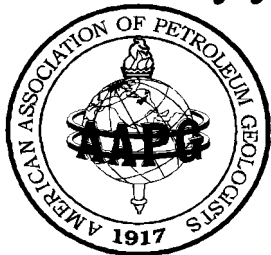


PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



of the Pacific Section
American Association of Petroleum Geologists

May 1998 NO.5

A MESSAGE FROM THE PRESIDENT

At the time of this writing, the '98 convention is in its final stages of preparation. The early returns for registration look good with potentially no cancellations to any event or activity. I would personally like to thank everyone on the convention committee and the Coast Geological Society. Your tireless commitment is the backbone for the convention and the soul of the relationship between the Pacific Section and its local affiliations.

One of the most frequently asked questions I get as president of the Pacific Section is "What is the relationship between Pacific Section and my local geologic society?" Even though I've heard this question several times in the past few months, I like it when people are curious about the organization and want to know more. Since there maybe others out there in *Geoland* who would like to know about this relationship, I thought I would mention it in my column.

The Pacific Section is a non-profit organization with its main purpose being to advance the geological sciences and the professional well being of its members. The Pacific Section has chosen to affiliate with other geologic organizations to further this purpose and to cooperate in their activities. There are seven geologic organizations (see "News from the Societies") that are affiliated with us and are represented as members of our executive committee. This executive committee meets every other month to embark on projects and make decisions to further the Pacific Section's purpose. For example, the Section along with the local affiliates, put on conventions, field trips, and short courses, publishes books, maps, and cross-sections to raise money which in turn gets dispersed to support worthy geological causes, promote science education, and public relations.

What most members of local geological societies aren't aware of, is what the Pacific Section gives back to its local societies. A portion of your membership dues are rebated, we publish a comprehensive membership directory with SEPM

and SEG which provides one of the most valuable tools for keeping up with geological contacts, we fund AAPG Distinguished Lecturer's to speak at the local societies, and we have several programs that provide scholarships for students and faculty that can be applied in affiliated society areas. Finally, the Pacific Section Newsletter and our Website <http://www.west.net/~psaagp>, is the glue for coupling the Section and the local societies together and keeping all-aware of what's going on along the West Coast.

I hope everyone noticed our new calendar in the last newsletter. Our hope is to have an all inclusive calendar, suitable for your office wall that contains worthy geologic events impacting the members of the Pacific Section. At a glance, you will be able to note when all seven local societies are having their meetings, how the National AAPG convention impacts your daily routine, and when to set aside time to attend an upcoming field trip.

If you happen to be reading this newsletter and are not a member of the Pacific Section, I urge you to join. The benefits to you, your profession, and your local society are too good to pass up. If you are already a member, urge others at your local society to join and help them be in the know.

- Dalton Lockman, President

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Pac Sec Executive Committee Announces Honors and Awards Recipients for 1998

The Pacific Section AAPG Executive Committee is pleased to announce its honors and awards for 1998. These include four honorary life memberships and one distinguished educator award. **Certificates of Honorary Lifetime Membership** are presented to **John A. Carver, John A. Minch, Jack C. West, and Thomas Wilson Jr.** **Dr. Robert S. Gray** of Santa Barbara City College is being honored with the **Distinguished Educator Award**. All awards will be presented at the 1998 Pacific Section Convention. A reprint of the honoree's citation will be included in the next newsletter.

Honorary Membership is bestowed upon persons who have distinguished themselves by their service and devotion to the science and profession of petroleum geology and to the Pacific Section. The Distinguished Educator Award is given in recognition of distinguished and outstanding contributions to geological education.

SEPM Announces New Pacific Section Officers

President: Richard L. Sedlock

Dept. of Geology
San Jose State University
San Jose, CA 95192-0102
Phone: 408-924-5020 Fax: 408-924-5053
email: sedlock@geosun1.sjsu.edu

President Elect: Eugenia M. Sangines

Vice President: Tom Anderson

Secretary: Scott Starratt

Treasurer: William Elder

Conglomerate Compilation Nears Completion

(say THAT three times fast!!)

A compilation of nearly 200 conglomerate-bearing formations outcropping, or in subsurface, in California is nearly completed. As some data (10 % \pm) are incomplete, we would appreciate help from anyone who wishes to add to, or correct, entries to the compilation.

The data, available on 3.5 inch IBM compatible disk (408 K bytes), contains 16 data fields including Depositional Environment, Source and Transport Direction, etc. If you obtain a disk from us, you may use the data as you wish. A free disk will be sent to you when the study is finished.

To obtain a copy, please send \$ 7.50
(students \$ 5.00) to either:

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or

Steve Spear
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Paul L. Hurning

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U.C. Berkeley Extension Course Explores Plate Tectonics

*PLATE TECTONICS: New Data and
New Interpretations*

Saturday, May 9, U.C. Berkeley campus

Conference Coordinator: Doris Sloan, U.C. Berkeley

PROGRAM

The Tectonics of the Western United States

Tanya M. Atwater, Ph.D.; Department of Geological Sciences, U.C. Santa Barbara

Exploring for Resources with Plate Tectonics

David G. Howell, Ph.D.; Research Geologist, USGS Menlo Park

Volcanoes and Earthquakes at Plate Margins

Barbara Romanowicz, Ph.D.; Professor of Geology and geophysics, U.C. Berkeley

Plate Tectonics Moves Continents and Eats Them Too

David Scholl, Ph.D.; Scientist Emeritus, USGS

May 9: Saturday, check-in 8:30-9:00 a.m.;
program 9:00 a.m.-4:30 p.m.

Berkeley Campus: 105 North Gate Hall

Cost: \$50 / EDP 033654

For enrollment information on either course series,
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K-12 ACTIVITIES

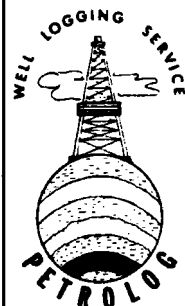
Paul Henshaw

The school year is coming to an end. Thank you to all of you that supported your local and county Science Fairs, Science Bowls, etc. If you have news of programs...drop me a note.

The Pacific Section's program for awarding **Excellence in the Teaching of Natural Resources in the Earth Sciences** has moved forward. There will be an award given at the April Pacific Section Meeting to a deserving teacher from the Santa Barbara/Ventura area. This award winner will also be considered for the National award, next year. Don Lewis and I have discussed the possibility of several Pacific Section winners, perhaps as many as one/chapter. To institute such a program, we need volunteers from each chapter to help coordinate our efforts. I need some of you to step forward!!

There are currently two training programs for science teachers that AAPG has helped set up in the past: Rocks in their Heads and the Denver Earth Science Program. If you would like to find out more about these programs call/e-mail me. The Pacific Section will help defray costs. There will be a session of Rocks in their Heads run during the Pacific Section Meeting in Ventura, in April.

Let us know what you are doing to help your schools. Send a note to phns@chevron.com or call me at (805) 395-6436.



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May Meetings of Note

S	M	T	W	T	F	S
					1	2
3	4	5	6 NCGS Mtg.	7	8	9
10	11 SPE Regional Bakersfield	12 SJGS Mtg.	13	14 LABGS Mtg.	15	16
17 AAPG Natl. Salt Lake City	18	19	20	21 NCGS Mtg.	22	23
24	25	26	27	28	29	30
31						

June Meetings of Note

S	M	T	W	T	F	S
	1	2	3	4 AGS Field Trip	5	6
7 AGS (cont.)	8	9 SJGS Mtg.	10	11	12	13
14	15	16	17	18 LABGS Mtg.	19	20 NCGS Picnic
21	22	23	24	25	26	27
28	29	30				

A Plaque for the First Gusher

Fred Ripley was in Bakersfield when he received the telephone call from an excited Jim Mays, the Superintendent, saying their Midway wildcat was blowing oil over the top of the derrick.

On that November day in 1909, an elated Ripley hurried out to the well site on sagebrush covered ground near the terminus of the Sunset spur line, which had been built to serve the burgeoning oil development on the west side of California's San Joaquin Valley, 40 miles west of Bakersfield.

Ripley had come to Midway for the first time four years before as assistant manager of oil properties for the Santa Fe Coast Lines of the Atcheson, Topeka and Santa Fe Railroad, which owned Chanslor- Canfield Midway Oil Company, the company drilling the Midway wildcat. The well was not the first at Midway for CCMO, which had completed some shallow, marginally economic wells and built a small camp to furnish housing for employees before Ripley's arrival.

Ripley's trip to the CCMO camp in 1905 had been by a combination freight-and-passenger train to McKittrick, a small oil town northwest of the camp, and the remainder of the way, about 12 miles by mule team over a rough road churned into dust by the 20-horse teams that transported supplies to oil field operations from McKittrick to Maricopa, 20 miles away. The teamsters often stopped their teams to rest midway between the two small towns, giving rise to the name Midway.

Not long after his introduction to the desert-like landscape with its sparse forest of wooden derricks, Ripley had become convinced that the Midway area held far more oil potential than had been proved up by the 40 to 50 barrels-per-day wells completed by CCMO. He had advised Santa Fe to buy more land. The company had given him the necessary authorization, enabling him to purchase about 2,500 acres, paying as little as \$50 an acre for some of the undeveloped land.

Ripley had studied a contour map given him by the noted government geologist, Ralph Arnold, and placed two check marks on it. One was on the Belgian Queen property, 12 miles northwest of the CCMO camp, where three shallow wells backed by Belgian capitol were said to be producing as much as 100 barrels per day. The other mark was on the Mascot Oil Company's wells on 25 Hill, 5 miles south-east of the CCMO camp. The

wells were rumored to be producing at higher rates than the CCMO wells.

The Belgian Queen and Mascot wells were below the 1,500-foot contour line on the Arnold map. The CCMO wells were at higher elevation where the San Joaquin Valley floor rose into the foothills of the Temblor Range that formed the western boundary of the valley. Ripley pondered the significance of this fact and concluded the key to better production lay below the contour line. He picked a down slope drill site for an exploratory well designated No. 2-6 one and one-half miles from the CCMO camp.

On June 1, 1909, the task of drilling the Midway wildcat began against a background of some doubts, in large part because an earlier wildcat drilled by a group of Bakersfield businessmen had proved dry at a depth of 1,500 feet after encountering only a small showing of tar sand.

Almost six months later, the company's crews were down to a depth of 1,420 feet when No. 2-6 roared in making 2,000 barrels a day, giving Kern County its first gusher and the company that would become the predecessor of Santa Fe Energy Resources its first major production.

On December 29, 1909, the Los Angeles Times reported, "When the big Santa Fe gusher suddenly began to spout oil 30 days ago, a boom was inaugurated that is causing a town to spring up around the great well."

One of the major contractors in the building boom was Charles Fellows, whose Fellows Construction Company had laid the railroad line from Maricopa to Midway. Before the embryo town had time to claim a name, freight destined for the end of the line was shipped with the instructions, "Drop it off for Fellows." Thus was born the town named Fellows. The two-story Fellows Hotel opened little more than a year after Midway gusher blew in. Some 80 years later the hotel would be moved to a part of the Kern County Museum in Bakersfield.

A silent spectator to the Midway gusher and the record development that followed to make the Midway-Sunset field the top producing field in California and in the 1990's the third most productive field in the U.S. became a historical marker that stands near the community park at Fellows. Placed there by the Petroleum Production pioneers in 1951 and recognized by the state as a registered state landmark six years later, the plaque reads:

(Continued on page 10)

First Annual CCGO Fund-raiser Addresses Need for Geoscience Education in Society

By Dan Day

***“Civilization exists by geological consent
- subject to change without notice”***

Will Durant

A crowd of over fifty enthusiastic geoscientists greeted featured speaker **Dr. Eldridge Moores**, U.C. Davis Geology Professor and world renowned plate tectonics expert, at the First Annual **California Council of Geoscience Organizations (CCGO)** Fund-raiser on March 11th at the Old Spaghetti Factory in Oakland. His talk ***“Society and Geology: A Call For Action”*** was presented in Dr. Moores’ usual humorous and engaging style. But its theme runs true throughout America today: our society is on the brink of an educational crisis in the Earth Sciences. Public knowledge of geoscience related topics are, in general, lacking, but there is nonetheless a great public interest in the earth sciences when these subjects are discussed.

Eldridge pointed out that there is currently very little government support for the earth sciences, and that today’s educational system is producing a populace that is either science literate or appallingly science illiterate. John McPhee, author of the book *Assembling California*, which draws heavily from his acquaintance and field jaunts with Dr. Moores, has been puzzled by the absence of geological knowledge in American society in general, when he himself has found it so interesting.

Science Education

To probe this dilemma, Eldridge embarked on a brief history of science education, noting that geology is a relatively young discipline compared with other fields like mathematics or physics. Prior to 1776, only a few geological topics had been given any serious thought, mostly by Greek philosophers, and primarily as curiosities of nature. Geological awareness was stimulated by the Great Lisbon Earthquake in which thousands perished and much of the city was destroyed. A period of rising geoscience awareness occurred between 1776 and 1836, followed by the zenith of geological thought from 1836 to 1896. The latter saw the seminal works of

Hutton and Lyell, the development of basic geological theory, and the establishment of the relative geological time scale by stratigraphers in Great Britain. The turn of the century saw a vicious attack on the currently held time frame for geological processes by the renowned British physicist Lord Kelvin, who independently arrived at a much younger age for the earth base on detailed heat flow and cooling rate calculations.

The last 100 years have seen geology develop into a hierarchical science with the introduction of Continental Drift theory by Wegner, the establishment of an absolute time scale by Holmes using natural radioactivity, an explosion of chemical and isotopic techniques in geology following World War II, and the use of remote imaging applications with the advent of the NASA Space Program. Five key revolutions in geological thought have been born since the early Nineteen Century: 1) concepts of evolution (in conjunction with the biological sciences), 2) the age of the earth (time scale and rate processes), 3) plate tectonics, 4) the earth in space and the planetary sciences, and 5) remote imaging and mapping. The contributions of these major breakthroughs to geological thought and our own concepts of the earth and the solar system are astonishing. Plate tectonics theory alone has redefined the forces that sculpt our planet. It has defined geological terrais, simplified the complex geological histories of many regions, and has made significant contributions to resource exploration.

Geology’s Role in Civilization

Geology has played a pivotal role in mankind and culture throughout history. Dr. Moores identified geology as an integral part of Greek Mythology and of Native American societies and other civilizations in tectonically active regions. Its misunderstanding in our society appears to be rooted in its descriptive nature as opposed to the more quantitative nature of those fields that sociologist Courtney Mather dubbed as measurable disciplines. Mather classified knowledge into two categories: that which can be measured and quantified, and that which is inherently immeasurable. Eldridge argued the importance of immeasurable or intuitive concepts to human philosophy. Geological theory itself is analytical, historical, and synthetic in scope and draws extensively on basic philosophical premises for its theoretical foundation. Today’s focus on the technological explo-

(Continued on page 7)

(Continued from page 6)

sion, however, has caused a divergence in the earth sciences and the quantitative disciplines needed to drive the electronic age.

New Paradigm Needed

Dr. Moores proposed a new educational paradigm for the coming decade that will familiarize our society with the geosciences. Our K-12 educational curriculum was established in 1894 and encompassed geography, botany/zoology (later integrated into biology), chemistry, mathematics, and physics. There was little emphasis on geology and evolution. Today we must introduce geoscience as a discipline in our primary, high school, and adult education programs. This will require a stronger geoscience presence in our local, state, and federal political arenas. Colleges and universities should offer geoscience majors, and expand the diversity and scope of geological programs to include topics of international importance. Two perspectives should be embraced, one basic and applied and the other with emphasis on extractive and environmental issues.

What does the future hold? Dr. Moores sees geoscientists helping to usher in stewardship of planet earth, making a new "social contract" with the public, and developing new field geological techniques utilizing GPS (global positioning satellites), digital maps, and remote imaging. Steps will be taken to provide accurate geological hazard assessments (floods, earthquakes, volcanoes, and landslides). There will be efforts to increase public awareness at the K-12, college, and adult levels. Eldridge foresees a more responsive social conscience that will address the impending resource crisis, in part fueled by the end of the oil economy, as energy consumption and resource usage in the developing nations approach our own domestic levels. He also predicts a revival in NASA imaging of planetary objects with renewed public interest in space exploration. His concluding remarks emphasized that the earth sciences are intrinsic to humanity, that our science policy is in crisis, and that our current geology curriculum needs revision to educate the masses.

NCGS Hosted Meeting

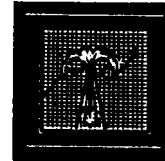
As host to this first annual CCGO fund-raiser, the Northern California Geological Society offers its sincere thanks to Dr. Moores for accepting the CCGO's invitation to be keynote speaker at this event. Eldridge's

continuing efforts to champion the geosciences in the public and political domains are commendable, particularly in light of his busy academic responsibilities.

Also worthy of mention at this time is CCGO founder **Robert Tepel** of the Santa Clara Valley Water District, whose vision and hard work were instrumental in getting the CCGO concept presented to geoscience organizations in California. **Betsy Mathieson**, CCGO Interim Executive Director, deserves credit as well for a monumental effort in organizing, typing, and distributing meeting agendas and minutes, and for playing a key role as a founding member and avid proponent of the CCGO here in the Bay Area. **John Karachewski**, NCGS President, deserves recognition for handling the reservation and bookkeeping duties, and for serving as NCGS spokesperson at this event.

The California Council of Geoscience Organizations advocates the use of sound geologic knowledge and practice by proposing, reviewing and monitoring statutes, regulations and public policies. **For more information contact Jim Jacobs at : AugerPro@aol.com.**

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Connie Selgrath, Principal

SJGS Holds West Side Field Trip

March 20, 1998 was the day the San Joaquin Geological Society held their field trip to the west side of the San Joaquin Valley to view and discuss valley stratigraphy.

It's All in the Preparation...



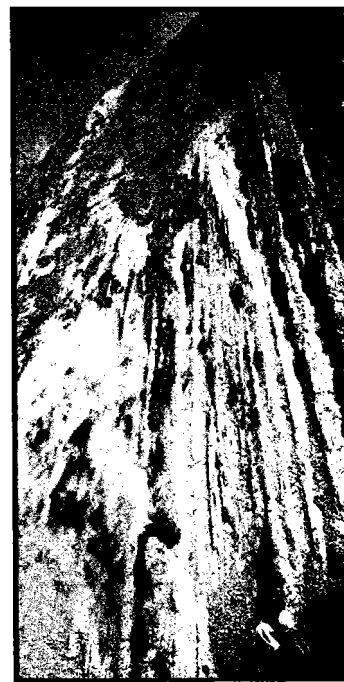
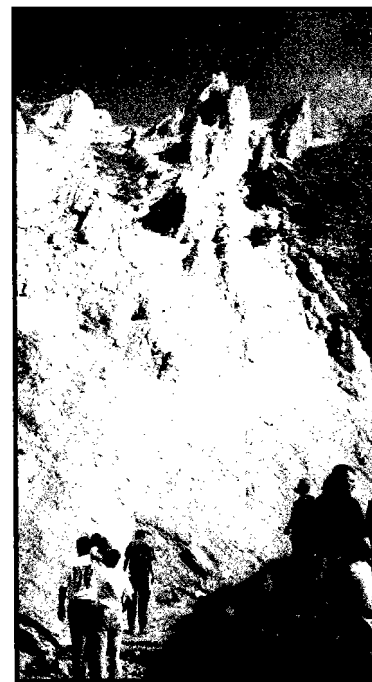
"El Nino hasn't slowed field work in the SJV. Mike Clark surveys route of the Spring Field trip with assistance from Mike Ponek."

At The Button Beds...

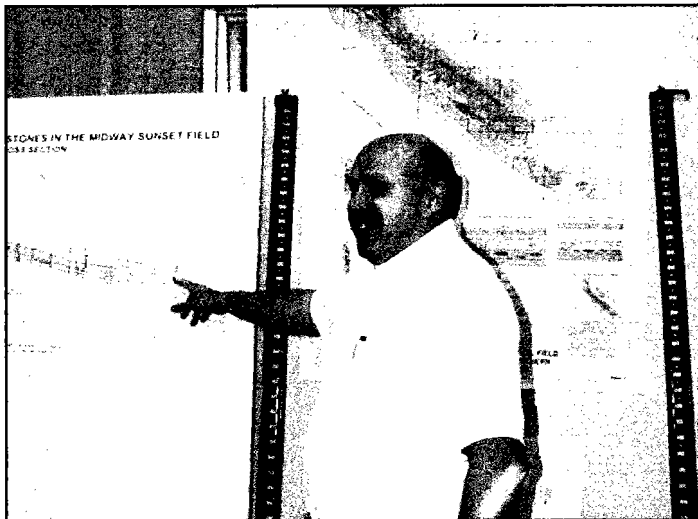
Thanks to Lisa Denke for the photos!



Chico Martinez Creek...



At the End of the Day... Thanks to Dan Fargo for these pictures!



Dan Fortier explains what they saw during the trip.



Jaime Roig mans the BBQ.

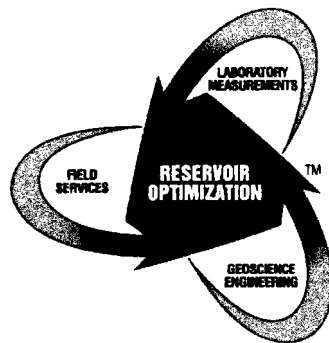


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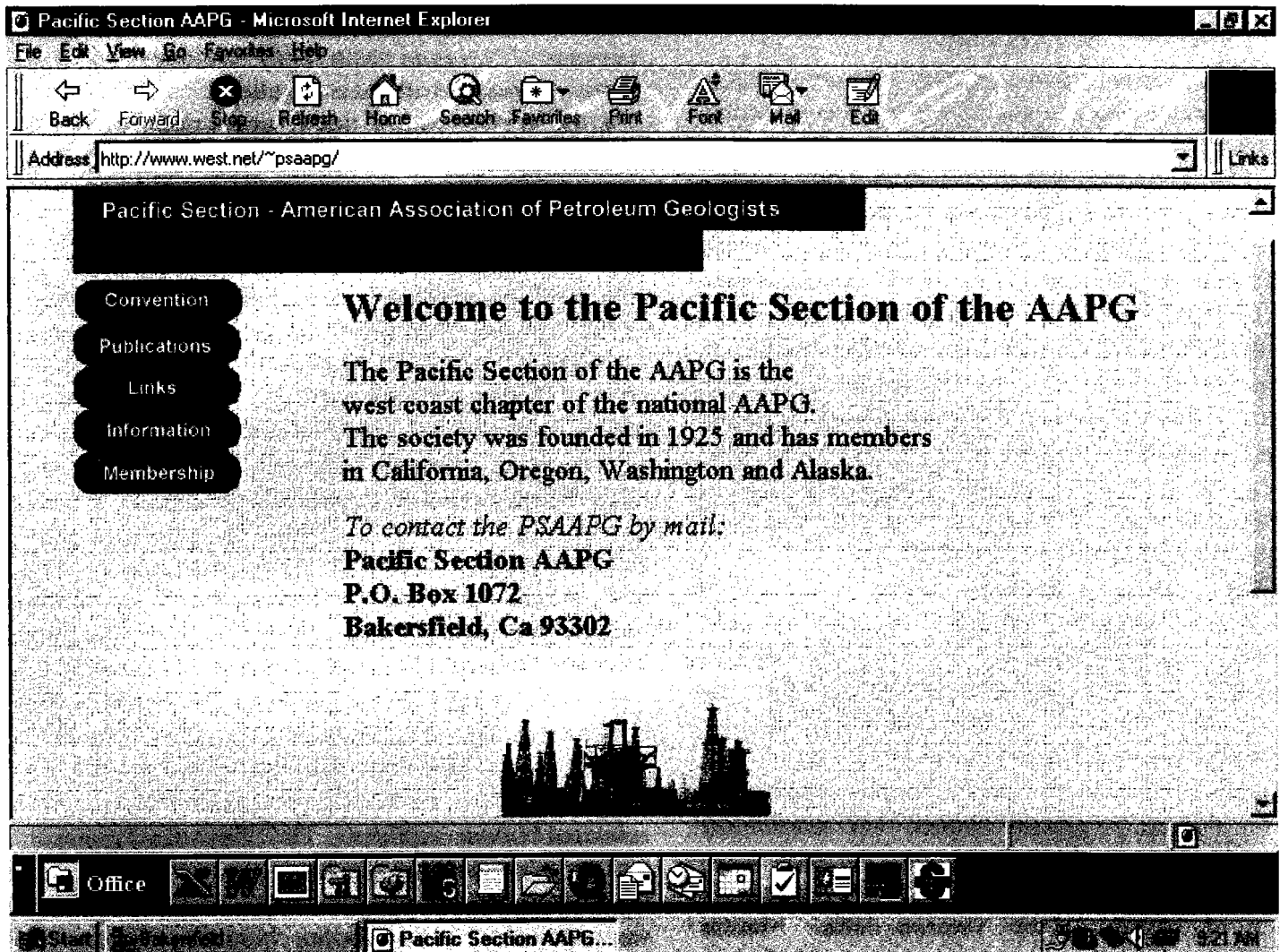
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LOW OIL PRICES PROMPT SENATE ACTION ON STRATEGIC PETROLEUM RESERVE

Although consumers no doubt enjoy paying less than a dollar per gallon at the pump, low oil prices have prompted a crisis in the petroleum industry, particularly among small independent producers. On March 26th, in an effort to avoid further depressing prices, the Senate unanimously adopted an amendment by Senate Energy and Natural Resources Committee Chairman Frank Murkowski (R-AK) that would repeal the planned sale of \$207.5 million worth of oil from the nation's Strategic Petroleum Reserve. The sale previously was approved as part of the fiscal year 1998 appropriations process and was the fourth such sale since 1995. Murkowski and Sen. Jeff Bingaman (D-NM) had fought a losing battle to stop the original sale last fall, warning that repeated sales from the SPR at a time of record oil imports represent unsound policy. The amendment repealing the sale was attached to S. 1768, an emergency supplemental appropriations bill to pay for El Nino-related natural disaster relief and for overseas peacekeeping efforts.

(Bill Rintoul: Continued from page 5)

FIRST GUSHER Midway Field-well No.2-6

The Well Which Made The Midway Oil Field Famous Near an area of small 40 and 50 barrel wells. It blew in over the derrick top November 27th 1909 with a production of 2000 bbl a day and started one of the largest oil booms California ever experienced.

New Concepts of Turbidite Analysis Presented at March NCGS

Meeting

by Dan Day

A stimulating lecture discussing new data and interpretations of meandering channel turbidites was presented to a capacity crowd at Chevron Park, San Ramon, on March 12th by AAPG Allan P. Bennison Distinguished Lecturer **Dr. Trevor Elliott** of the University of Liverpool. Dr. Elliott gave an outstanding talk that combined careful field work, numerous section measurements, cross sectional diagrams, and spectacular photos of an unusually well exposed sandstone turbidite complex in the Upper Carboniferous Ross Sandstone in western Ireland. *A Renaissance in the Analysis of Turbidite Systems?* posed this question to the crowd: Is the intricate meandering channel type turbidite complex compatible with our view of the turbidite generation mechanism as an ignitive, slump-initiated event?

With this question in mind, Dr. Elliott proceeded to describe the structural architecture of meandering channel turbidite complexes using side scan sonar and 3-D seismic images of marginal delta deposits in Zaire, and in the Amazon, Mississippi, and Indus River systems. The picture that emerged was one of an intricate channel system with a very shallow slope (2 to 3) composed of extremely sinuous, ptygmatic channels that occasionally reverse direction in their convoluted journey down slope. These channel complexes can be traced for distances of 70 km. in the Amazon delta. Similar interfingering channel systems have been identified in the Mississippi delta, the West African continental slope, and along the continental margins of the Gulf of Mexico.

Dr. Elliott shifted to his field area at the mouth of the Shannon River in western Ireland, where the Ross Sandstone is beautifully exposed along the coastal estuary. Dr. Elliott's photographs of these sandstone outcrops are outstanding, and were taken during one of the rarer sunny hiatuses in the normally dismal western Ireland weather pattern. The channel complex was deposited in an Upper Paleozoic intracontinental basin that evolved and gradually filled during Carboniferous times. The basin sequence ranges from deepwater muds through a turbidite section to continental slope deposits, and culminates upsection with fluvial/deltaic sediments. The sands form a unique high resolution stratigraphy with sequence recurrence intervals of 50,000 to 65,000 years based on marine sedimentary bands and condensed hori-

zons. The depositional scenario is one of a deepening basin with an early-stage sediment-starved period characterized by the accumulation of deepwater organic shales and prolonged condensed zones followed by a period of infilling with clastic sediments in a prograding sequence of marginal basin sandy turbidites and fluvial-deltaic sediments with incised valleys.

The interpretive picture that emerges from this detailed study calls upon a mechanism other than a traditional slump-initiated high energy event to produce the meandering turbidite morphology. An alternative model calls upon an underflow (hyperpycnal flow)-generated process involving sediment-laden density currents that sink to the bottom. Periodic flooding in a low stand delta environment is a possible scenario for underflow triggered turbidite channel deposits. The traditional turbidite model requires sudden slump-induced events with low frequency recurrence intervals, rapid deceleration of the turbidity current, and a decisively erosional character as it passes over the bottom. Its key architectural features include variable bed thickness and relatively few events over a given time interval. In contrast, underflow-induced turbidites are associated with higher recurrence rates, have a more restricted size and sediment volume, and have a steadier, more sustained depositional interval. Key architectural features are the restricted size, high recurrence frequency, and abundant small scale, low relief channels incised into the unconsolidated bottom sediments. Dr. Elliott also commented that the substrate grain size may have an influence on the meandering nature of the turbidites, with coarser grain sizes allowing a more complex channel system to evolve than finer silts and muds.

The NCGS wishes to extend its thanks to Dr. Trevor Elliott for a stimulating talk on new interpretations of turbidite structures.

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NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska

Upcoming Luncheon Calendar

Date: May, 1998

Title: To be announced

The April 16, 1998 meeting featured the talk: Integrated Reservoir Description Using Core, Wire-Line Logs, 3-D Seismic and Production History: Field Development Case Studies of Deltaic and Deep-Water Sands, Offshore Nigeria. The speaker was AAPG Distinguished Lecturer Ron Kreisa of Mobil Technology Company.

The AGS will be sponsoring a Dalton Highway Field Trip from Thursday June 4th through Sunday June 7th. The trip will feature a tour of the Prudhoe Bay and Endicott Facilities and a guidebook. Transportation to and from Fairbanks to Prudhoe Bay is included. For more information contact Dick Garrard at (907) 265-1536 or e-mail: rgarrard@mail.arco.com.

*Alaska Geological Society
P.O. Box 101288
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Coast

May 19th will see Dr. Bruce Tiffney, UCSB, speak on "What the Dinosaurs Ate"

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SOUTHBOUND Highway 101 – Take Ventura Ave. Exit, East (Right) on

Thompson Blvd., North (Left) on Palm.

Social Hour – 6:00 p.m.

Dinner – 7:00 p.m.

\$12 – With Reservation

\$17 – Without Reservation

\$ 5 – For Students and K-12 Teachers

Reservations: Please phone the receptionist at : APPLIED ENVIRONMENTAL TECHNOLOGIES 650-1400 by 10 a.m. on the Friday Before the meeting date with your menu selection (Chicken or Beef). Reserve by e-mail to Jim Steele at ttsba@silcom.com.

*Coastal Geological Society
P.O. Box 3055
Ventura, CA 93006
Contact: Joe Scaaf
(805) 650-1400*

Los Angeles

The LABGS has selected Delegates for the American Association of Petroleum Geologists. Serving from July 1, 1998 through June 30, 2001 will be Doug Traxler, Bob Long and George Otott.

The LABGS encourages geoscience students to become members of Pacific Section and National AAPG. Students attending LABGS meetings pay only \$6.00 compared to \$17.00 for full members.

May 14, 1998 Mike Oskin of the California Institute of Technology will speak on Tectonic Geomorphology of Elysian Park at the Long Beach Petroleum Club.

June 18, 1998 To be Announced

July 14, 1998 Rick Hardman will

speak on Induction Logs in Dipping and Directional Holes.

For more information contact -

*Los Angeles Geological Society
c/o Don Clarke
Dept. of Oil Properties
211 E. Ocean Blvd. Ste. 500
Long Beach, CA 90802
(562) 570-3915*

Northern California

NCGS Mt. Diablo Family Picnic

The NCGS has finalized plans for a family picnic at Live Oak Picnic Area (near Rock City) in Mt. Diablo State Park, Danville, CA. on **June 20, 1998** from 10:00 a.m. to 4:00 p.m. A bar-b-que lunch will be served at noon. NCGS member and Chevron retiree **Craig Lyon** will lead a short tour of the local geology geared to lay persons and non-geologists. Cost will be \$15 per three member family and couples, with a nominal increase for larger family groups. Craig is working out the final details, and will prepare a registration form and map to the picnic site for inclusion in the May NCGS newsletter. Be sure to mark your calendars for this fun event—good food, good friends, and great geology in one of the Bay Areas favorite parks!

Meeting Announcement

Landslides, Debris Flows and This Year's El Niño, San Francisco Bay Region

Presented by: Angela Jayko and David G. Howell, U.S. Geological Survey

Date: Wednesday, May 6, 1998

Time: 12:00 noon

Location: Caltrans Auditorium, 1111 Grand Ave., Oakland, located at Webster St. and Grand Ave. (3 blocks SE of the 19th Street BART Station)

This meeting is free and open to the general public on a space available basis. Please make reservations by leaving your name and phone number with Susannah Belding at (510) 286-0625. Please, no food allowed in the Caltrans Auditorium. However, there is a cafeteria in the Caltrans Building next to the Auditorium where you can purchase food or eat your own brown-bag lunch.

*Northern California
Geological Society
9 Bramblewood Court
Danville, CA 94506-1130
Contact: Dan Day
(510) 294-7530*

Northwest

Voting is underway for officers of the NWEA for 1989-99. Results from the April 20, 1998 voting deadline will be reported in the next issue.

On March 13, 1998 Ken Cruikshank of Portland State University spoke on "The 1996 RoyceDebris Flow, Dodson, Oregon" subtitled "Well, Honey, You Finally Got That Rock Garden You Wanted!"

The April 10, 1998 speaker was Congressman Earl Blumenauer, Third District.

*Northwest Energy Association
P.O. Box 6679
Portland, OR 97228-6679
Contact: William Prehm
(503) 557-8432*

Sacramento

Noon luncheon meetings are held at the HUNGRY HUNTER RESTAURANT, 450 Bercut Drive, Sacramento. For luncheon information and reservations, please call Capitol Oil Corporation at (916) 484-3900.

*Sacramento Petroleum
Association
P.O. Box 254443
Sacramento, CA 95865-4443
Contact: Owen Kittredge
(916) 638-2085*

San Joaquin

The Home Pages for the San Joaquin Geological Society at our new site address of <http://www.sjgs.com>, are being provided to us by Kern Internet Services of the Bakersfield Californian.

The April 14th 1998 speaker was Dr. Eugene Fritsche, Cal State University, Northridge, speaking on "Miocene Paleogeography of Southwestern California and its Implications Regarding Basin Terminology".

The April 20th special meeting saw AERA Energy, Core Laboratories and the California State University, Bakersfield Geology Club sponsor Ronald D. Kreisa, AAPG Distinguished Lecturer, speaking on the topic: "Deposition of Deep Water Sands, Pliocene, Niger Delta: Sequence Stratigraphy, Depositional Facies and Sand Body Geometry

and Stacking Patterns".

May 12th will see Dr. Don Lowe, Stanford University, speak on: Sediment Gravity Flows and Their Deposits – Current Issues in Developing Deep-Water Petroleum Reservoirs".

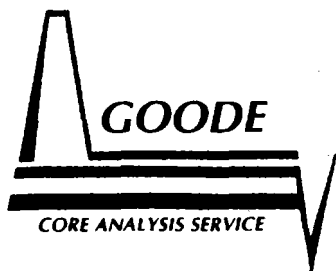
The June 16th meeting will feature John Randall, Chevron, speaking on a topic to be announced.

Dinner Meetings are held the second Tuesday of each month (except summer months) at the American Legion Hall, 2020 H street, Bakersfield. The social hour starts at 6:00 p.m., dinner is served at 7:00 p.m. and the talk begins at 8:00 p.m.

*San Joaquin Geological Society
P.O. Box 1056
Bakersfield, CA 93302
Contact: Tony Reid
(805) 763-6323*

CALIFORNIA WELL SAMPLE REPOSITORY RECEIVES DONATION

The San Joaquin Geological Society donated \$1235 to the CWSR endowment fund. This money was made on its recent field trip to the outcrops along the West Side of the San Joaquin Basin. The CWSR Board of Directors passes along its thanks to the SJGS and all of the field trip participants for their support.



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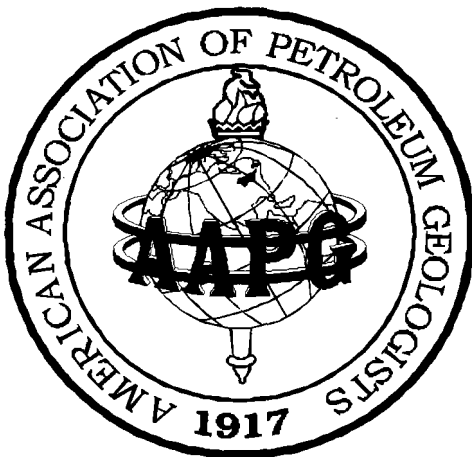
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Bryan Voss
1934 Edinburgh Ave.
Cardiff, CA 92007
(760) 632-1503

AGS Supports Science Teaching in Anchorage

The Alaska Geologic Society has donated \$500.00 to the local "Trailside Discovery" program that focuses on teaching science and nature in the out of doors to children in the Anchorage Bowl region. AGS membership helped get this program underway, both monetarily and by volunteering time to lead field trips and as a result it has turned out to be one of the most satisfying uses of the societies' revenue. The money given is earmarked for scholarships to be awarded to children unable to meet the fee schedule.



**** PUBLIC MEETING NOTICE ****

May 1, 1998 at 6:45AM at the Doubletree Hotel, Ventura, CA

Pacific Section AAPG Foundation

The Executive Committee of the Pacific Section has been working on establishing a charitable foundation for some time. This effort will culminate in a vote to establish the Foundation at our general membership meeting May 1, 1998 in Ventura. The general membership is invited to attend this meeting and participate in this long awaited event.

The Pacific Section from time to time has excess funds and the Foundation will provide a vehicle for both distributing those funds to charitable causes and provide assurance of tax deductibility of contributions to the Pacific Section. One of the larger purposes of the Pacific Section organization is the dissemination of geologic information. Our publications, meetings, and support of community outreach programs fall into this charitable category. The Foundation, in some respects, will just formalize this process and provide focus for these programs. The Executive Committee of the Pacific Section, for instance, turns over every year. The Board of Trustees of the Foundation will have a rotating membership with terms of three years. Greater continuity will result.

The general membership of the Foundation will be the same as the Pacific Section. A Board of Trustees will consist of five elected members and two ex-officer members, the President and Treasurer of the Pacific Section. Business will be conducted through a set pattern of meetings wherein the general membership can attend and make proposals. The Foundation will retain, invest, and distribute funds for the purpose of publishing geologic articles, providing scholarships or funds to scholarships, help fund community outreach programs, and otherwise make charitable contributions toward the objective of public awareness of geology. The objectives are not different than those of the Pacific Section and the Foundation is in fact, at least to some degree, a legal requirement of those activities. The national AAPG and the Rocky Mountain Section are two societies with parallel objectives to the Pacific Section. Both have foundations.

Copies of the Foundation documents being the Certificate of Incorporation of the Pacific Section AAPG Foundation and the Bylaws of the Foundation will be available at the May 1 meeting or afterwards by contacting Mark L. Wilson at 6005 Hesketh Drive, Bakersfield, CA 93309 or any of the members of the Pacific Section Executive Committee.

Foundation Committee: Mark L. Wilson, James Weddle

*Deadline for the
next issue is:
June 15, 1998*

Check out the new Pacific Section
Web Site at:

<http://www.west.net/psaapg>

NEWSLETTER of the Pacific Section - American Association of Petroleum Geologists is published bi-monthly by the Pacific Section. Material for publication, requests for previous copies, and communications regarding advertising costs should be addressed to the editor - **ALLEN BRITTON**, Core Laboratories, Inc., 3430 Unicorn Road, Bakersfield, CA 93308.
E-mail: corebak@ix.netcom.com

CHANGE OF ADDRESS, subscription and membership inquiries should be directed to: **MEMBERSHIP CHAIRMAN, PACIFIC SECTION AAPG**, P.O. Box 1072, Bakersfield, CA 93302.

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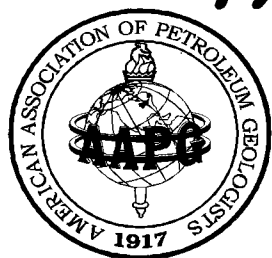
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PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

July 1998 NO.6

A MESSAGE FROM THE PRESIDENT

Ya Hoo, summer is here!

This statement conjures up a different vision for everyone. What does it mean to you? Drilling season? 21% pay raise? Family vacation? Field work?, El Nino?, Relocation?, Field trip? Unbearable heat?, 20 plus hours of daylight? PSAAPG dues renewal? If you answered: *all of the above*, you win!

The 1998 Pacific Section AAPG / SEPM / SEG / SP-WLA Convention in Ventura was a great success. The convention committee, chaired by Jon Schwabach, worked energetically to put together an awesome annual meeting. I believe the location, the exhibits, the strong technical sessions, and the energy of the participants all contributed to the positive feedback we continue to receive. Everyone I talked to seemed to be having a great time. While the books aren't closed quite yet, early returns indicate that a total of 570 people registered for the convention. Of that number, 440 were professionals, 73 were students and 57 were spouses or guests. Forty-two people took advantage of the short courses, and 73 persons attended the three field trips. In a new public service program, 66 teachers from grades 3 through 12 attended a national AAPG sponsored workshop entitled "Rocks In Your Head". The bottom line for you the member --- expanded networking opportunities, quality education, increased public awareness of the science, and a conducive environment to renew old acquaintances. If you have any comments that you feel will make our future conventions better, please give a member of the convention committee a call.

During the convention, the Pacific Section rolled out two new publications - "*Contributions to the Northern Channel Islands*" and "*Structure and Petroleum Geology, Santa Barbara Channel, California*", which are currently selling at a steady pace. An excellent addition to any library, these volumes contain unsurpassed information from the authors experience and knowledge in their respective areas of geological expertise. A major goal of the Pacific Section is to produce publications such as these in order to advance the science of geology and to provide valuable resources for its members.

As the Pacific Section closes it's fiscal year, I want to say thank you for the opportunity to serve you as president. I'd also like to thank the officers who served with me this past year; President-elect, Mel Erskine, Past President, Larry Knauer, Vice President, Terry Thompson, Secretary, Kay Pitts, Treasurer, Joan Barminski, and newsletter editor, Allen Britton.

Have an enjoyable summer!

- Dalton Lockman, President

Inside this issue...

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The Election Results are in...

Pacific Section AAPG Executive Committee
Officers for 1998-1999 are:

President

Mel Erskine (Consultant, El Cerrito, CA)

President Elect

Terry Thompson (Texaco, Bakersfield, CA)

Vice President

Kay Pitts (AERA Energy, Bakersfield, CA)

Secretary

Cynthia Huggins (Texaco, Bakersfield, CA)

Treasurer

Joan Barminski (Minerals Management Service,
Camarillo, CA)

Newsletter

Allen Britton (Core Laboratories, Bakersfield, CA)

Past President

Dalton Lockman (Exxon, Anchorage, Alaska)

Apparently the pink ballot caught your eye because we had a very good return as far as voting goes. In fact it was the best that any of us could recall. Thanks for participating in the election process.

A message to the people that ran for office and were not voted in this year. Thanks a million for getting involved. You will be getting a call next year now that we know where to find you!



Incoming PSAAPG Secretary Cynthia Huggins (Texaco) and President Elect Terry Thompson (Texaco) are enjoying their election victories at the June SJGS meeting.

In Memoriam:

Mr. Peter H. Gardett, BA, '39, UC Berkeley, of Laguna Beach died on April 23, 1998 of coronary artery disease at age 84. He was born in Bakersfield on May 3, 1913 to a pioneering ranching family and went to Bakersfield High School. Pete went to UC Berkeley and was married to Barbara Fleisher the year he graduated. During World War II Mr. Gardett served as a photo reconnaissance officer for the Navy in the South Pacific and the Aleutian Islands. After the war he worked for General Petroleum Co. in Los Angeles and Wyoming. During the 1950's he became an independent consulting geologist and established a small exploration company. He worked extensively with Ted Bear and Phil Kistler. Barbara died in 1965 of cancer and Mr. Gardett married Anne Olmsted in 1967. Anne died in 1995. Pete is survived by two sons, two stepsons, and four grandchildren. Pete Gardett will be missed by his many friends and fellow geologists.

Dr. Richard Merriam, BS, '34, Pomona College, Ph.D., 1940, UC Berkeley, died on April 2, 1998 of complications of Lou Gehrig's disease (ALS). He died in the same ranch house (La Mesita) where he was born 85 years ago in San Marcos. Prior to World War II Dr. Merriam worked for the USGS and during the war he worked on the installation of an aqueduct to provide imported water to military facilities in the San Diego area. He taught the next 30 years as a professor at USC. After his retirement in 1979 he continued to consult until taken ill by ALS in 1995. Dr. Merriam prepared pioneering geologic maps of the north San Diego County. Dr. Merriam will be missed by his students and fellow geologists. He is survived by his daughter, Martha Merriam, son, Robert Merriam, and three grand children.

PSSEG Sets Meeting

The Pacific Coast Section of the S.E.G. is having ART BARNES as the guest speaker on July 8 (northern district meeting in Bakersfield) and July 9 (southern district meeting in Chevron's La Habra office).

The luncheon meeting start at 11:30 am (sign-in and social period); lunch is served at 12:00 noon and the speaker begins at 12:30 pm (he has to eat faster than the others!). The location is BILL LEE's Bamboo Chopsticks on 18 street, downtown Bakersfield.

Art Barnes's topic is "Multi-dimensional Complex Seismic Trace Attributes". He promises that the talk is more fun than the title indicates.

Contact Joel Scott (e-mail: joel_scott@oxy.com) should you need any other related information.

NEW PUBLICATIONS FOR 1998!!!

Pacific Section AAPG Publication MP 45

“Contributions to the Geology of the Northern Channel Islands, Southern California”

Edited by Peter Weigand, Professor of Geology at Cal State University Northridge

196 pages of the latest information on the Channels Islands covering the structure, stratigraphy, microfossils, pygmy mammoths and more. Includes an extensive bibliography of papers related to the geology of the Channel Islands (1977-1998).

\$30/members and \$35/non-members; add \$3.00 per copy for shipping and handling.

Pacific Section AAPG Publication MP 46

(in cooperation with the Coast Geological Society)

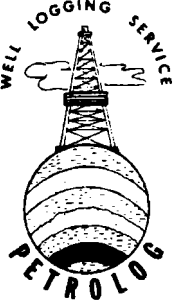
“Structure and Petroleum Geology, Santa Barbara Channel, California”

Edited by Dale Kunitomi, Tom Hopps and Jim Galloway


328 pages of structure, stratigraphy, oil & gas field reviews, historical development and current issues; plus a structure map on the top of the Monterey Formation and two regional cross sections.

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To order - send a check made out to PSAAPG Publications, P.O. Box 1072, Bakersfield, California, 93302. If you have any questions contact Larry Knauer at 805.392.2471 or knauelc@texaco.com.



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July Meetings and Events

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8 SEG Bakers- field	9 SEG La Habra	10	11
12	13	14 SJGS at The Bistro	15 San Diego AG	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



August Meetings and Events

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19 San Diego AG	20	21	22
23	24	25	26	27	28	29
30	31					

BILL RINTOUL

An Oil Company of the Year

An international oil service company with roots that go back to Taft and the boom days that followed the Lakeview gusher of 1910 was honored on March 28 by the Desk and Derrick Club of Bakersfield with the "Oil Company of the Year Award."

At the dinner meeting at the Petroleum Club of Bakersfield, Halliburton Energy Services received the award which Ellen McWilliams, Desk and Derrick president, described as recognition of the corporation that has contributed the most to the Bakersfield Club throughout the past year, not only monetary means but also from their employees participation in the organization and their help in educational endeavors.

Of the company, Ester Wildharber, immediate past president of Desk and Derrick Club, said, "They have contributed to our club in many ways over the years. However, their help in making our first annual picnic last August such a success stands out the most. Halliburton brought in a trailer bar-b-que and cooked tri-tips, chicken and bread that they supplied. Once again we thank them for their continued support of Desk and Derrick."

On hand from Halliburton's Bakersfield office to receive the award for the company were Dennis Lovett, West Coast Sales Manager; Lanny Jones, Technical Advisor; Sharon Gruben, West Coast Shared Service Manager; and Patti Holliday, business Development Assistant.

Erle P. Halliburton, founder of the company that bears his name, was born in September, 1892, on a farm near Henning, Tennessee. His father died 12 years later, leaving Erle, his mother, sister and four brothers in poverty. In 1906 at the age of 14, Erle left home in a cross-country search for work that would help support the Halliburton family.

The search led to a series of jobs in various states and for a time as a merchant seaman in the South Pacific and later as a sailor in the U.S. Navy. In time, he was drawn to the San Joaquin valley by news of oil fields that were

enjoying boom times in the gusher days of wooden derricks and steel men at Taft. Halliburton and his wife, Vida, whom he had married in Riverside, headed for Taft and the shacks and tents that were available for newcomers.

One of Erle's first jobs was a truck driver with Perkins Oil Well Cementing Company, which cemented wells with a method that involved mixing a slurry of cement and water by hand, pumping it down the pipe to a total depth of the well, then forcing the slurry back up the hole outside the pipe.

Halliburton was used to hard work and was soon promoted to cementer. He had an inventive mind and saw no harm in giving the owner of Perkins Oil Well Cementing Company, advice on how to handle the cementing job better. Perkins got tired of being told how to run his business. In 1919, he fired Halliburton.

That same year, Halliburton, convinced his ideas were good ones, placed his bets on Wichita Falls, Texas, and went into business there as the New Method Oil Well Cementing Company. It was not an immediate success. In 1921, Erle pawned his wife's wedding ring to build the Halliburton Measuring Line and to meet the payroll.

He did well enough to get Vida's ring back. Going where more action was, he moved his family and business to Duncan, Oklahoma. The Halliburton Company prospered. In years of domestic and international success that followed, Erle Halliburton did not forget where the oil business got into his blood. He opened branches in Taft and Bakersfield.

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Dr. Clarence Hall 1998 Dibblee Medal Recipient

"Remove geologic maps and the making of geologic maps from geology and you remove the essence of geology..." Dr. Clarence Hall



A large turnout for this year's AAPG-SEPM luncheon presentation of the Dibblee Medal on May 1 in Ventura at the Doubletree Inn was a warm and entertaining tribute to Dr. Clarence Hall.

Professor Clarence A. Hall, Professor and Dean Emeritus at the University of California, Los Angeles, is the 1998 recipient of the Dibblee Medal presented May 1, 1998, at the

Dibblee Luncheon held at the AAPG-SEPM meeting in Ventura, CA. Dr. John Crowell of the University of California, Santa Barbara, in his remarks as citationist stated that Dr. Hall in his prolific career has "made outstanding contributions to geology through geological mapping and the interpretation of his maps" for he is "a master in the difficult science and art of geological mapping which demonstrates regional significance". In highlighting Hall's career, Crowell pointed out that Hall had produced more than a dozen quadrangle-sized maps in the west central Coast Ranges and the White-Inyo Mountains of California, and has mapped along the North Pyrenean fault in southern France. His careful mapping and synthesis of complex country in coastal California from the Monterey Bay region to the Transverse Ranges resulted in "HALLmark" papers supporting large-scale strike slip on some of California's major faults and enabled identification of the Southern California allochthon.

In selecting "influential people in his career and interest in making and interpreting geologic maps", Hall singled out Bob Compton from his alma mater, Stanford, where he obtained his BS (1952), MS (1953) and Ph.D. (1956) with a dissertation on the Pleasanton area, southeast of San Francisco, for the "joy he (Compton) received from helping his students to appreciate what it was that he was seeing and deciphering". At UCLA Hall chose E.L.(Jerry) Winterer, now at Scripps and the University of California, San Diego, who introduced him to the Tick Canyon-Vasquez Rocks area "one of the finest one-square miles of geology that I know of in North America

for teaching students how to map and interpret their mapping" and John Crowell, now at UCSB "when chairmen and managers exercised more authority", for saying, 'Clarence, you are going to teach the UCLA summer field course' and his colleague, Gary Ernst, now at Stanford, "the only person I have ever known who really enjoyed mapping blebs and blobs in the Franciscan Complex".

In emphasizing not only his love of geologic mapping and interpretation, Hall shared his philosophy of geologic mapping for "The field is where geologic problems lie waiting to be found, rethought, or restudied. A geologic map is the essential foundation for studying geologic problems. Yet the useful scientific lifetime of a geologic map is rarely more than 25 to 50 years because new paradigms or new information and thought alter the interpretation of geologic features or cause new elements of the geology to be recognized for the first time, as examples, transform and detachment faults.

Hall went on to conclude, "Remove geologic maps and the making of geologic maps from geology and you remove the essence of geology." Hall's great love of geologic mapping was illustrated by his paraphrasing from Miguel de Cervantes's character Don Quixote, "Journey over all of the Earth in a [geologic] map, without the expense and fatigue of traveling, without suffering the inconveniences of heat, cold, hunger and thirst"; journey back through time; and journey into the interior of the Earth.

Previous recipients of the Dibblee Medal are Lehigh Hintze, (1994), Peter Rowley (1995), Jack Vedder (1996), and Parke Snavelly, Jr. (1997).

Visit the Thomas W. Dibblee Geologic Foundation Web Page at: <http://dibblee.geol.ucsb.edu/> or contact: Dorothy L. Stout, Publicist, Dibblee Foundation at: gaea@deltanet.com or phone School (714) 826 2220 x 153 Home (562) 695 7743.



Tom Dibblee mans his booth at the convention.

15 Receive Honors and Awards in Ventura

Fifteen people received honors and awards during 1998 Ventura Convention in April. Several awards were given to those who have provided excellence to the profession, and science of geology while serving the Pacific Section and the public. Awards and their recipients are listed below. The Honorary Membership and the Distinguished Educator awards include a citation by a colloque.

MARTIN VAN COUVERING AWARD

This Pacific Section of AAPG and SEPM award given to Geoscience Students to encourage attendance at the Pacific Section Annual Convention. Nominations for this award are solicited from faculty at Colleges and Universities in the region of the convention. Eight awards representing four institutions were presented this year: **Frank Dennison and Leni Field**, *California State University Northridge*; **Fabrice Roullet and Jaya Smith**, *Santa Barbara City College*; **Nathan Mulhern, and Craig Scott**, *California Lutheran University*; **Melissa Morse and Mike Richey**, *University of California Santa Barbara*.

A. I. LEVORSEN AWARD

This award recognizes the best paper presented at the previous Pacific Section convention. The winner from the 1997 Bakersfield convention is **Joe Nahama** and his co-author **Rod Nahama**. The title of their paper is "Exploration and Development in the West Tracey Gas Field."

EXCELLENCE IN THE TEACHING OF NATURAL RESOURCES IN THE EARTH SCIENCES AWARD

New for 1998, this \$500. award recognizes a K through 12 teacher who places special emphasis on teaching earth sciences in an effective manner. This award was presented to **Stephen B. Nardi** of *Conejo Valley Unified School District, Redwood Middle School, Thousand Oaks, CA* at the "Rocks in your Head Workshop" for teachers.

DISTINGUISHED EDUCATOR AWARD

Award given in recognition of distinguished and outstanding contributions to geological education, including counseling of students, education of the public, and management of educational programs. The 1998 award was presented during the all convention luncheon to: **Robert S. Gray** of *Santa Barbara City College*

PACIFIC SECTION AAPG LIFETIME HONORARY MEMBERSHIP

Honorary membership is bestowed upon persons who have distinguished themselves by their service and devotion to the science and profession of geology and to the Pacific Section. The 1998 awards were presented during the all convention luncheon to: **John A. Carver, John A. Minch, Jack C. West, and Thomas Wilson Jr.**

At the Ventura All-Convention Luncheon



PSAAPG President Dalton Lockman (l), Honors and Awards Chair Bob Lindblom (c) and AAPG President Edward K. David (r) enjoy lunch.



The luncheon was a sell-out

DISTINGUISHED EDUCATOR AWARD ROBERT GRAY



By G. C. "Butch" Brown

Bob is a native Californian, born in Los Angeles and raised in Pasadena. When he entered college, his goals were to major in physical education with a minor in chemistry and become a coach. While attending Valley College, his track coach suggested that he take some geology courses.

The coach, Jim Slosson, just happened to teach these courses. This move changed his direction of study. Bob continued his education at the University of Idaho. After receiving his BS in 1955, Bob did a tour of duty in the navy aboard a destroyer, which gave him a chance to see the geology in many places throughout the world. Bob returned to school and received his Masters from the University of Arizona in 1959 and then went to work field mapping in Arizona, Nevada, Utah and New Mexico for the U.S.G.S. and then New Jersey Zinc Company. When Jersey Zinc closed its Tucson office, Bob returned to the University of Arizona to pursue study for his Doctorate.

Upon receiving his Ph.D. in 1965, Dr. Gray went to work for Pan American Petroleum, a major producer in the Four Corners area, mapping Pennsylvanian Carbonates. Working with the likes of Lloyd Pray and Phil Choquette, Bob field mapped an area that extended from Sedona, Arizona on the south to the San Rafael Swell, in Central Utah, on the north.

In the fall of 1967, Bob took a teaching position at Santa Barbara City College. At the time he looked at it as an interim step to obtaining a position at a four-year university. As fate would have it, and to the benefit of all those students who were exposed to and inspired by the teaching of Dr. Gray, Bob has spent the last thirty plus years developing an outstanding geologic curriculum at Santa Barbara City College. May he continue to do so for many years to come.

This is the background of a man inspired by a community college teacher, who then himself became an inspiring community college teacher. Bob's goal for the department at S.B.C.C. has been twofold: first to develop a curriculum that fulfilled the prime reason for the existence of the community college system - to build a program that had the courses equivalent to the lower division requirements of the four year institutions in the area. Second was to create a two-year program in the geological and ancillary sciences that would equip a student with the skills necessary to obtain employment upon graduation. To this end Bob helped develop a program that offers twenty-two courses in geology and oceanography. Over the last thirty years between 650 and 700 students have majored in Geology at S.B.C.C. Of this number, approximately 60% have continued their education at a four-year institution and received their Bachelors Degree. This is quite a tribute to Bob Gray and the enthusiasm that he has instilled in students and faculty.

The high percentage of students from Santa Barbara City College who continue on in geology, are often involved in the activities of local geologic associations, including the Coast Geological Society. This dedication to our profession is due in great part to the enthusiasm and teaching skills of this year's recipient. It is my pleasure to be involved in the presentation of The Pacific Section A.A.P.G. Award for Distinguished Educator for 1998.

Congratulations to the following AAPG Grants-in-Aid Recipients in Pacific Section Region Universities

The AAPG GRANTS-IN-AID COMMITTEE is pleased to announce the 1998 recipients of the AAPG Grants-in-Aid awards. This year the Committee received 208 applications and awarded grants totaling \$107,897 to 65 applicants. Of the 65 successful applicants, 7 were from Pacific Section Universities. The Grants are funded by contributions to the AAPG Foundation. Applications are distributed worldwide to all Universities known to offer graduate studies in the Geosciences. Applications are also available on the Internet at <http://www.aapg.org/fdn.html>. Applications for the 1999 program must be submitted prior to January 15, 1999. If you are interested in making a donation to either a Regular Grant or a Named Grant, please contact the AAPG Foundation at (918) 560-2664 for more information.

Congratulations to the following seven Pacific Section Area Recipients:

Brian Joseph Darby

University: University of Southern California

Project Title: Tectonic and Structural Evolution of the Western Daqing Shaw Mountains, China

Kathleen Ann DeGraaff

Peter W. Gester Memorial Named Grant Recipient

University: Stanford University

Project Title: Detrital Zircon Provenance Study of the Methow Basin, North-Central Washington

Kristi Anne Rikansrud

John E. Kilkenny Memorial Named Grant Recipient

University: University of Southern California

Project Title: Holocene Depositional History and Provenance of Southern Margin Basins, Gulf of Canada

Neil John Tabor

University: University of California at Davis

Project Title: A High Resolution Spatial and Temporal Paleoclimatic Assessment of Continental Permian Western Equatorial Pang from Weathering Profiles

Anna Thompson

Raymond C. Moore Memorial Named Grant Recipient

University: University of California at Berkeley

Project Title: Late Cretaceous Floral Changes: Evidence for Pre-Impact Terrestrial Environmental Instability

(Continued on page 9)

(Continued from page 8)

Stephen C. Thompson

Richard C. Hasson Memorial Named Grant Recipient

University: University of Washington

Project Title: Patterns and Rates of Faulting and Folding, and Implications for the Partitioning of Shortening Across the Central Tien Shan Mountains of Kyrgyzstan and China, Central Asia

Yongjun Yue

University: Stanford University

Project Title: Sedimentological Constraints on the Timing of the Altyn Tagh-Alxa-East Mongolia System from the Meso-Cenozoic Basins in Central North China

Lost Los Angeles Basin Data

Historically the Los Angeles Basin has been a prolific oil province. But every thing changes. The price of oil has dropped below nine dollars per barrel, the major oil companies have all but moved out and the independents might move in. The L A Basin is also in a seismically active area. So what is my point? Over the last 100 years geologists have collected and interpreted vast amounts of geological data on the Los Angeles Basin. Much of this data is lost forever. Companies and individuals are throwing out well data and seismic data that cost millions of dollars to collect and interpret! **Why?** Because this data is expensive to keep and maintain, or even worse they don't want someone else to profit from it. This is a crime to the millions of residents in the area. **Mr. Tom Wright, Dr. Stan Finney, Mr. Don Clarke** and others have initiated a plan to save as much of this data as possible so it can be used by academic and government geologists to better interpret the L A Basin geology and seismology.

This is the first call. If you have geological data, interpretations and /or the financial ability to help please contact Stan

Finney at (562) 985-8637. Recently some older geologists who spent their whole lives working out complex problems have passed on. Their families have opted to throw out their lives work to maintain confidentiality. This only worsens the problem because the fine work that was performed by these geologists is lost forever. Please give this idea some serious consideration. The body of our work is important so lets preserve it.

Student Members

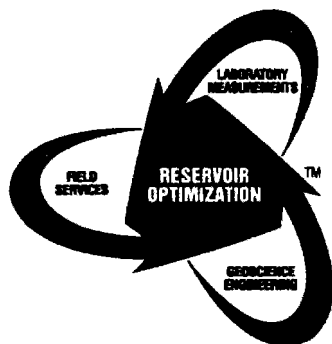
The **American Association of Petroleum Geologists** held a special luncheon at the annual **Pacific Section** meeting in Ventura last month. The attending students were treated to a free lunch, free membership and many other goodies including books, pens, organizers, and rulers.

The **Los Angeles Basin Geologic Society, Pacific Section AAPG** and **National AAPG** are trying to recruit university students for the **AAPG**. Students receive a substantial discount on the luncheon meetings and PSAAPG will pay the first years dues for new student members of AAPG. This is a deal.

LABGS membership costs **\$10.00**, PSAAPG membership costs **\$12.00**, and AAPG student membership costs **\$0.00** (paid by PSAAPG). LABGS luncheon for students costs **\$6.00**, members pay **\$17.00**. It is important to remember that the future of our profession resides in the current student population. We need to encourage early participation at these meetings.

Send your application to **Robert Countryman at Chevron USA Inc., P.O. Box 1392, Bakersfield, CA 93302. This offer ends this summer!**

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AAPG HONORARY LIFE MEMBERSHIP AWARD THOMAS WILSON JR.

By Russ Simonson



Tom was born in Alhambra Calif. In 1923 and lived in his early youth with his family around gold mines operated by his grandfather "Dry-Wash Wilson" in Nevada, California and Arizona. It was there that he developed his interest in geology. He began his geologic education in Gordon Oakeshott's class at Compton Junior College and going on to UCLA before World War II. It was at this time

that he met and married his wife Carol. Interrupted by the war and a few subsequent years as a pilot and 1st lieutenant in the US Army Air Corps, he returned to college to continue his geologic education under Dr. Stephen Dana at the University of Redlands where he graduated with honors in geology in 1948. This was a time of intense activity in the oil industry, geologists were in big demand, and so he took a job with Ohio Oil Company in Bakersfield California. He worked at Ohio for ten years doing field, wellsite, and subsurface geology in the San Joaquin and Salinas Valleys. Among other things, he participated in the discovery and development of Belgian Anticline oil field and did the wellsite work on the world record deep well that Ohio Oil Co. drilled at Paloma oil field. During this time, he was active in the San Joaquin Geologic Society, serving as president in 1957.

In 1958 Ohio Oil Co. sent him to Alaska to do wellsite work on the early wells in the newly discovered Swanson River Oil field in which Ohio had an interest. Later that year he joined a Union-Ohio oil company geologic field party to do mapping in the Cook Inlet and Copper River basins. He moved to Anchorage with his wife Carol and two daughters in 1959. He continued to do geologic work in various areas of Alaska and participated in the development of the Swanson River Oil field and the Kenai and Sterling Gas fields. In 1965 when Ohio Oil Co. changed their name to Marathon Oil Co. he became District Exploration Manager and directed geologic work, oil and gas leasing, exploratory drilling, and development work in Alaska leading to the Joint Union-Marathon discoveries of Trading Bay Oil Field, McArthur River Field, Beaver Creek Field and Cannery Loop gas field in the Cook Inlet basin. From 1972 to retirement in 1986, he was Pacific Coast Division Geologist for Marathon and directed geologic work and exploration programs in Alaska, Washington, Oregon and offshore California. Since retirement in 1986, he has worked as a consulting geologist part-time in offshore California and Alaska. Tom and Carol added two more children to the family, another girl and a boy, during their Alaska sojourn. That gives them a total of 4 children, 7 grandchildren and 5 great-grandchildren.

While working in Alaska he continued to be active in industry and geologic society matters, serving as president of the Alaska Geologic Society, president of Alaska Section of AIPG, AAPG delegate for Alaska, President of the Petroleum Club of Anchorage, Chairman of Minerals & Petroleum Committee of Alaska State Chamber of Commerce, Chairman of Exploration Committee of Alaska Oil

& Gas Assoc. and in 1986 was appointed lifetime member of the Alaska Geologic Society. He has authored several papers in AAPG and AGS bulletins and is a registered geologist in the states of California and Alaska.

AAPG HONORARY LIFE MEMBERSHIP AWARD JOHN A. CARVER

By David M. Martin



John Carver is the former Executive Vice President, Worldwide Exploration for Occidental Oil & Gas Corporation where he was responsible for finding major new oil and gas reserves.

John graduated from Stanford University with a Bachelor of Science Degree from the School of Earth Sciences class of 1955. He began his career as a geologist for Richfield Oil Corporation in California. In 1956 he entered the U.S. Air Force serving in Germany for two years as a Petroleum Intelligence Officer.

He returned to California in 1958 and entered UCLA, obtaining a Master of Arts Degree in geology in early 1960. It was during this time that he met and married Liv Sollihagen, a native of Norway.

He restarted his career in the oil business with Shell Oil Company in 1960 and worked in many areas of the western United States, including California. He joined Occidental in 1964 and made a contribution to some of the early discoveries in California.

In 1970 he became part of a small group of explorationists that started Occidental's exploration program in Latin America. He became Manager of Latin America Exploration 1973 and Vice President of Latin America Exploration in 1978 and served in that capacity until 1983. During that period of time (1970 to 1983) Occidental discovered over 2 billion barrels of oil in 4 countries in Latin America.

From late 1983 to 1990 he served as Vice President of Eastern Hemisphere Exploration. In 1990 he was promoted to Vice President International Exploration and early in 1994 he was promoted to Executive Vice President, Worldwide Exploration. He recently retired from Occidental after 34 very successful years. John was the driving force and the inspiration for many major oil and gas discoveries, and will continue as a consultant to the Company in worldwide exploration.

As a result Occidental has instituted an inter-company annual award to recognize the geoscientist that has exhibited the most creative work during the preceding year. It has been named the "John Carver Award for Creative Excellence", in honor of his great contribution to the company.

Mr. Carver is a past chairman of the Pacific Section AAPG Convention, a past president of the Pacific Section of the AAPG and is a Director of the Circum-Pacific Counsel for Energy and Mineral Resources.

**AAPG HONORARY LIFE MEMBERSHIP
AWARD
JACK C. WEST**

By Peter H. Gardett



Jack was born in Enid, Oklahoma but as a very young lad, moved to the San Fernando Valley, where he attended grammar and high schools.

He entered UCLA as a pre-med student almost coincidentally with the outbreak of World War II. Jack was in the V-7 program and, after two years changed his major to geology, and graduating in 1943. He immediately began active duty in the U. S. Navy, which included participation, as skipper of an LCI (Landing Craft Infantry), in the Normandy invasion of Europe.

After the war, he continued graduate studies at UCLA and in 1947 was employed by Seaboard Oil Company in Los Angeles. If one reviews Jack's employment history from 1947 to 1971, it would seem that he was destined to a fate of buy-outs, take-overs, and mergers. Seaboard by Texaco, Hancock by Signal, Signal by Aminoil, and Westates by Sante Fe Energy. This trend proved to Jack that the only real job security is to be found in self-employment, and accordingly he has been a successful consultant since 1971. Much of this success he attributes to the lessons he learned from such outstanding Petroleum Geologists as Snookie Chambers, Al Vitt, and Art Huey and to an extensive collection of petroleum related files that have required expansion of his office space. I personally know the high quality of his work and admire the contributions that he has made to the Pacific Section. Most significantly, from 1987-91 Jack teamed with Tom Redin, updating and adding regional sub-surface cross-section publications of the os Angeles Basin.

It should also be noted that as a consultant in Fullerton, Jack has temporarily employed a number of the geology majors attending Cal-State Fullerton and has encouraged these students to become more actively involved in local society activities and membership.

This citation would not be complete without a mention of golf and the pleasure both Jack and his vivacious wife, Tillie derive from this recreation.

I have had the benefit and pleasure of knowing Jack C. West for the same number of years that he has been a member of Pacific Section AAPG, Fifty. I sincerely appreciate the opportunity to cite the background and contributions of this worthy member.

**AAPG HONORARY LIFE MEMBERSHIP
AWARD
JOHN A. MINCH**

By Arthur O. Spaulding



John Minch has been a prominent figure in the Pacific Section of AAPG from the outset of his affiliation. In 1973 when San Diego was established as the site of the 1974 Convention, John agreed to be its general chairman. Under John's guidance that meeting turned out to be a smashing success with the highest attendance ever. Not only did John do a marvelous job, but he also won the Levorsen Award for the best paper given at the meeting.

Subsequently, when the Pacific Section had its next meeting in San Diego in 1984, John was again appointed general chairman and succeeded in duplicating his extraordinary work of ten years before.

The culmination of his efforts for AAPG was the national meeting held in San Diego in 1996. John volunteered once again to serve as General Chairman and this time received the plaudits of several thousand AAPG members from around the world for an outstanding job.

John A. Minch was born in Hollywood in 1939, a sixteenth generation American. He received his B.S. and M.S. degrees in geology from San Diego State University in 1964 and 1966, respectively, and his Ph.D. 1972 from the University of California at Riverside. For twenty years he taught geology at Saddleback College and has devoted half his lifetime mapping the geology of Baja California. He has published more than eighty articles and abstracts including, "Roadside Geology and Biology of Baja California". Through John Minch and Associates he provides consulting services in geology and paleontology for clients. He is a member of AAPG, SEPM, the Society of Vertebrate Paleontology, and serves as a member of the Board of Directors of the Dibblee Geological Foundation. Having served the Pacific Section and AAPG with distinction for nearly twenty-five years, John A. Minch has clearly earned recognition as an Honorary Member of the Pacific Section of AAPG.



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NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska

The May 28th meeting featured Gerry Van Kooten of ARCO Alaska, Inc. speaking on "Geology of the Nation River Basin and Yukon Thrust, Kandik Region, East-Central Alaska and Canada."

The Kandik area of east-central Alaska has long attracted attention as a potential petroleum province due to the presence of numerous surface bitumen seeps, excellent hydrocarbon source rocks, and an extensive Mesozoic to Paleozoic stratigraphic section.

Election results are in and the new officers are:

President: Mark Myers
President-Elect: Dana Coffield
Vice President: Monte Mabry
Secretary: Peter Johnson
Treasurer: Dalton Lockman

*Alaska Geological Society
P.O. Box 101288
Anchorage, AK 99510
Contact: Mark Myers
(907) 263-4205
<http://www.seclabs.com/ags>*

Coast

The Coast Geological Society hosted the successful Pacific Section Annual Meeting in Ventura with over 500 people attending. Two out of the three field trips were sold out with the third well-subscribed.

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Thompson Blvd, North (Right) on Palm.

SOUTHBOUND Highway 101 – Take Ventura Ave. Exit, East (Right) on Thompson Blvd., North (Left) on Palm.

Social Hour – 6:00 p.m.

Dinner – 7:00 p.m.

\$12 – With Reservation

\$17 – Without Reservation

\$ 5 – For Students and K-12 Teachers

Reservations: Please phone the receptionist at : APPLIED ENVIRONMENTAL TECHNOLOGIES 650-1400 by 10 a.m. on the Friday Before the meeting date with your menu selection (Chicken or Beef). Reserve by e-mail to Jim Steele at ttsba@silcom.com.

*Coastal Geological Society
P.O. Box 3055
Ventura, CA 93006
Contact: Joe Scaaf
(805) 650-1400*

Los Angeles

On June 18, 1998 Rick H. Hardman spoke on Induction Logs in Dipping and Directional Holes

Los Angeles Basin Geologic Society, Pacific Section AAPG and National AAPG are trying to recruit university students for the AAPG. Students receive a substantial discount on the luncheon meetings and PSAAPG will pay the first years dues for new student members of AAPG. This is a deal. LABGS membership costs \$10.00, PSAAPG membership costs \$12.00, and AAPG student membership costs \$0.00 (paid by PSAAPG). LABGS luncheon for students costs \$6.00, members pay \$17.00. It is important to remember that the future of

our profession resides in the current student population. We need to encourage early participation at these meetings. Send your application to Robert Countryman at Chevron USA Inc., P.O. Box 1392, Bakersfield, CA 93302. This offer ends this summer!

Upcoming Events in Southern California:

July 15, 1998, San Diego Association of Geologists, dinner meeting. Vera Berger will speak on **Ground Motion and Liquefaction**. Contact Greg Cranham, (619) 454-0165 x 108

July 22, 1998 - not scheduled

August 19, 1998, Tim Boardman will speak to the SDAG on the **Imperial Valley Geothermal Fields**. Contact Greg Cranham, (619) 454-0165 x 108

August 26, 1998 - not scheduled

*Los Angeles Geological Society
c/o Don Clarke
Dept. of Oil Properties
211 E. Ocean Blvd. Ste. 500
Long Beach, CA 90802
(562) 570-3915*

Northern California

The NCGS held a family picnic on June 20th at Mt. Diablo State Park in Danville.

The May 6th speakers were Angela Jayko and David G. Howell, U.S. Geological Survey speaking on "Landslides, Debris Flows and This Year's El Nino, San Francisco Bay Region".

*Northern California
Geological Society
9 Bramblewood Court
Danville, CA 94506-1130
Contact: Dan Day
(510) 294-7530*

Northwest

May 8th saw Walt Pollock, Senior Vice President, Portland General Electric speak on "Proposal to Divest PGE's Generating Assets".

*Northwest Energy Association
P.O. Box 6679
Portland, OR 97228-6679
Contact: William Prehm
(503) 557-8432*

Thank you San Joaquin Geologi- cal Society

The San Joaquin Geological Society had California Well Sample Repository Night at their June dinner meeting.

The official coffee can was passed around the room and when it got back to the podium the members of the SJGS had donated \$530.00. The SJGS Executive Committee matched this amount and presented a check to the CWSR for \$1060.00.

The money is used to help cover the operating expenses for California's only well sample repository.

Sacramento

The Association held a good luncheon meeting on May 6th attended by 20 people, where Mr. John Snow of the Division of Minerals for Nevada gave us an update on the recent production and activities in the oil and geothermal fields of Nevada.

The SPA held its annual Golf Tournament May 29th at the Yolo Flier's Golf Club in Woodland.

On June 3rd, the SPA heard Burt Amundson speak on "Aerial View of the Geology of California's North Coast" and on June 17th perennial favorite Roland Bain gave a talk entitled "Condensate Production of the Sacramento Valley".

Unlike many organizations, the SPA continues to have meetings on the 1st and third Wednesdays of each month.

Noon luncheon meetings are held at the HUNGRY HUNTER RESTAURANT, 450 Bercut Drive, Sacramento. For luncheon information and reservations, please call Capitol Oil Corporation at (916) 484-3900.

*Sacramento Petroleum
Association
P.O. Box 254443
Sacramento, CA 95865-4443
Contact: Scott Hector
(916) 758-5951*

San Joaquin

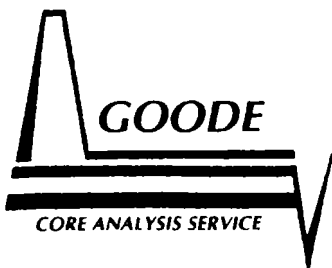
Gary Myers, Aera Energy will speak at a special July meeting to be held at The Bistro on July 14th. His topic will be "3-D Seismic Imaging of the Shallow Tulare Sandstone at South Belridge Field, CA - Results and Impact in Reservoir Development". Call Mike Minner at (805) 392-2557 for more information.

The SJGS is also planning a going-away party for Dan Fargo (Core Lab) who is transferring to Nigeria in August. Dan will regale the crowd with his BBQ cooking skills as well as a slide presentation of life in Nigeria.

The annual Fall Barbeque and Golf Tournament will be held on September 11th at the Kern River Golf Course Picnic Area. Watch the SJGS's web site at <http://www.sjgs.com> for more info!

Dinner Meetings are held the second Tuesday of each month (except summer months) at the American Legion Hall, 2020 H street, Bakersfield. The social hour starts at 6:00 p.m., dinner is served at 7:00 p.m. and the talk begins at 8:00 p.m.

*San Joaquin Geological Society
P.O. Box 1056
Bakersfield, CA 93302
Contact: Mike Clark
(805) 632-6254*



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SEG Awards Silver Certificates

The Society of Exploration Geophysicists has awarded 25 Year "SILVER CERTIFICATES" for membership in the SEG to:

Jay Meyer
(Occidental Oil and Gas Corp.)
Andrew Chermak
(Occidental Oil and Gas Corp.)
Allen D. DeMay
(Consultant; Ventura).

AAPG Officer Candidates for 1999-2000 Term Elec- tion to be held May, 1999

The slate of National AAPG Officer Candidates for the 1999-2000 term is now complete as follows:

President-Elect:

Marlan W. Downey, Dallas, TX
Patrick J. F. Gratton, Dallas, TX

Vice-President:

Carl J. Smith, Morgantown, WV
Raul Mosmann, Rio de Janeiro,
Brazil

Secretary:

Roger M. Slatt, Golden, CO
Charles R. Noll, Jr., Houston TX

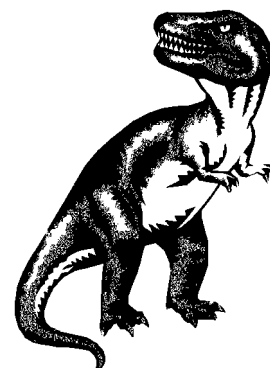
Editor Neil F. Hurley, Denver,
CO

THE DEMISE OF THE DINOSAUR?

By Ed Karp

There have been many theories regarding the "sudden demise" of the dinosaurs. All of them stop short of actually solving the mystery. One solution to this demise is the VIRUS theory. Let's say that at the end of the Cretaceous period, MOTHER NATURE made a terrible mistake by creating a monstrous virus similar to the present deadly EBOLA

We can call this killer EBOLA REX. If this virus evolved from an amphibious dinosaur strain, the disease could spread rapidly to the flying reptiles and the land and marine dinosaurs by way of physical contact or scavenging. This process would have no barriers to flying or land reptiles or the wide distribution of marine dinosaurs. EBOLA REX could have been responsible for the rapid growth of mammals at this time by eliminating the dinosaurs. EBOLA REX would depend on living cells in order to replicate, insuring it's own demise.



*Deadline for the
next issue is:
August 10, 1998*

*Check out the new Pacific Section
Web Site at:*

<http://www.west.net/~psaapg>

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E-mail: corebak@ix.netcom.com

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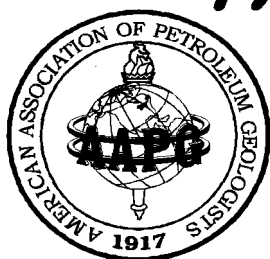
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PACIFIC PETROLEUM GEOLOGIST NEWSLETTER



of the Pacific Section
American Association of Petroleum Geologists

September 1998 NO.7

A MESSAGE FROM THE PRESIDENT

Greetings from your new '98-'99 officers. Our term began with an exciting Executive Committee meeting in the offices of Gary Greene's at Moss Landing Marine Laboratories on Monterey Bay. The Monterey Bay area will be the site of next year's Pacific Section Annual Meeting, and Gary Greene is the General Chair of that meeting. Gary's plan for that meeting includes among many other exciting things an evening with dinner at the wonderful Monterey Bay Aquarium.

Dalton Lockman and the outgoing officers did a wonderful job of managing Pacific Section and turned over to the new officers a financially healthy, smoothly functioning and growing (9% gain in membership) organization. We all need to express our thanks to this outgoing crew. Dalton Lockman was an outstanding President. In addition, he served as General Vice Chair of the very successful Annual Convention in Ventura, successfully pursued major liability insurance coverage for conventions and field trips for Pacific Section and its affiliated societies, and suffered a move from Exxon's Thousand Oaks facility to Exxon's Anchorage, AK facility. We now expect much closer communication with our Alaska Geological Society Affiliate. Dalton left me a beautifully organized binder that includes a collection of documents that define the recent history of Pacific Section, the duties of its officers, and the present status of ongoing initiatives. This will be a hard act to follow.

Dalton was supported by a very proactive Executive Committee that included Terry Thompson, Vice-President; Kay Pitts, Secretary; Joan Barminski, Treasurer; Larry Knauer, Past-President; and Allen Britton, Newsletter Editor. In addition, committee chairs Bob Countryman, Membership; Larry Knauer, Publications; Murial Norton, Finance; Bob Lindblom, Honors & Awards; Tom Wright, Conventions; Mark Wilson, Constitution and Bylaws; Paul Henshaw, Youth Activities; and Jack West, California Well Sample Repository all made significant contributions. Please thank these peo-

ple personally when the opportunity arises.

Your new officers look forward to a busy and productive year. President-Elect Terry Thompson will be coordinating our year 2000 (75th anniversary) convention in Long Beach with Convention General Chair Don Clarke. The newly rejuvenated LA Basin Geological Society will host this convention as a joint meeting with the local Society of Petroleum Engineers. Vice President Kay Pitts will be responsible for our new initiatives in coordinating community affairs and educational programs. Joan Barminski will continue her outstanding job as Treasurer for one final year. Secretary Cynthia Huggins has the thankless task of keeping us all organized and highlighting the action items for each of us. Newsletter Editor Allen Britton will continue to innovate and keep the quality up and the costs of the Newsletter down. Past President Dalton will continue to offer guidance and commute from Alaska when possible. He is chair of our nomination committee; if you are interested in serving on committees or running for office, please contact Dalton. Volunteer work with Pacific Section, as committee members or officers, is an excellent opportunity to be recognized within our professional community and to influence the direction of our educational programs. Both the industry and the profession change continu-

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ously, work with Pacific Section will benefit your career in the long run and be fun in the short run.

As I write this the "Call For Papers" for the 1999 Meeting in Monterey April 28-30 is being prepared by Gary Greene and his Technical Committee Chairs, John Carver (PS-AAPG) and David Andersen (PS-SEPM). Please participate by submitting an abstract for an oral or poster session, or by offering to organize and chair a session. You will probably receive your copy of the "Call For Papers" about the same time you receive this Newsletter.

--- **Mel Erskine, President**

Lloyd Owens

Mr. Lloyd D. Owens, B.S., M.S. 1941, University of Michigan, Ann Arbor, died of cancer July 9, 1998 at age 79. He was born in October 1918, raised in Owosso Michigan and majored in geology at U. Mich. Following a brief period as a machinist with Chrysler Corporation in the war effort, he joined Standard Oil of California in 1943 as a geologist. After a short introduction to California he was assigned overseas to a Socal subsidiary in Egypt. A year later he transferred to Aramco. For the next four years he mapped surface geology in the interior of Arabia; truly pioneer exploration!!!

In 1949 he returned to the U.S., settling in Taft, California with Socal (now Chevron) where he worked on wellsite and geologic mapping projects. He met his wife Barbara in 1953 at an AAPG convention and they were married a year later. He continued to work for Chevron in Bakersfield and San Francisco until his retirement in 1977. Most of his career with Chevron was devoted to a variety of surface and subsurface geologic mapping projects involving both exploration and production objectives. He was widely recognized in Chevron for his valuable contributions to the Company's long standing success in California exploration and production. He was a true mentor to the younger geologists exemplifying the best geologic skills, ethics and humor. His beloved wife, four children, two daughters in law, eleven grandchildren, and a sister survive Lloyd. Lloyd Owens will be greatly missed by his family, many friends and fellow geologists.

Darrel L. Kirkpatrick

Mr. Darrel L. Kirkpatrick, retired oil geologist and operator, passed away July 27, 1998 at Bakersfield, California after a brief illness. A 1942 graduate of UCLA, Darrel was a long-time member of Pacific Section AAPG. He was 82.

L. F. (Buzz) Ivanhoe

California K-12 Standards Approved

(Editors Note: The following article is in the form of an e-mail message sent to Beth Mathieson by Dr. Eldridge Moores, U.C. Davis)

Monday, July 6, 1998

Dear Beth:

Below is a release announcing the fact that the K-12 academic standards for California have been approved. The next step is to take them to the full State Board of Education. If they are accepted without changes by the Board, then for the first time, California will have a set of expectations for K-12 education that will integrally include earth science, including California geology!

I have been somewhat involved with this project, mainly by working with the group headed by Dr. Bonnie Brunkhorst, Professor of Geology and Science Education at CSU San Bernardino, Past Chair of the National Science Teachers Association and Past Chair of the Council of Scientific Society Presidents (the latter headquartered in Washington and counting some 1.5 million members, including GSA, AGU, the American Chemical Society, and the American Physical Institute). Our efforts have been directed mainly at getting a set of coherent standards written. We also have been trying to ensure that geoscience is present at all levels, INCLUDING HIGH SCHOOL for all students.

Against this effort for universal geologic education is that of Glenn Seaborg, Chair of the Science Committee. His vote was one of the "abstentions" in the tally announced below. Seaborg has fought long and hard for an organization in high school of: Grade 9 Biology, Grade 10 Chemistry, Grade 11 Physics, and Grade 12 Earth Science. As most California high schools only require two years of science, this organization in effect would be to continue the status quo wherein earth science/geology is only optional, and most students go through high school having no contact with it. Seaborg lost the votes on this issue both in the Science Committee and in the California Academic Standards Commission, but he has vowed privately to "fight this all the way". In his written public remarks before the commission, he stated that he was abstaining based in part on his dissatisfaction with the high school vote which include earth sciences as a requirement for all students. Although I have immense respect for Seaborg's long contributions to chemistry, on this issue, I believe that he is off the mark. I believe that it is essential for ALL California students to have basic instruction in earth science at all levels, especially at the high school level. I urge members of your organization to acquaint themselves with

this issue, and to inform the Governor and members of the State Board of Education of their views of the importance of earth science education for the future economic well-being of the State of California and its citizens.

Eldridge Moores
Past President, Geological Society of America

ACADEMIC STANDARDS COMMISSION APPROVES HISTORY/SOCIAL SCIENCE AND SCIENCE STANDARDS

Sacramento, CA The California Academic Standards Commission adopted Wednesday California's first-ever statewide academic standards for History/Social Science and Science. Both sets of standards were adopted overwhelmingly by the commission. (History/Social Science 16-0 and Science 16-0, with two abstentions). The commission, which serves as an advisory body to the State Board of Education, will now recommend the standards to the board for its consideration. The board will adopt the final content standards by November 1, 1998.

"These academic content standards represent the core content of science and the essential skills and knowledge students will need for employment, citizenship and lifelong learning," said Science Committee Chair Glenn T. Seaborg. "The science education standards we are recommending to the State Board of Education will be challenging and will provide a foundation for raising the level of achievement in science education for all California students."

"Our History/Social Science Standards are balanced and academically rigorous. I am especially proud of the civic values and virtues which they impart," said History/Social Science Committee Chair Lawrence Siskind. "When they graduate high school, California students will be ready to vote, to serve on juries, and to take their place in society as responsible citizens. Should they ever be called upon to fight for their country, these standards will teach them why their country is worth fighting for."

With the adoption of the History/Social Science and Science standards, the commission has completed its charge of developing standards in the four core content areas. The commission submitted standards for mathematics and English language arts to the State Board of Education last October.

"Our process welcomed public debate, excluded no one, and forged consensus," said commission Chair Ellen F. Wright. "Good public policy, which these standards represent, requires that all voices, no matter their source, pitch or volume, participate in the chorus of public decision making."

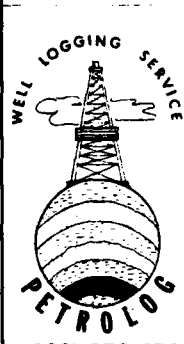
"The standards define a new vision for achievement in California's schools and we all should be very proud that our diligent, inclusive efforts have culminated in the nation's best standards," Wright said.

California Council of Geoscience Organizations Rapidly Gaining Membership

On March 8, 1998, the California Council of Geoscience Organizations (CCGO) executed incorporation documents which included Articles of Incorporation and Bylaws for submittal to the California Secretary of State. These documents were subsequently approved by the Secretary of State's office and CCGO is now operating as non-profit mutual benefit corporation.

The mission of CCGO is to advocate the use of sound geologic knowledge and practice by proposing, reviewing, and monitoring statutes, regulations, and public policies. Members of CCGO include both organizations and businesses. The organization's Charter Membership drive has been extremely successful. CCGO's charter organizational members represent 3400 geoscientists in the state! The first meeting of the Board of Directors was Saturday, June 27, in San Jose.

(Continued on page 6)



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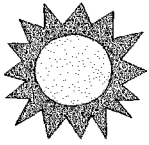
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September Meetings of Note

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11 SJGS BBQ SPA Field Trip	12
13	14	15	16	17	18	19
20	21 Northwest Energy Symp	22	23 LAGS Mtg	24	25	26
27	28	29	30			



October Meetings of Note

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13 SJGS Mtg	14	15	16	17
18	19	20	21	22	23 SJGS Field Trip	24
25	26	27 LAGS Mtg	28	29	30	31

NEW PUBLICATIONS FOR 1998!!!

Pacific Section AAPG Publication MP 45

“Contributions to the Geology of the Northern Channel Islands, Southern California”

Edited by Peter Weigand, Professor of Geology at Cal State University Northridge

196 pages of the latest information on the Channels Islands covering the structure, stratigraphy, microfossils, pygmy mammoths and more. Includes an extensive bibliography of papers related to the geology of the Channel Islands (1977-1998).

\$30/members and \$35/non-members; add \$3.00 per copy for shipping and handling.

Pacific Section AAPG Publication MP 46

(in cooperation with the Coast Geological Society)


“Structure and Petroleum Geology, Santa Barbara Channel, California”

Edited by Dale Kunitomi, Tom Hopps and Jim Galloway

328 pages of structure, stratigraphy, oil & gas field reviews, historical development and current issues; plus a structure map on the top of the Monterey Formation and two regional cross sections.

\$45/members and \$50/non-members; add \$3.00 per copy for shipping and handling.

To order - send a check made out to PSAAPG Publications, P.O. Box 1072, Bakersfield, California, 93302. If you have any questions contact Larry Knauer at 805.392.2471 or knauelc@texaco.com.

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ORGANIZATIONS :

- American Association of Petroleum Geologists-Pacific Section
- Association of Engineering Geologists - Sacramento Section
- Association of Engineering Geologists - San Francisco Section
- Association of Engineering Geologists - Southern California Section
- Association for Women Geoscientists - Los Angeles Chapter
- Association for Women Geoscientists - San Francisco Bay Area Chapter
- Groundwater Resources Association of California
- Society for Sedimentary Geology (SEPM) - Pacific Section
- Women in Waste Management Professions

BUSINESSES

- Cotton, Shires and Associates, Los Gatos and Carlsbad
- Cypress Environmental
- Drew Associates
- Earth Consultants International
- William Elliot, Engineering Geologist
- Fast-Tek Engineering Support Services
- Geosoils, Inc., Santa Ana and Van Nuys
- Grover-Hollingsworth and Associates
- Harding Lawson Associates
- Harlan Tait Associates
- Mike Hart, Engineering Geologist
- Natural Hazards Disclosure
- Robertson Geotechnical
- Roy J. Shlemon and Associates
- Southwestern Engineering Geology
- Upp Geotechnology

Other organizations and businesses practicing in the geosciences are encouraged to join. For more information, contact Betsy Mathieson, Interim Executive Director, 408-297-6969, fax 408-297-7716, e-mail BMathieson@aol.com.

WELL INFORMATION AND INSTRUMENTATION

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Los Angeles Basin Data: The Task Begins

The task of preserving the vast amount of geological data in the Los Angeles Basin so that it can be used by academic and government geologists to better interpret the L A Basin geology and seismology has begun. The gears are rolling at California State University Long Beach and the first batch of donated data has arrived from a major oil company. Organizationally this effort is still in its infancy. But soon it will grow. **Mr. Tom Wright, Dr. Stan Finney, Mr. Don Clarke** and others have are actively working to save as much of this data as possible.

This is a call for help. If you have geological data, interpretations and /or the financial ability to help please contact **Stan Finney** at **(562) 985-8637**. Recently some older geologists who spent their whole lives working out complex problems have passed on. Lets make sure that the fine work that was performed by these geologists is not lost forever. Please give this idea some serious consideration. The body of our work is important so lets preserve it. Also if you are aware of any useful data that your company is planning to discard please **call Stan Finney** as soon as possible so that efforts can be initiated to preserve it.

SJGS FALL FIELD TRIP GEOLOGY OF THE EASTERN SAN JOAQUIN BASIN Friday, October 23, 1998

The SJGS continues our new field trip series with an examination of eastern San Joaquin basin geology. The purpose of the trip series is to re-acquaint geologists with the basin's major stratigraphic units and structural features through an examination of outcrops and subsurface data. The tentative trip schedule includes the following topics:

- Oligocene geology, modern hydrology, environmental geology and recent faulting in the Bena Landfill area.
- Reservoir characteristics and depositional environments of the Vedder Formation, Round Mountain area.
- Middle Miocene depositional environments and fossil assemblages, including a tour of the famous Sharktooth Hill quarry.
- Geology of the Kern River Series, including glacial and interglacial history, relationships to the "Corcoran Clay" and petroleum geology of the Kern River Field.

Cost of the trip is \$50 and includes field trip notes, transportation, lunch and a barbecue dinner at the California Well Sample Repository at CSUB. To receive a flier containing additional information on the trip, please contact Mike Minner at Texaco (805) 392-2557, fax (805) 391-4303 or e-mail minneml@texaco.com.



Ed Stinemeyer and George LaPerle attended the special July SJGS meeting at the Sheraton Four Points Hotel.



Ken Gester and Peter Cowell could not believe their good fortune to find themselves at the July SJGS meeting.

See you at the SJGS Fall Barbecue!

The annual SJGS Fall Barbeque and Golf Tournament will be held on September 11th at the Kern River Golf Course Picnic Area in Bakersfield.

Call Mike Minner at (805) 392-2278 for information.



New Officers for the San Joaquin Geological Society are (l-r) Mike Clayton, Mark Wilson, Mike Clark, Dan Steward and Mike Minner.

A Thank You From The San Joaquin Geological Society

The San Joaquin Geological Society would like to thank all of this past year's dinner meeting sponsors for their support and attendance. The membership greatly appreciates your contributions which have helped us to bring in top quality speakers and enthusiastic crowds of geologists and geophysicists. We salute you: Goode Core Analysis, Schlumberger, Core Laboratories, Pacific Seismic and GeoOne, Haliburton Energy Services, Epoch Well Logging, ResTech/Delano Petrophysics, Horizon Well Logging, STA, and Landmark. We would also like to acknowledge and express our gratitude for the many prize donors and sponsors of this past year's Annual Fall BBQ and Golf Tournament.



Incoming SJGS President Mike Clark presents an award to outgoing SJGS President Tony Reid at the July meeting.

1997-1998 ANNUAL REPORT OF THE PACIFIC SECTION

*Prepared by Dalton Lockman
PSAAPG President 1997-1998*

The Pacific Section, with its seven affiliated societies experienced a time of renewed interest and activity in Section events during the fiscal year of 1997 - 1998. Affiliated societies making up the Pacific Section are: Alaska Geological Society (Anchorage, AK), Coast Geological Society (Ventura, CA), Los Angeles Basin Geological Society (LA, CA), Northern California Geological Society (Concord, CA), Northwest Energy Association (Portland, OR), Sacramento Petroleum Association (Sacramento, CA), and San Joaquin Geological Society (Bakersfield, CA).

Financial Statement

The Pacific Section continues to be financially solvent with a balance sheet in restricted and operating funds comfortably in the black.

Membership

Final membership for 1997-1998 is 789. This is up 9% from 1996-1997. Our membership fee is \$12.00 per year with \$3.00 going to the member's local society.

1998 Convention

The 73rd annual meeting of the Pacific Section was held from April 29 - May 1, 1998 in Ventura, California. The theme of the meeting, "Geoscience Horizons" focused on the new technology and opportunities that will drive our profession into the 21st Century. Highlights of the convention included four field trips, three technical short courses, one 3-12th grade teacher workshop ("Rocks in Your Head") and twelve technical sessions containing 97 presentations. This meeting was held with Pacific Sections of SEPM, SEG, SPWLA and hosted by the Coast Geological Society. Attendance was strong with a total of 570 people registered for the convention. Of that number, 440 were professionals, 73 were students and 57 were spouses or guests. Forty-two people took advantage of the short courses, and 73 persons attended the three field trips. In a new public service program, 66 teachers from grades 3 through 12 attended the national AAPG sponsored "Rocks In Your Head" workshop. The bottom line for our members: Expand networking opportunities, quality education, increased public awareness of the science, and a conducive environment to renew old acquaintances.

Honors and Awards conferred at the annual meeting included the following:

- **Honorary Life Membership** - John A. Carver, John A. Minch, Jack C. West, and Thomas Wilson, Jr.
- **Distinguished Educator Award** - Robert S. Gray, Santa Barbara City College

- **A.I. Levorsen Award** - Joe Nahama and Rod Nahama
- **Martin Van Couvering Student Scholarships** - awarded to eight students.
- **Excellence in the Teaching of Natural Resources in the Earth Sciences Award** - Stephen B. Nardi, Conejo Valley School District, Thousand Oaks, CA

1997 - 1998 Activities and Notable Issues

Newsletter - Our Section newsletter continues to be a source of information for geologists on the West Coast. Published 6 times each year with a mailing of over 870, our average issue now runs 20 pages.

Pacific Section Foundation - Established the Pacific Section AAPG Foundation, a charitable, tax-free foundation that stewards the Pacific Section's contributory funds. Voted in place at our general membership meeting, May 1, 1998.

Student Membership Program - Students joining the Pacific Section for \$12.00 we automatically sign them up for membership into AAPG. 40 students took advantage of this program in 1997 - 1998.

New Profit Sharing Plan with Convention Host Societies - Provides greater distribution of convention proceeds to our affiliated societies and groups assembling technical sessions, field trips, and short courses.

Contributions - The section provided more than \$10,000 in contributions to geologic organizations and scholarship funds such as the Dibblee Foundation, the California Well Sample Repository, the AAPG Foundation's Kilkenny Memorial Grant.

Web Site - Our web site became a reality in the summer of 1997. Initially it concentrated on the 1998 convention, but now it houses our newsletter and other section information. Our web site at: <http://www.west.net/~psaapg>

AAPG Distinguished Lecture Series and Local Society Meetings - The Section reimbursed its affiliated societies for an AAPG distinguished lecturer of their choice.

Publications - The section produced 2 new miscellaneous publications for sale "Contributions to the Geology of the Northern Channel Islands, Southern California" and "Structure and Petroleum Geology, Santa Barbara Channel, California".

Community Outreach - Community outreach continued to be an area of focus for the Section. We spent over \$5,000 sponsoring events throughout the community. These included sponsorship of "API Energy Days", local science fairs, and the Petroleum Technology Transfer Center (PTTC) at the University of Southern California. Our largest emphasis however, was on establishing a Teacher Education fund,

(Continued on page 9)

(Continued from page 8)

designed to assist teachers from K-12 with resources to teach the earth sciences and the Kern County Museum where we contributed to their new exhibit on the petroleum industry in California.

New Local Teaching Award - Created the "Excellence in the Teaching of Natural Resources in the Earth Sciences Award", presented at our annual meeting during the "Rocks in Your Head" workshop.

New Officers for 1998 - 1999

Mel Erskine, president; Terry Thompson, president-elect; Kay Pitts, Vice President; Cynthia Huggins, Secretary; Joan Barminski, Treasurer; and Dalton Lockman, past-president. Bob Countryman will be the Pacific Section's member on the Advisory Council until the year 2000.

Future Conventions

PSAAPG Officers 1998-1999



(l-r) Mel Erskine (President), Kay Pitts (Vice President), Terry Thompson (President-Elect), Cynthia Huggins (Secretary) and Dalton Lockman (Past President). Not Pictured is Joan Barminski, Treasurer.

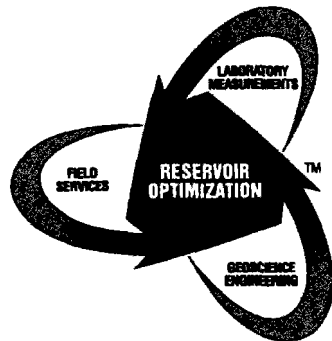


Dalton Lockman receives an award from incoming President Mel Erskine.



Larry Knauer celebrates the conclusion of another successful year as Publications Chairman.

"The Power of Convergence"



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Bakersfield, CA 93308
(805) 392-8600 (805) 392-0824 FAX
E-mail: corebak@ix.netcom.com

Anchorage, AK TEAM

600 W. 58th Ave., Unit D
Anchorage, AK 99518
(907) 349-3541 (907) 562-2941 FAX
E-mail: coreanch@alaska.net



The Oil Tunnels of Sulphur Mountain

presented by Michael S. Clark, Steve Mulqueen,
J. P. Chauvel, and John Nichols in conjunction with the
Santa
Paula Union Oil Museum.

A selection of the figure captions from the historical poster
shown at the Annual Convention of the Pacific Section—
AAPG, Ventura, April 29-May 1, 1998.

The Sulphur Mountain area on the northern margin of California's Ventura basin abounds in natural tar and oil seeps.

"Oil is struggling to the surface at every available point, and running down the rivers for miles and miles." — *Prof. Benjamin Silliman, Yale University, 1863*

"The first thing that attracts attention is the 'villainous smell' of oil, the enormous deposits of asphaltum, and the oozing, bubbling, black, sluggish rivulets of petroleum. These mineral tar springs break forth from the base [of Sulphur Mountain] almost to the summit in a hundred places." — *Mining and Scientific Press, 1872*

Santa Paula oil field was discovered in 1861 when Josiah Stanford, a mining man and brother of railroad baron Leland Stanford, completed an 80-foot tunnel on the south flank of Sulphur Mountain. Using mostly Chinese labor, 54 tunnels were eventually dug by the Stanfords and others, most prior to 1892.

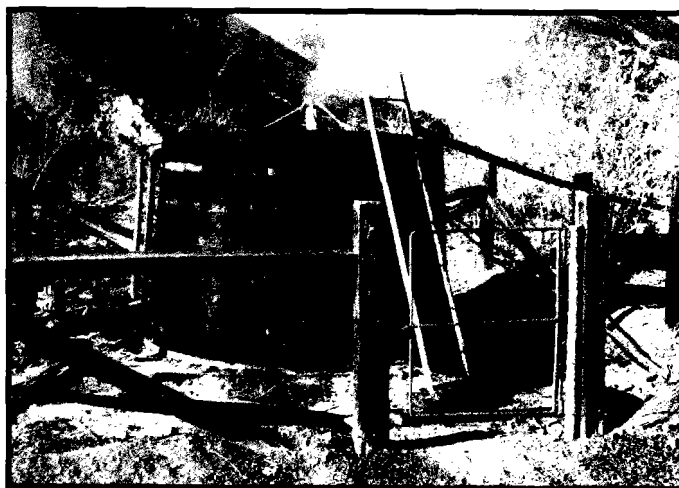
Through the 1860's, these tunnels produced more oil than any other method in California. Generally, crude from the tunnels was hauled by horse-drawn wagon to Ventura and shipped to San Francisco for distillation into lamp and lubricating oils.

Union Oil Company dug the Boarding House tunnel 1,940 feet into the base of Sulphur Mountain in the spring of 1890. Company engineers used mirrors to reflect sunlight into this tunnel for lighting and alignment, a system once used by ancient Egyptians to tunnel tombs under the mountains of Libya.

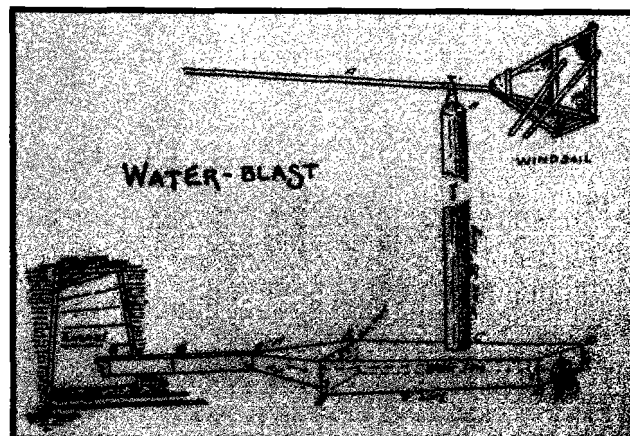
A one-percent grade on the tunnel floors allowed oil and water to flow to collecting tanks near the portals where the fluids were separated. Most of these tunnels were 6 feet



One of the tunnels at Sulphur Mountain



The equipment used to collect the oil from the tunnels.



Schematic of the equipment used to supply water-laden water into the drifts

high, 5 feet wide at the base, and 3 feet wide at the top—just large enough to accommodate a man swinging a pick.

A shallow ditch 8 inches deep by 18 inches wide in the tunnel floors carried out oil and water. Running boards on top of cross beams laid across the ditch allowed digging to continue while fluids ran down the ditch. One-ton mining cars, loaded with excavated dirt and rock, rolled out of the tunnels on rails laid over the running boards.

Water zones in the tunnels were sealed off with matched tongue-and-groove lumber which functioned like the wooden casing in nearby oil wells. This lumber also gave the tunnel walls needed stability.

Gas vapors made tunnel digging dangerous and explosions were always imminent. Although water-laden air injected in by a water blast system could evacuate the bad air in a 560-foot tunnel in half an hour, it was difficult to adequately clear the air in longer tunnels. When Union Oil had excavated the Boarding House tunnel 950 feet into Sulphur Mountain, the volatile air inside ignited with an explosion that injured four men. A second explosion a short time later killed another three. Despite these tragedies, Union finished the tunnel, extending it 1,940 feet into the mountain—deeper than most so-called “deep wells” of the day.

The first producing oil well in Santa Paula field was drilled about 1875 on a tar mat in the Adams Canyon area of Sulphur Mountain. This well, called “Old Adams”, produced 2 to 3 barrels of heavy crude each day—a meager rate even back then. Later, Adams No. 1 was drilled near “Old Adams”. The new well was still producing 20 barrels a day in 1884 so Adams No. 2 was drilled 100 feet south of No. 1. However, when No. 2 was put on pump it drained all the oil out of No. 1. Likewise, well No. 3 drained all the oil out of No. 2, making both 1 and 2 unproductive. However, when Adams No. 16 was drilled in 1888, oil spouted over the derrick top to make No. 16 California’s first gusher.

Thirty-two of the original fifty-four tunnels are currently connected to an oil and water gathering system maintained by the Union Oil Company. This system produces about 6 to 8 barrels of oil per day with most of the production coming from only ten of the tunnels. The locations of the remaining twenty-two tunnels are presently unknown.

Normally, these tunnels produce about 750 barrels of fluid a day. However, these rates can increase significantly during times of high rainfall or when earthquakes open bedrock fractures previously sealed by asphalt. For example, tunnel production increased dramatically after the 6.8 magnitude Northridge earthquake of January 17, 1994 and was gauged three months later at 7,900 barrels of water per day with about 10 barrels of oil. This same quake also resulted in the appearance of an oil seep at nearby Ojai field where no seep had previously existed.

Oil produced at Sulphur Mountain comes from organic-rich shales of the Miocene Monterey Formation. After expulsion from Monterey source beds, these oils migrate to the surface through fractured bedrock of the Pliocene Sisquoc Formation that is exposed in the overturned limb of the Sulphur Mountain anticline. Although bacterial action (called biodegradation), together with evaporation and oxidation, converts the seep oils into tars and asphalts, the tunnels produce crudes that average 30.3° API.

“The oil is usually struck in thin strata of sandstone, or oozes from between laminae of slaty shale; it is usually accompanied by sulphureted water. For the most part, the oil is green, but heavy black, brown, heavy and light green oils are found at no great distance from one another. Some strata penetrated by these tunnels yield much gas.” – *W. L. Watts, 1897.*

Further Reading

Rintoul, W., 1990, *Drilling through time: California Department of Conservation, Division of Oil and Gas, Sacramento, California, 178 p.*



The camp at Sulphur Mountain.



A view of the facilities at Sulphur Mountain.

NEWS FROM THE AFFILIATED GEOLOGICAL SOCIETIES

Alaska

For upcoming meeting information see the AGS website.

Alaska Geological Society
P.O. Box 101288
Anchorage, AK 99510
Contact: Mark Myers
(907) 263-4205
<http://www.seclabs.com/ags>

Coast

AMERICAN LEGION HALL
83 S. PALM STREET, VENTURA, CA

NORTHBOUND Highway 101 – Take California Street Exit, West (Left) on Thompson Blvd, North (Right) on Palm.

SOUTHBOUND Highway 101 – Take Ventura Ave. Exit, East (Right) on Thompson Blvd., North (Left) on Palm.

Social Hour – 6:00 p.m.

Dinner – 7:00 p.m.

\$12 – With Reservation

\$17 – Without Reservation

\$ 5 – For Students and K-12 Teachers

Reservations: Please phone the receptionist at : APPLIED ENVIRONMENTAL TECHNOLOGIES 650-1400 by 10 a.m. on the Friday Before the meeting date with your menu selection (Chicken or Beef). Reserve by e-mail to Jim Steele at ttsba@silcom.com.

Coastal Geological Society
P.O. Box 3055
Ventura, CA 93006
Contact: Joe Scaaf
(805) 650-1400

Los Angeles

Professor Rick Behl of California State University, Long Beach spoke on **July 22** at The Long Beach Petroleum Club on **Evidence for Rapid Climate, Oceanographic, and Ecologic Change along the Late Quaternary California Margin**. Prof. Behl worked in association with: **J.P. Kennett, I.L. Hendy, and K.G. Cannariato**, Department of Geological Sciences, UC Santa Barbara.

Upcoming Events in Southern California:

August 27, 1998 - not scheduled

September 23, 1998 - Bill Normark will speak on his studies in the California offshore.

October 27, 1998 - Scott Hector will speak on a case history in NW Lost Hills.

Los Angeles Geological Society
c/o Don Clarke
Dept. of Oil Properties
211 E. Ocean Blvd. Ste. 500
Long Beach, CA 90802
(562) 570-3915

Northern California

For meeting information contact:

Northern California Geological Society
9 Bramblewood Court
Danville, CA 94506-1130
Contact: Dan Day
(510) 294-7530

Northwest

September 21st will see the 15th annual Northwest Energy Association Symposium held at the World Trade Center Auditorium in Portland, Oregon. Among the topics being discussed will be:

Energy Storage or "Power Generation" - Trends and Business Opportunities

- Electricity and Gas - Forecasting Demand and Competing Markets
- "Hydro Storage" in the Columbia River Basin (Regional and Canadian Perspectives)
Gas Storage Resources - A Regional Perspective - Current Use, New Prospects and the Effects of Unbundling Gas Services
- Our Evolving Gas Industry - Pricing Trends, Pipeline Development, Market Growth v. Regional Production Development
- Energy Development and the Environment

Electric and Gas Deregulation - Current and Future Programs

- Regional Perspective
- Customer Choice
- Current Programs
- Forecasting the Direction of Deregulation

Northwest Energy Association
P.O. Box 6679
Portland, OR 97228-6679
Contact: William Prehm
(503) 557-8432

Sacramento

The association is looking forward to a field trip on Friday, September 11th, to the Point Reyes National Seashore. Highlights of the trip will include a visit to Park Headquarters and the offset fence line from the 1906 earthquake, and outcrops along the Drakes Beach. Plans are to leave Sacramento about 8 am and a tour the area via a bus. Those interested in signing up for the one-day trip can call Scott Hector at (530) 758-5951 or Capitol Oil at (916) 484-3900. Cost of the trip will be \$35, which will include a box lunch, and can be mailed directly to the address below.

On July 15th, SPA heard an excellent talk by Dr. Richard Stanley of the USGS on the "discovery" of an oil field at Los Gatos and recognition of a Monterey shale basin beneath the Silicon Valley. Diligent detective work by Rick has proven that an oil field in the Los Gatos area existed between 1891 and 1912.

Dr. Les Magoon spoke to the group on August 19th about ongoing studies by the USGS into hydrocarbon sourcing, migration and entrapment in the Sacramento and San Joaquin basins.

Noon luncheon meetings are held at the HUNGRY HUNTER RESTAURANT, 450 Bercut Drive, Sacramento. For luncheon information and reservations, please call Capitol Oil Corporation at (916) 484-3900.

**Sacramento Petroleum
Association**
P.O. Box 254443
Sacramento, CA 95865-4443
Contact: Scott Hector
(916) 758-5951

San Joaquin

Gary Myers, Aera Energy, spoke at a special July meeting held at The Bistro on July 14th. His topic was "3-D Seismic Imaging of the Shallow Tulare Sandstone at South Belridge Field, CA - Results and Impact in Reservoir Development".

The SJGS also held a going-away party for Dan Fargo, who is transferring to Nigeria, at Core Lab on August 26th. Dan treated the crowd to a BBQ dinner and entertained by sharing his observations on life in Nigeria.

The annual Fall Barbeque and Golf Tournament will be held on September 11th at the Kern River Golf Course Picnic Area.. Watch the SJGS's web site at <http://www.sjgs.com> for more info!

SJGS FALL FIELD TRIP GEOLOGY OF THE EASTERN SAN JOAQUIN BASIN Friday, October 23, 1998

The SJGS continues our new field trip series with an examination of eastern San Joaquin basin geology. The purpose of the trip series is to re-acquaint geologists with the basin's major stratigraphic

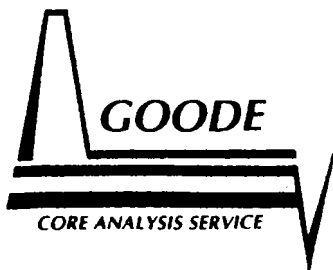
units and structural features through an examination of outcrops and subsurface data. The tentative trip schedule includes the following topics:

- Oligocene geology, modern hydrology and recent faulting in the Bena Landfill area.
- Reservoir characteristics and depositional environments of the Vedder Formation, Round Mountain.
- Middle Miocene depositional environments and fossil assemblages, including a tour of the famous Sharktooth Hill quarry.
- Geology of the Kern River Series, including glacial and interglacial history, and petroleum geology of the Kern River Field.

Cost of the trip is \$50 and includes field trip notes, transportation, lunch and a barbeque dinner at the California Well Sample Repository at CSUB. To receive a flier containing additional information on the trip, please contact Mike Minner at Texaco (805) 392-2557, fax (805) 391-4303 or e-mail minneme1@texaco.com.

Dinner Meetings are held the second Tuesday of each month (except summer months) at the American Legion Hall, 2020 H street, Bakersfield. The social hour starts at 6:00 p.m., dinner is served at 7:00 p.m. and the talk begins at 8:00 p.m.

San Joaquin Geological Society
P.O. Box 1056
Bakersfield, CA 93302
Contact: Mike Clark



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(805) 871-6136 hm

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Bakersfield, CA 93301
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(805) 398-8439 hm
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(415) 703-0950
E-mail: erogge@sfsu.edu

Address Changes

The Pacific Section would like to thank the following members for their donations to our Contributory Funds during the 1996-97 Fiscal year. Their generosity is greatly appreciated by the beneficiaries of these programs.

Bob Hacker Memorial Publication Fund	\$479.00
Martin Van Couvering Fund	\$164.00
Dibblee Map Foundation	\$718.00
California Well Sample Repository	\$921.00
John E. Kilkenny Memorial Scholarship Fund	\$2,691.00
<u>Total Contributions</u>	<u>\$4,973.00</u>

Bob Hacker Memorial Publication Fund

Bean	Betty A.	Green	Charles F.	Long	Robert E.
Berry	Keith D.	Hackel	Otto	Pitts	Kay L.
Clark-Hill	Marie J.	Heck	Ronald G.	Reid	Eugene (Bud)
Cressy, Jr.	Frank B.	Herrera	L.J. (Pat)	Traxler	J. D.
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Dudley, Jr.	Paul H.	Hunter	William J.	Wright	Thomas L.
Gorsline	Donn S.	Katherman	Charles E.		

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Curtin	Richard F.	Orlando	Robert C.	Traxler	J. D.
Gray, Jr.	Clifton H.	Reid	Eugene (Bud)		

Dibblee Map Foundation

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Bartlett	Wendy Lou	Gregory	Glenn	Salter	David C.
Bereki	Debra	Hunter III	Kenneth	Saucedo	George J.
Berry	Keith D.	Kennett	William (Bill)	Schussler	Sherryl
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Crouch	Marshall C.	Lownes	Richard E.	Traxler	J. D.
Curtin	Richard F.	Marshburn	Peg	Van Amringe	John H.
Deacon	Robert	Maynard	Robert G.	Vernon	James W.
Dorsey	Ridgely E.	McGurk	James L.	Welsh	Gordon J.
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				Wright	Mel E.

California Well Sample Repository

Armstrong	William "Casey"	Frames	Donald W.	Porter	Frederick C.
Bell	Pat	Gregory	Glenn	Ptasynski	Harry
Berry	Keith D.	Guerard	William F.	Stewart	Raymond F
Clare	Jack	Hart	Earl W.	Stinemeyer	Edwin H.
Clark-Hill	Marie J.	Henshaw	Paul C.	Suchsland	Reinhard J.
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Curtin	Richard F.	Howe	John W.	Traxler	J. D.
Day	Dan	Lamar	Donald L.	Tripp	Eugene
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Ferguson	Robert B.	Mefferd	M.G.	West	Jack H.

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Barminski	Joan R.	Kaplan	Ian R.	Smart	Robert R.
Barminski	Michael J.	Kelly	Robert B.	Sullwold	Harold H.
Bean	Betty A.	Kilkenny	Dorothy	Sumpf	Jean E.
Berry	Keith D.	Kirkpatrick	Darrel L.	Traxler	J. D.
Countryman	Robert L.	Kistler	Phillip S.	Van Amringe	John H.
Curtin	Richard F.	Louke	Gladys	Weddle	James R.
Day	Dan	Lownes	Richard E.	West	Jack H.
Gardett	Peter H.	Marshburn	Peg	Wright	Thomas L.
Gorsline	Donn S.	Off	Ted		

*Deadline for the
next issue is:
October 10, 1998*

*Check out the new Pacific Section
Web Site at:*

<http://www.west.net/~psaapg>

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E-mail: corebak@ix.netcom.com

CHANGE OF ADDRESS, subscription and membership inquiries should be directed to: **MEMBERSHIP CHAIRMAN, PACIFIC SECTION AAPG**, P.O. Box 1072, Bakersfield, CA 93302.

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