene sandstone and contains *Planulina haydoni*, followed by *Bulimina cf jacksonensis* and *Uvigerina atwelli* and *cocoaensis*—indicators of Refugian fauna. There seems to be little, if any, missing section at this boundary. Some have considered the green sandstone to be glauconitic, but they

are probably composed of chloritized basaltic grains and represent a dramatic change in source material.

The lower Refugian (Keasey) strata in the core holes are predominately grayish siltstone with a few sandy streaks of chloritized basaltic grains. The total thickness is about 1150 feet. These sediments were deposited in a bathyal marine environment. There are two biostratigraphic zones used by Shell (Exhibit 2). Rau (1951) initially recognized Keasey strata in the Willapa River section, but subsequently placed it in his *Sigmomorphina schencki* zone and the Lincoln Creek formation (Rau, 1981).

It was unfortunate that the boundary between upper and lower Refugian strata was not cored by Shell so that a more definitive boundary relationship could be established. Core hole 11 spudded immediately below Rau's "light-gray sandstone," which occurs between his samples 25-27 and 28. This sand was named the "Winlock sand" by Shell (Exhibit 3).

The lower Refugian (Keasey) as defined in the Willapa core holes also occurs in the Conoco "City of Hoquiam" (3-18N-10W), "Erkenbrecher" (19-16N-8W), "Hogan Estate" #9 (22-16N-9W), and "Pitchford-McClymont" (4-15N-8W) wells and in the California-Washington Petroleum "Novolitch" (19-17N-9W) and Ohio "Berry Robinson" (5-17N-9W) wells. It also occurs as remnants in outcrop sections in the Satsop area, as the Keasey formation in northwest Oregon, and as part of the Bastendorf Beach formation at Coos Bay. Numerous Shell auger holes in the Willapa Hills also penetrated the lower Refugian (Keasey). Shell measured and sampled a Keasey-Pittsburg Bluff section along the newly built Wolf Creek highway in the late 1940s in which the lower Refugian (Keasey) forams have exceptional preservation (many being air filled).

The upper Refugian (Lincoln Creek) in the Willapa core hole area is a monotonous, 1900-foot-section of gray siltstone with the exception of about 150 feet of the basal "Winlock sand." This basal transgressive sandstone is unconformable away from the

**RANGE CHART FOR SELECTED SPECIES
SHELL WILLAPA CORE HOLES
CONRAD HOWARD 2001**

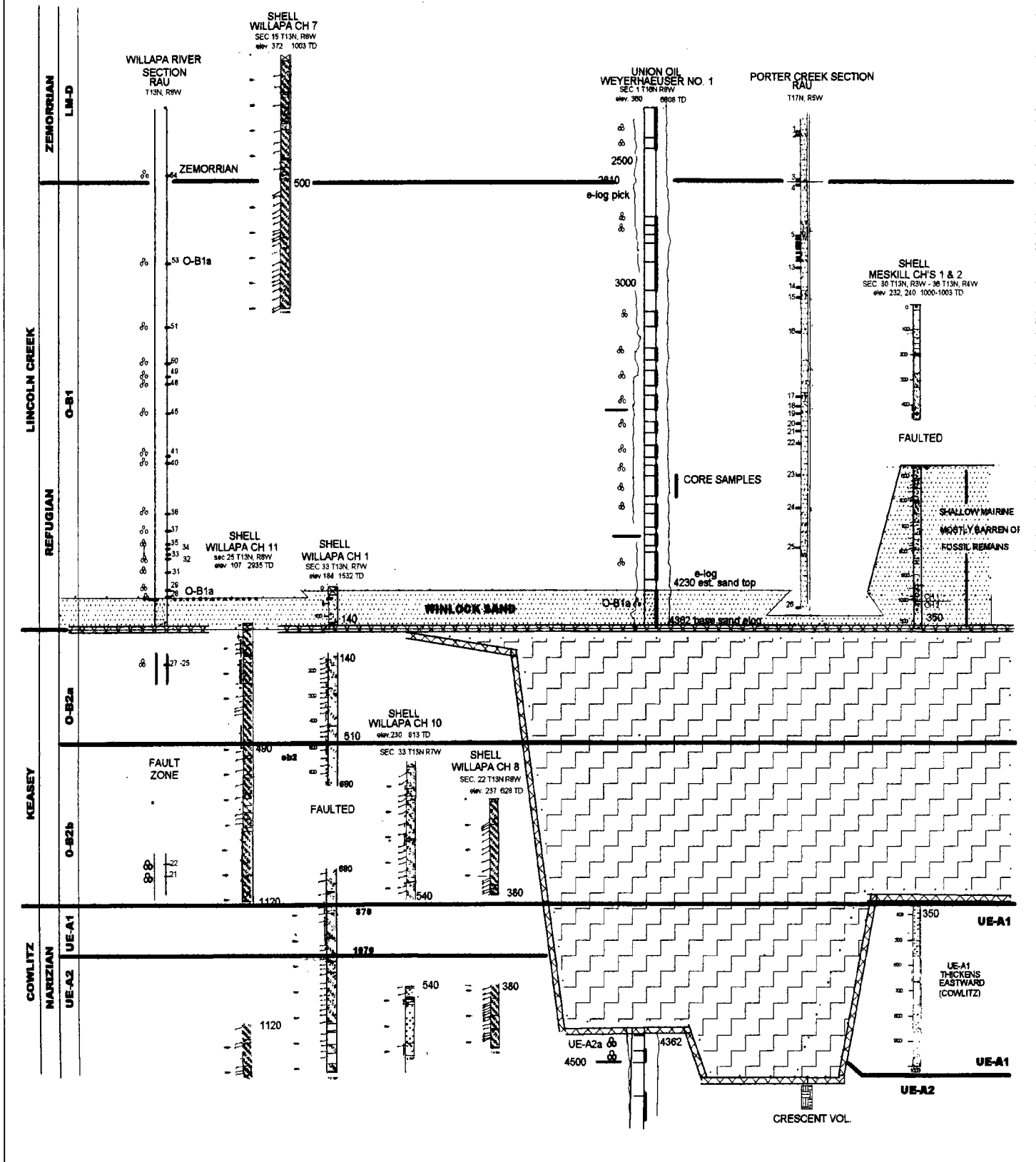
EXHIBIT 2

COWLITZ		KEASEY		LINCOLN CREEK		ZEMORRIAN	STAGES
NARIZIAN		LOWER REFUGIAN		UPPER REFUGIAN			
UE-A2	UE-A1	O-B2b	O-B2a	O-B1		LM-D	ZONES THIS REPORT AFTER SHELL
							<i>Bulimina semicostata</i> 12
							<i>Cibicides natlandi</i> P3
							<i>Cibicides pachyderma</i> 3F
							<i>Bulimina cf jacksonensis</i> 11A
							<i>Planulina haydoni</i> CB 16
							<i>Vahvulinaria churchi</i> 10A
							<i>Puvinulina sp 13</i>
							<i>Cibicides cushmani</i> Disc'ella 2A
							<i>Cancris</i> sp 2
							<i>Uvigerina atwelli</i> SA
							<i>Uvigerina cocoaensis</i> S
							<i>Ceratobulimina washburnei</i> 2
							<i>Puvinulina exiqua</i> S
							<i>Cassidulina galvinensis</i> 1A
							<i>Nontia halkyardi</i> 111
							<i>Uvigerina gallowayi</i> 14-108A
							<i>Cibicides elmaensis</i>
							<i>Angulogerina occidentalis</i> 1
							<i>Oyrolina octocamerata</i> 4
							<i>Uvigerina</i> sp 108C
							<i>Uvigerina</i> sp 108B
							<i>Uvigerina gallowayi</i> v. BC
							<i>Plectonodularia serrai</i> 4
							<i>Anomalinella californiensis</i> 12
							<i>Cassidulina crassapunctata</i> 1
							<i>Martinottiella communis</i> 1
				SIGMOMORPHINA SCHENCKI	CASSIDULINA GALVINENSIS	ZEMORRIAN	RAU ZONATION

numbers are Shell Oil species designations

**EXHIBIT 3
CORRELATION CHART
WILLAPA CORE HOLES AND SELECTED WELLS AND OUTCROP SECTIONS**

CONRAD HOWARD 2001



Willapa core holes and regionally rests on older strata, including lower Refugian, upper Eocene, and volcanics (Exhibit 3). There is little variation in the foraminiferal occurrences throughout this section, and only one biostratigraphic zone is used by Shell (Exhibit 2). Other examples of this zone not mentioned in the literature include Shell "Meskill" core holes 1 and 2 and the Seattle Elma Petrol "Koch" (4-17N-5W). The Lincoln Creek was divided into the *Sigmomorphina schencki* and *Cassidulina galvinensis* zones by Rau (1966).

The Refugian biostratigraphic sequence established by the Shell Willapa core holes in western Washington conforms overall with the Refugian of California and is probably the best representation on the Pacific Coast.

Satsop River Area Notes

The four Satsop River-area outcrop sections described by Rau (1966) were measured and sampled by Shell in 1954. Shell found about 250 feet of Keasey (O-B2) below the basal sandstone in all the sections except the Middle Fork. Rau placed this material in the Narizian. Rau's TI-1 zone is equivalent to Shell's "Winlock sand" (O-B1) and is unconformable on lowermost Refugian or volcanics. His TI-2 zone is Lincoln Creek in age (O-B1) and is about 850 feet thick in the West Fork and Canyon River sections and 1600 feet thick in the Little River and Middle Fork sections.

Rau's TI-3 and TI-4 zones range from 1150 to 2200 feet in thickness and contain conglomerate beds. The fauna indicate upper to middle bathyal water depths, and this interval probably represents turbidite deposition. There is also a mix of Zemorrian and Refugian fossils. The Shell samples contained definite Zemorrian faunas through these intervals in all sections, and Shell did not find *Cassidulina galvinensis*, an upper Refugian

marker foram. This mix may represent redeposition of Lincoln O-B1 fossils in the lower Zemorrian.

Porter Section Notes

The Porter section, as presented by Rau (1958), has approximately 1650 feet of Lincoln Creek formation. The base of the section is probably in fault contact with the Crescent(?) volcanics. The ubiquitous "Winlock sand" is not present and probably has been cut out by the fault. This section was considered to be the total Refugian by previous authors.

References

- Rau, W.W., 1951, Tertiary Foraminifera from the Willapa River Valley of southwestern Washington: *Journal of Paleontology*, v.25, n.4, p.417-453.
- Rau, W.W., 1958, Stratigraphy and foraminiferal zonation of some of the Tertiary rocks of southwestern Washington: U.S. Geological Survey Oil and Gas Investigations Chart OC-57, 2 sheets.
- Rau, W.W., 1966, Stratigraphy and Foraminifera of the Satsop River area, southern Olympic Peninsula, Washington: Washington Division of Mines and Geology Bulletin 53, 66 p., 8 plates.
- Rau, W.W., 1981, Pacific Northwest benthic foraminiferal biostratigraphic framework—An overview, in Armentrout, J.M., editor, Pacific Northwest Cenozoic biostratigraphy: Geological Society of America Special Paper 184, p. 67-84.

Editor's note—Comments should be directed to the author at choward1@bak.rr.com.

BITS & PIECES

PTTC Workshops

Upcoming workshops of the Petroleum Technology Transfer Council West Coast Resource Center will address reservoir and technology issues. For information, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

- *Reservoir Characterization for Heavy Oil Sands—Coalinga Oil Field and Related Sedimentary Environments*, September 12, Bakersfield, CA
- *Trouble Shooters' Forum*, September 19, Valencia, CA
- *Stripper Well Technologies*, October 17, Valencia, CA

Groundwater Modeling Course

The Groundwater Resources Association (GRA) of California, University of California, and International Association of Hydrogeologists are sponsoring a three-day course, entitled *Principles of Groundwater Flow and Transport Modeling*. The course will address the principles, methods, assumptions, and limitations of groundwater models, and provide hands-on experience with the planning, preparation, execution, presentation, and review of a modeling project. It will be held September 25-27 at the Seaport Conference Center in Redwood, City, California. For details, contact **Kathy Snelson** at 916-446-3626 or executive_director@grac.org.

Death Valley Tour

The Long Beach City College Foundation is sponsoring a field tour, "Treasures of Death Valley," October 15-17. Participants will tour Badwater, Zabriskie Point, Artists' Drive, Ubehebe volcanic crater, Scotty's Castle, Devil's Golf Course, Pinnacles (near Trona), Searles Lake, sand dunes, Mosaic Canyon, and Lava Creek Ash. Highlights include two nights' accommodations at Furnace Creek Ranch Resort in the heart of Death Valley; a BBQ dinner at Furnace Creek Ranch; a tour of Scotty's Castle; a picnic lunch in the Valley; lunch at Two Sisters; lunch at the CSU research station on Zzyzx Road; a visit with Marta Becket at Amargosa Opera House, Death Valley Junction; and a visit to the Borax Museum. The cost is \$350 per person (double occupancy, includes air-conditioned motor coach, three lunches, BBQ dinner, all admissions, and transportation); add \$100 for single supplement. For more information, contact **Virginia Baxter** at 562-938-4634. Proceeds will benefit the Long Beach City College Foundation.

Access this newsletter online at www.psaapg.org

September/October password: **mudlog**
November/December password: **porosity**



PACIFIC SECTION

P. O. BOX 1072 BAKERSFIELD, CALIFORNIA 93302

American Association of Petroleum Geologists

TO: Members of Pacific Section AAPG

FROM: Bob Lindblom; Chair, Honors and Awards Committee

SUBJECT: Proposed changes to the Pacific Section AAPG Constitution and Bylaws to establish definitions of Honorary Life Member and other awards to be given at Section annual meetings beginning in 2003.

Following a review, after the Executive Committee meeting on July 9, 2002, of the definitions submitted with the July 6, 2002 memo, the new versions of the Section 5, Definition of Honorary Life Member and the award definitions attached to Article II, Committees, Section 9, Committee on Honors and Awards, are listed below:

ARTICLE I, SECTION 1, MEMBERSHIP

Section 5. Definition of Term: "Honorary Life Member"

The Executive Committee may honor each year one or more active members by designating them an Honorary Life Member. A definition and description of the term is found in the Bylaws, Article II, Committees, Section 9, Committee on Honors and Awards. Honorary Life Members are exempt from all future Section dues.

ARTICLE II, COMMITTEES

Section 9. Committee on Honors and Awards

The primary function of the Committee on Honors and Awards is to recommend to the Executive Committee the nominees, with supporting data, for the following awards: *Honorary Life Member*, *Distinguished Service*, and *Distinguished Educator*. The Committee on Honors and Awards will consider all recommendations for these awards received from Section members and affiliated societies. Following Executive Committee approval, the awards will be presented to the respective recipients at the annual meeting of the Pacific Section, or the annual meeting of the American Association of Petroleum Geologists if held in California.

* Honorary Life Member Award:

Definition: The *Honorary Life Member Award* is the highest award of the Pacific Section. It is bestowed upon members who have distinguished themselves by their consistent, dedicated, and exemplary service to the science and profession of petroleum geology and to the Pacific Section or affiliated societies. The person honored must be a member in good standing, in any classification, of the American Association of Petroleum Geologists. It is customary, but not mandatory, to make one or more awards each year. Honorary Life Members shall be exempt from annual Section dues.

Continued...

...Continued

*** Distinguished Service Award**

Definition: The *Distinguished Service Award* is bestowed upon members in recognition of singular and beneficial long-term service to the Pacific Section or affiliated societies. The term singular does not necessarily mean without precedent, but rather the activity is specific as distinguished from general service. The person honored must be a member in good standing, in any classification, of the American Association of Petroleum Geologists. Annual presentation is not required, and there shall be no limitation of the number of annual recipients considered, but Honorary Life Members should generally be excluded.

*** Distinguished Educator Award**

Definition: The *Distinguished Educator Award* is given to persons in recognition of their distinguished and outstanding contributions to geological education. Such contributions involve the teaching and counseling of students at the university level. The education of the public and management of educational programs may also be recognized. The recipient need not be a member of the American Association of Petroleum Geologists. It is customary that only one award will be given each year.

The changes listed above to the Constitution and Bylaws of the Pacific Section AAPG are herewith submitted to the membership for approval.

Please indicate your approval or disapproval of these changes by marking the ballot and mailing it to Pacific Section AAPG, P.O. Box 1072, Bakersfield, CA 93302. Ballots should be received by October 15, 2002.



PACIFIC SECTION

P. O. BOX 1072 BAKERSFIELD, CALIFORNIA 93302

American Association of Petroleum Geologists

Proposed changes to the Pacific Section AAPG Constitution and Bylaws to establish definitions of Honorary Life Member and noted awards to be given at Section annual meetings beginning in 2003.

I approve the proposed changes.

I do not approve the proposed changes.

Comments: _____

Deadline for the
November/December issue:
October 4, 2002

Visit the Pacific Section AAPG
website:
www.psaapg.org

The *Pacific Petroleum Geologist Newsletter* is published bimonthly by the Pacific Section of the American Association of Petroleum Geologists.

Information and materials for publication, and letters to the editor should be directed to:

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pierkel@msn.com; 805-383-0642

Geological articles for publication should be directed to:

Frank Cressy
fcressy@prodigy.net; 661-323-6828

Communications regarding advertising should be directed to:

Larry Knauer
larryknauer@chevrontexaco.com; 661-392-2471

Change of address, subscription, and membership inquiries should be directed to:

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

To order publications of the Pacific Section AAPG, write to:

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

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Pacific Petroleum Geologist Newsletter
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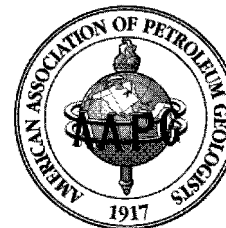


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Pacific Petroleum Geologist NEWSLETTER



Pacific Section • American Association of Petroleum Geologists

November & December • 2002

MESSAGE FROM THE PRESIDENT: *Good Ol' Boys*

Do you remember when... all the major oil companies had offices in Los Angeles? ...Companies had scouts and core parties? ...There were as many exploration rigs running as development rigs? ...Or when one of the most important elements of the fall field trip was the Core Lab pickup truck filled with beer? ...And the other was the big barbecue? In southern California, times have changed. There is one major oil company left and it's in Bakersfield; companies mostly don't cut cores and, when they do, there are no scouts to go to a core party anyway; the few rigs still running are almost all drilling development wells; field trip refreshments are now water, soda, and, sometimes, a little beer; and the barbecues gave way to cold sandwiches. And the Good Ol' Boys who remember all this are now the Good Old Men... The Good Old Men who wrote the definitive papers on much of California's petroleum geology, the Good Old Men who know where the bones are buried, the Good Old Men who, by simply attending dinner meetings, are mentors for a generation removed.

But change is good; along with the new faces comes an enthusiasm built on fresh attitudes, new creativity, and comfort with tools of the digital age. In most local societies, the addition of students, environmental geologists, and others has increased the membership and greatly broadened the topics of exchange. So now at monthly meetings, we not only get to socialize, network, and hear pertinent papers, but the younger geologists may get to discuss their ideas with those who laid the groundwork; the older geologists get exposed to fresh ideas that may provide the missing link to a prospect; and we all get exposed to a much broader range of information. Social mentoring, if you will—one of the most satisfying and important benefits of attending monthly meetings and of belonging to Pacific Section, and for employers, one of the most important reasons to support Pacific Section activities.

That brings me first to remind you that your Pacific Section dues should have been paid by now. If you have not yet paid them, please take a moment to send **Allen Britton** your check along with any address updates for inclusion in the new directory, which will be delivered in the spring of 2003. Also, if any of your colleagues are not members of Pacific Section, now would be a great time for them to join. It will enable them to be listed in the new directory, in addition to enjoying other benefits of Pacific Section membership. Allen's address is Membership Chair, Pacific Section AAPG, P.O. Box 1072, Bakersfield, CA 93302.

And second, it brings me to encourage you to actively

participate in the upcoming joint Pacific Section AAPG-Western Region SPE Convention to be held in Long Beach on May 20-24, 2003. As noted by **Dalton Lockman**, Pacific Section General Co-Chairman, the theme of this meeting, L.A. Basin: Original Urban Oilfield Legend, highlights one of the meeting's primary focus areas: parallel discovery and development of subsurface and surface resources. Of course, the meeting will also focus on other areas of technical interest that will encompass West Coast-oriented aspects of geoscience and petroleum engineering (see page 3 of this issue). Please take time to visit the Convention website located under the Conventions tab at www.psaapg.org and, if possible, submit an abstract for an oral paper or a poster presentation.

In this issue, the Northern California Geological Society is in the spotlight. You gotta like any society whose stated objectives include "fellowship and fun." In addition, NCGS boasts an impressive list of speakers and field trip leaders from the USGS and numerous universities in their area. I'm particularly impressed that they sponsor a unit in geology for K-12 teachers. Learn more about the NCGS by reading the "Society Spotlight" article by their Pacific Section representative, **Mel Erskine** (page 6).

On September 23rd, the AAPG held its second annual president's conference in Washington, D.C., to discuss environmental issues relating to energy development. From L.A. Basin, our National Advisory Council member, **Don Clarke**, was there and presented an example of how petroleum companies are handling environmental impacts in the urban setting of Long Beach, California. Don spends a lot of time and gets a lot done for AAPG and Pacific Section. Thanks for all your efforts, Don. Keep up the good work.

Continued on page 2

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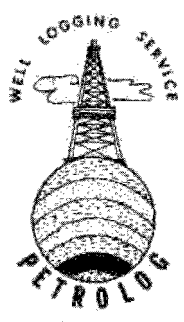
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MESSAGE FROM THE PRESIDENT *continued from page 1*

If you would like numbers to go with some of the questions people have about the oil and gas business, see "Facts About Oil" in this issue (page 9). You might be surprised.

Finally, legendary geologist **Tom Dibblee**, one of our most distinguished members and a Good Old Man who has mentored countless young geologists, turned 91 in October. He's still mapping! On behalf of the membership of Pacific Section, Tom, we wish you a very happy 91st birthday. Pacific Section AAPG is proud to help support your efforts in the Dibblee Foundation. We look forward to the publication of many more of your great maps.

—Tom Hopps, President, Pacific Section AAPG



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- 6. Significantly increase opportunity**

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2003 Combined Meeting Long Beach, California

Technical Sessions May 21-23

PACIFIC SECTION
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

WESTERN REGION
SOCIETY OF PETROLEUM ENGINEERS



Call for Papers

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

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

Help us make this meeting a great technical success by documenting and sharing some of your best work— details regarding abstract submission for an oral paper or a poster presentation may be found below.

We are seeking papers in (but not limited to) the following technical categories:

- Development of turbidite reservoirs
- Turbidite depositional systems
- Recent development of oil and gas fields in the L.A. Basin
- Offshore West Coast symposium: Update on California exploitation
- Reservoir characterization and modeling
- Seismic developments in urban areas
- Elk Hills development symposium
- Geoscience and petroleum engineering education
- Advances in formation evaluation: Maximizing mature reservoirs
- Sequence stratigraphy and basin analysis
- Chert formation along the Pacific Rim
- Compressional tectonics/structural trends along active margins
- Compressional tectonics/structural trends in the L.A. Basin
- Fault seal, pathways, and fluids
- Production geochemistry applications and integration into geology
- Geology information systems
- Oil and gas field in the western Transverse Ranges
- Southern California Borderland
- Environmental geology

Information for Abstract Submittal

Abstracts may be submitted for oral and/or poster presentation. Abstracts are limited to 250 words and are due by January 31, 2003. They may be submitted in one of the following media: e-mail, diskette, or hardcopy (fax and mail). Accepted abstracts will appear in the convention program book, be put on a CD-ROM that will be included in all attendees' registration packets, and be published in AAPG/Datapages. You can access the Call for Papers brochure and instructions for abstract submittal on the Pacific Section AAPG website at www.psaapg.org.

For more information, contact:

John Cooper: 714-278-2662, jcooper@fullerton.edu, PS-AAPG Program Co-Chairperson
Glenn Swanson: 562-595-6440 ext. 313, gswanson@shpi.net, WR-SPE Program Co-Chairperson

Alaska Geological Society
www.alaskageology.org

P.O. Box 101288
Anchorage, AK 99510

Contact: Greg Wilson
gcwilso@ppco.com



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

Coast Geological Society
www.coastgeologicalsociety.org

P.O. Box 3055
Ventura, CA 93006

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



Dinner meetings are usually held on the third Tuesday of the month (except July and August). Meetings will move from the old American Legion Hall (83 S. Palm Street) to the new American Legion Hall (under construction) in Ventura late this year; check the CGS website for details. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner is \$12 (with reservations), \$17 (without reservations), or \$7 (students and K-12 teachers); the talk is free. Upcoming meetings are scheduled for November 19 and December 17. For information or reservations, contact **Scott Simmons** at coastgeo@pacbell.net or **John Surigao** at 805-653-7975 (voice) or 805-653-7452 (fax); please make reservations by e-mail if possible. Reservations by e-mail should be made by 5:00 p.m. on Thursday before the meeting; reservations by voice or fax should be made by 3:00 p.m. on Friday before the meeting.



CGS welcomes its new officers for the 2002-2003 term: **Philip Kinney** (President), **Scott Simmons** (Vice President), **Steve Grayson** (Treasurer), and **Jordan Kerr** (Secretary). They took office in September.



CGS and Venoco Inc. will sponsor the 4th Annual John Woolley Memorial Golf Tournament on November 1 to raise money for scholarships sponsored by CGS. The Tournament will be held at Glen Annie Golf Club in Santa Barbara and will include a barbecue dinner, awards, and prizes. See the CGS website for details.

Los Angeles Basin Geological Society
c/o Dalton Lockman (Stocker Resources, Inc.)

5640 South Fairfax Avenue
Los Angeles, CA 90056

Contact: Dalton Lockman
323-298-2242



Luncheon meetings are usually held on the third or fourth Thursday of the month (except July, August, and December) at 11:30 a.m. in the Monarch Room at The Grande at Willow Street Centre (4101 E. Willow Street) in Long Beach. The next meeting is scheduled for November 21. The cost is \$17 (with reservations), \$20 (without reservations), or \$6 (students). For information or reservations, contact **Mike Mills** at 714-220-9138 ext. 13 or millslabgs@hotmail.com. Reservations should be made by Tuesday before the meeting.

Northern California Geological Society

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Dan Day
925-294-7530



Evening meetings are usually held on the last Wednesday of the month (except July and August) at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). The next meeting is scheduled for November 20. The cost is \$5. For reservations, contact **Dan Day** at 925-294-7530 (leave your name on the voice recorder any time before the meeting).



NCGS welcomes its new officers for the 2002-2003 term, some of whom are continuing their service from last year: **Mark Detterman** (President), **Jean Moran** (Field Trip Coordinator), **Phil Reed** (Treasurer), and **John Karachewski** (Program Chair), **Randy Kirby** (Scholarship), **John Stockwell** (K-12 Programs), and **Dan Day** (Newsletter Editor).



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

Sacramento Petroleum Association

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

Contact: *Rick Blake*
925-422-9910



Luncheon meetings are held on the third Wednesday of the month at noon at the Hungry Hunter Restaurant (450 Bercut Drive) in Sacramento. The next meeting is scheduled for November 20. The cost is \$15. For information or reservations, contact **Pam Ceccarelli** at 916-322-1110. If you are interested in speaking at future meetings, contact **Rick Blake** at 925-422-9910.

San Joaquin Geological Society
www.sjgs.com

P.O. Box 1056
Bakersfield, CA 93302

Contact: *Jaime Roig*
661-665-5942



Dinner meetings are usually held on the second Tuesday of the month (except July through September) at the American Legion Hall (2020 H Street) in Bakersfield. The icebreaker starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. Upcoming meetings are scheduled for November 12 and December 10. The cost of dinner is \$15 (with reservations) or \$18 (without reservations); the talk is free. For reservations, contact 661-392-2278.

SCHEDULE OF EVENTS

NOVEMBER & DECEMBER 2002

November 12 — SJGS Monthly Dinner Meeting (Spouse Night)

Location: American Legion Hall, Bakersfield, CA
Speaker: Gary Peterson (San Diego State University)
Title: Why Mars is Red

November 19 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA (see the CGS website for details)
Speaker: Elizabeth Mathieson (Exponent Failure Analysis Associates Inc.)
Title: The Present is the Key to the Past is the Key to the Future

November 20 — NCGS Monthly Meeting

Location: Masonic Center, Orinda, CA
Speaker: John "Jay" Zucca (Lawrence Livermore National Laboratory)
Title: Forensic Seismology Supports the Comprehensive Test Ban Treaty

November 20* — SPA Luncheon Meeting

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

November 21 — LABGS Monthly Luncheon Meeting

Location: The Grand at Willow Street Centre, Long Beach, CA
Speaker: Gary Fuis (USGS)
Title: The Geologic Structure Beneath the L.A. Basin—LARSE Project Update

December 10 — SJGS Monthly Dinner Meeting

Location: American Legion Hall, Bakersfield, CA
Speaker: Karen Blake (Paulsson Geophysical)
Title: 3D-Seismic Survey Offshore Wilmington Field

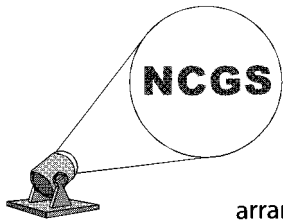
December 17 — CGS Monthly Dinner Meeting

Location: American Legion Hall, Ventura, CA (see the CGS website for details)
Speaker: Julia Campbell
Title: Anthropology of Petroleum Exploration in Southeast Asia

UPCOMING EVENTS

- January 8 • SJGS Monthly Dinner Meeting
- January 15 • SPA Monthly Luncheon Meeting
- January 21 • CGS Monthly Dinner Meeting
- January 23 • LABGS Monthly Luncheon Meeting
- January 29 • NCGS Monthly Meeting
- February 2 • SJGS Monthly Dinner Meeting
- February 18 • CGS Monthly Dinner Meeting
- February 19 • SPA Monthly Luncheon Meeting
- February 27 • LABGS Monthly Luncheon Meeting

* Tentative



SOCIETY SPOTLIGHT: Northern California Geological Society

The Northern California Geological Society (NCGS) is the northern California affiliate of Pacific Section AAPG. The society has monthly (except July and August) meetings with invited speakers in the Orinda Masonic Center in Orinda. The meetings, speakers, and their topics are announced in an extensive monthly newsletter. Meetings are generally held on the last Wednesday of the month, but other times may be arranged for special speakers or events. In addition, the society supports three to six field trips per year to local areas of geologic interest. Membership costs \$10 per year and is not limited to geologists or AAPG members. Meetings cost \$5 (which covers drinks and snacks), and field trips (including guidebooks) are priced to cover costs.

Paid membership (about 260) includes environmental and engineering geologists, academics, consultants, state and federal employees, and retirees, as well as non-geologists. The guiding principle in selecting programs, speakers, and fieldtrips is the continuing education of our membership in an atmosphere of fellowship and fun.

Recent meetings have featured:

- **James A. Harrell** (AAPG Distinguished Speaker): *Archaeological geology in Egypt: Ancient oil wells and mummy bitumen, earliest geological map, first paved road, Pyramid Temple Complex, and the Sphinx age controversy*
- **John Karachewski** (Weiss Associates): *California geoscapes* (photographs of scenic California geology)
- **John Gableman** (Gableman Associates): *Hydrous carbonatitic(?) volcanism in central Wyoming*
- **Donald Gautier** (USGS): *The ghost of Malthus, the global greenhouse, and the perilous geology of petroleum*
- **Roger Ashley** (USGS): *Lode gold deposits of the Sierra Nevada and their environmental impacts*
- **James Moore** (USGS): *Exploring the highest Sierra*

Spring 2002 field trips included:

- **Gary Greene** (California State University, Moss Landing Marine Laboratory): *Moss Landing Marine Laboratories and Point Lobos*
- **Ron Crane** (Consultant) and **Craig Lyon** (Chevron retiree): *Structure and geology of Mount Diablo*
- **Elwood Brooks** (California State University, Hayward): *Geology of the eastern belt of the northern Sierra Nevada*
- **Ray Wittcopp** (Consultant): *A tour of the 16:1 Gold Mine*

Fall 2002 field trips will tentatively include:

- **Bob McLaughlin** (USGS): *Rogers Creek/Maacama Fault zones*
- **Jim Lienkaemper** (USGS): *Hayward Fault trench*
- **Gary Ernst** (Stanford University): *Pacheco Pass*

NCGS also sponsors scholarships at local universities and a unit in geology for K-12 teachers. **Ray Sullivan**, Emeritus Professor at San Francisco State University, teaches the unit course annually at Black Diamond Mines Regional Park.

—Mel Erskine, Northern California Geological Society

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NEW & REINSTATED MEMBERS — **Robert E. Anderson**, Pasadena, CA • **Ernie Burroughs**, Geolog, Sacramento, CA • **Fernando C. Cardenosa**, ChevronTexaco, Bakersfield, CA • **Leslie A. Driver**, Geomatrix Consultants, Inc., Costa Mesa, CA • **Stephen A. Hamm**, Schlumberger Mexico, Katy, TX • **Thomas M. Howard**, Inlenco Inc., Dana Point, CA • **Cynthia Huggins**, Oxy of Elk Hills, Tupman, CA • **Jeff Kerns**, Matrix Oil Corp., Santa Barbara, CA • **Daniel P. Kramer**, California Independent Petroleum Association, Elk Grove, CA • **David K. Larue**, ChevronTexaco, Huntington Beach, CA • **Sonjia Leyva**, San Gabriel, CA • **Monzell Louke**, Martinez, CA • **Mervin F. Lovenburg**, Montecito, CA • **John Mack**, California State University, Los Angeles, CA • **Zachary Moran**, P.W. Environmental, Santa Barbara, CA • **Michael P. Nelson**, California Oil Museum, Santa Paula, CA • **Charles T. Nestle**, L.A. County Dept. of Public Works, South Pasadena, CA • **Michael A. Palmer**, Hargis & Associates Inc., San Diego, CA • **Jay T. Sperr**, Equity Oil Co., Denver, CO

HONORS & AWARDS — **Thomas W. Dibblee, Jr.**, is the recipient of the Groundwater Resources Association of America's 2002 Lifetime Achievement Award.

TRANSITIONS — The **Dibblee Geological Foundation** has merged with the Santa Barbara Museum of Natural History.

IN MEMORY* — **Roger G. Alexander, Jr.**, Walnut Creek, CA • **Martin H. Link**, Houston, TX

GLADYS PEYSER LOUKE

1922-2002

Gladys Peyser Louke was born on November 1, 1922, in San Francisco, California. She passed away on August 4, 2002, in Martinez, California, after a relatively short illness with cancer.

As a young child, Gladys was fascinated with rocks and fossils, and she was an avid hiker in the Sierra with her father from an early age. She attended grammar through high school in San Francisco. She attended U.C. Berkeley (at a time when it was uncommon for young ladies to study geology), where her mentor, Dr. Nicholas Taliaferro, encouraged her to take geology and other earth science courses, and she graduated with honors in paleontology in 1943.

From 1943 to 1954, she was employed as a geologist and stratigrapher with oil companies in Louisiana and California, including Texaco Inc. and Standard Oil of California. From 1954 to 1972, she worked as a geologist or geological consultant for a number of organizations in California, including the U.S. Geological Survey, California Division of Mines and Geology, and Richfield Oil Corporation. In 1972, Gladys and her husband, Monzell, started their own professional geology and geophysical company, where they worked together until their retirement in 1995.

Gladys was a member of the Pacific Section AAPG's Committee for the Study of Lateral Faulting in California, which published a series of San Andreas fault cross-sections in the mid-1960s; she produced the first of the twelve-section series (Louke, 1964). Her other publications include geologic maps of the Emerald Mountain (Louke, 1966) and Tehachapi quadrangles (Dibblee and Louke, 1970). She was a registered professional geologist in California (No. 638) and a member of AAPG, AAAS, GSA, SEPM, and Sigma Xi.

She is survived by her husband, two children, and four grandchildren. Gladys was a true professional and will be sorely missed by her family and friends.



—Monzell Louke

Louke, G.P., 1964, San Andreas Fault Cross Section Parallel Along the East and West Sides of the Fault from Southern Marin County to Point Arena: Pacific Section American Association of Petroleum Geologists, Committee for the Study of Lateral Faulting in California, Cross Section No. 1, East & West.
 Louke, G.P., 1966, Reconnaissance Geologic Map of the Emerald Mountain Quadrangle, 1:62,500: California Division of Mines and Geology, Open File Map.
 Dibblee, T.W., Jr., and Louke, G.P., 1970, Geologic Map of the Tehachapi Quadrangle, Kern County, California: U.S. Geological Survey, Map I-607.

Editor's note: Gladys Louke was an academic and professional pioneer for female geoscientists in California and was among the first women to be registered as a professional geologist. She joined the Pacific Section AAPG in 1945 and was among those with the longest period of sustained membership.

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

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

(courtesy of Dan Fargo)



A golf team breaks for lunch before "resuming battle on the links!" Left to right: **Mark Holtzclaw** (ChevronTexaco), **Bill Fedewa** (Oxy), **Dan Fargo** (Omni Laboratories), and **Dave Miner** (Oxy).



Wendy and Jim Waldron (ChevronTexaco) and **Mike Richey** (ChevronTexaco).



SJGS "Barbie" cooks getting "heated up." Left to right: An anonymous volunteer, **Dwight Lee** (Oxy), and **Dan Fargo** (Omni Laboratories).



Guests arriving at the well-attended barbecue.



September 6
2002



Left to right: **Dwight Lee** (Oxy), **Dan Fargo** (Omni Laboratories), and **Mike Richey** (ChevronTexaco) admire Reeves Wireline's open-hole logging unit with 2 1/4-inch-diameter formation tester. Reeves' logging truck was on display during the barbecue.

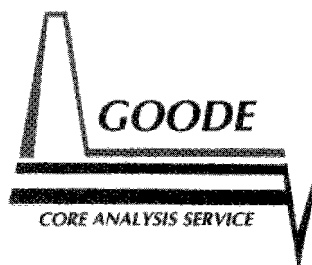
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FACTS ABOUT OIL

It seems to be fairly common knowledge these days that countless items we use in civilian and military life for comfort, convenience, and survival come from petroleum. In general categories, these include plastics, clothing, medicines, cosmetics, paint, fertilizers, and other chemicals. Perhaps it's not such common knowledge that all this comes from less than 3% of the oil we consume. Another 3% is used for asphalt and road oil, 1% is used for lubricants, and 14% has other uses. The remaining 79% is used mostly for transportation—including cars, trucks, ships, trains, and planes—but also includes heating oil, industrial fuel, and electric power generation. In fact, oil provides about 40% of the energy Americans consume and fully 97% of our transportation fuels. And fuels are cleaner these days; thanks to improved automobile technology and cleaner-burning gasoline, today it would take 37 new cars to produce the same tailpipe emissions as one new car in the 1960s. In providing for these needs, between 1990 and 2000, the U.S. oil and natural gas industry spent about \$98 billion to protect the nation's environment. In 2000, these expenditures were \$7.8 billion, of which 22% (or \$1.7 billion), was accounted for in the exploration and production of oil and gas.

—Compiled from the American Petroleum Institute website at www.api.org

FIERY PHENOMENON

Harold Sugden, renowned and well-traveled member of our profession, recently regaled a group of us with his observations of the aftermath of the McNally fire in the Sierra of central California. He showed us two pieces of blackened granite that had spalled off the face of a cliff in a steep, narrow canyon near Johnsondale. One side of each narrow disk of crystalline rock had a satin luster and appeared to have been partially melted from the heat of the fire. Looking up the melting temperature of various granitic minerals in our *Dana's Textbook of Mineralogy*, we concluded that the rock face must have experienced temperatures of at least 900°C. Harold also described chunks of bark that had been ripped from the trunks of mature trees and shredded bark hanging from the up-canyon side of large pines. We concluded that these events were the result of a high-velocity, very hot wind originating in the nearby fire and blowing up the narrow canyon, focusing and intensifying the heat as the canyon's width diminished. No one in the group had heard of such a phenomenon, and we were sure it was unique. We dubbed this phenomenon of focused hot air that shreds everything in its path the "Sugden Effect." Those of you who know Harold will understand just how appropriate this appellation is.

—Randy Metz

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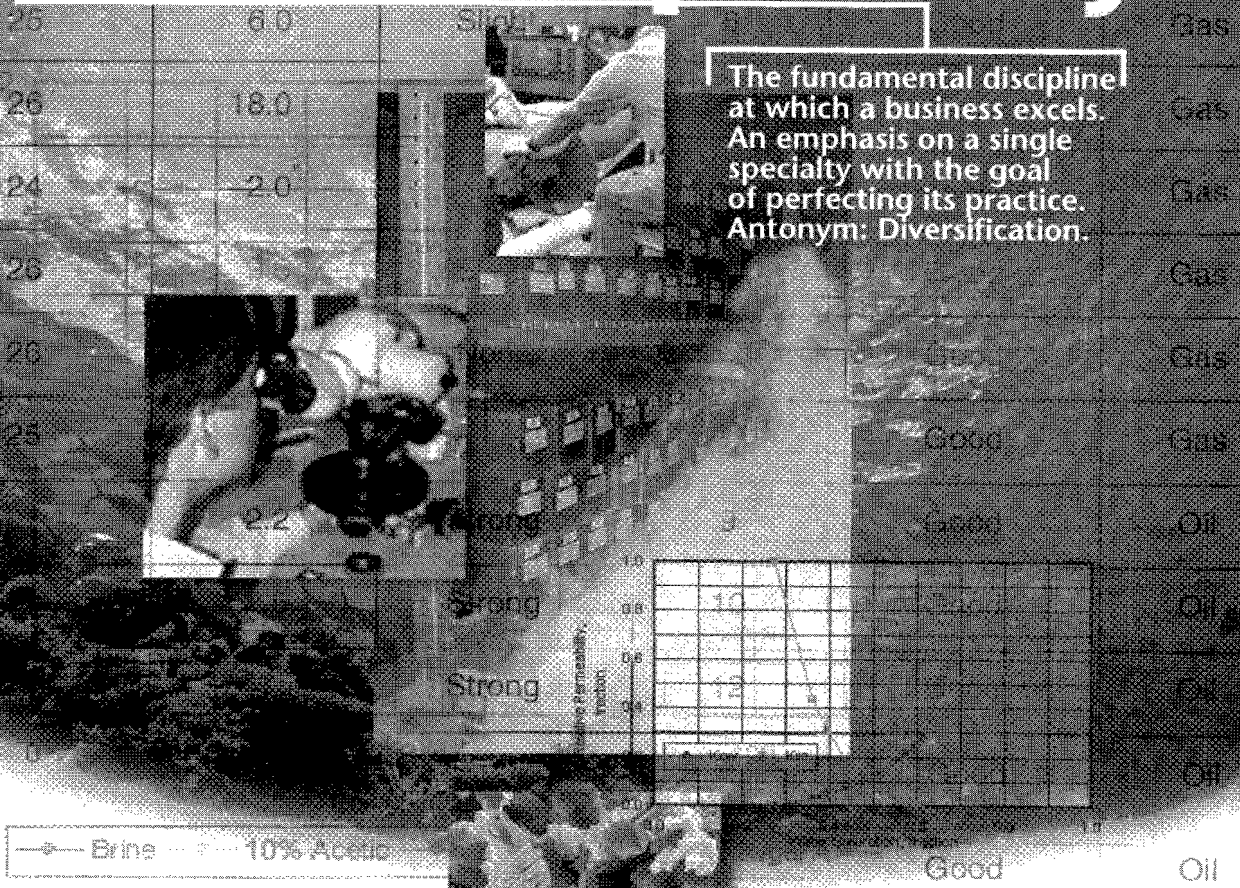
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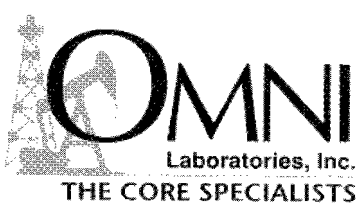
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2002 Oil Baron's Ball

API's annual Oil Baron's Ball will take place on November 9 in the Grand Ballroom of the DoubleTree Hotel in Bakersfield. This gala black-tie event has become a formal tradition in Bakersfield and the premier social event that everyone looks forward to attending. All proceeds fund scholarships to local students. Come join in the excitement, see who will be the Oil Baron and Oil Baroness this year, and enjoy a great evening of dinner, dancing, champagne, and entertainment with your friends. Tickets are \$50 per person or \$500 per table of 10. For more information or to make reservations, contact **Christine Luther** at 661-831-8782 ext. 181, **Weldon Sons** at 661-763-6701, or **Terry Varner** at 661-391-1505.

PTTC Workshops

Upcoming workshops of the Petroleum Technology Transfer Council West Coast Resource Center will address well logging methods and forecasting issues. For information, visit www.westcoastpttc.org or contact PTTC at 213-740-8076 or pttc@archie.usc.edu.

- *New Well Logging Methods*, November 21, Valencia, CA
- *Oil and Gas Supply and Demand Forecasts—Legal, Environmental, and Taxation Issues (Anniversary Forum)*, December 6, Los Angeles, CA



UPCOMING CLASSES AT THE GEOTECHNOLOGY CENTER!

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Introduction to UNIX

Course participants will develop an understanding of the UNIX File System and become familiar with basic UNIX commands used to facilitate working with UNIX-based mapping software including: communication, navigation, file management, searching, comparison, redirection, and storage commands. [2 credits*]

Instructor: Karen Blake (Paulsson Geophysical)
Course Meetings: Monday & Wednesday nights, 6-9 p.m.
 November 11, 13, 18, 20, 25 & December 2, 4, 9
Location: CSU Bakersfield, Science II Building, Room 348

Cost: \$350
Registration Deadline: November 1, 2002
Maximum Enrollment: 12

Introduction to GeoGraphix GESX

This course is designed to familiarize the geoscientist with the GESXplorer software program. It uses a hands-on approach to introduce the comprehensive data management and mapping package to the novice and intermediate user. Topics include importing data, managing cultural and well data, building basemaps, creating cross sections, contouring subsurface data, working with faults, generating structure and isopach maps, and generating display montages. [2 credits*]

Instructor: Mark Yarlot (Berry Petroleum)
Course Meetings: Tuesday & Thursday nights, 6-9 p.m.
 January 7, 9, 14, 16, 21, 23, 28, 30
Location: CSU Bakersfield, Science II Building, Room 278

Cost: \$375 (includes manual)
Registration Deadline: December 15, 2002
Maximum Enrollment: 12

Registration

Without University Credit:

Send contact information (phone number and/or e-mail address) and a check (payable to CSUB Foundation-GTTC) for the entire course fee to Dr. Jan Gillespie, Department of Geology, California State University, 9001 Stockdale Highway, Bakersfield, CA 93311.

* With University Credit:

Each course counts as 2 credits of Geology 577 (Instruction in Geotechnology). Students must apply to the University and enroll in Geology 577 in order to receive credit.

For more information about the local and cost-effective training offered at the Geotechnology Training Center at California State University, Bakersfield, visit the website at www.cs.csusbak.edu/Geology or contact Jan Gillespie at 661-664-3040 or jan@cs.csusbak.edu.



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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 2003 issue is December 5, 2002.

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

November & December 2002 password: porosity

January & February 2003 password: seismic

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