



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

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GUEST EDITORIAL . . .

THE ENERGY CRISIS — AND AAPG

As has been predicted for the past five years, the oil industry is now being blamed for the Energy Crisis. It is aggravating enough to be accused of contriving the shortage, which at least implies a certain degree of intelligence. What really hurts is when we are accused of having been too stupid to foresee the present situation.

We are fortunate that the crisis arrived when it did, instead of five years hence. We would have been better off if it had arrived five years ago. If we had been smart enough to contrive it, we would have contrived it then instead of now.

We have known for almost twenty years the inevitable outcome of artificial suppression of the wellhead price of natural gas, but nobody would listen. We have also known that as surely as the sun will arise tomorrow, we would get blamed for the shortage when it inevitably came.

We failed to convince anyone of the importance of petroleum and the fact that the supply was a dynamic and not a static thing, that even a minor disturbance in any part of the chain could upset the entire complex system.

At least one thing has changed in the last year — everyone knows there is a petroleum industry. People may not like us, but they are beginning to realize they can't get along without us.

As geologists, we all know that the supply of fossil fuels and radioactive material is finite. Long before petroleum and coal are exhausted, they will have become much too valuable as a source of raw materials to be consumed as fuels. In the meantime, before the perfection of the practical use of solar energy and nuclear fusion, we must depend on the fossil fuels and

uranium. These can be found only by the application of sound geological knowledge, not by political rhetoric or bureaucratic edict.

All of the major sources of energy presently used, with the possible exception of water power, are based on geology.

Not only the public and the government, but our own companies must realize that there is more oil and gas to be found. Petroleum, like water, is worth exactly what it costs to produce it, and if the price is artificially suppressed below the cost of production, it simply will not be available.

It is patently true that the day of cheap energy is at an end; but cheap energy provided by geological acumen has brought civilization to a point where it is better prepared to solve the problems of the future. When historians look back on the petroleum age, they will see that world civilization advanced more in the 150 years following the Drake Well than in any equivalent period in history.

These advances must be credited to the geologists who were able to locate supplies of energy so readily available and easily transportable throughout the world.

Let's not rest on our laurels, but continue in our efforts to supply more petroleum, if not for fuel, at least for the raw materials for the many products on which our life style depends.

At the same time, we must maintain flexibility to explore for additional uranium and to bring about a more universal application of geothermal energy, which probably is second only to solar energy as an ultimate source of power.

HENRY H. NEEL

President's Corner

"Bury me face down" said Diogenes, and when asked why he replied, "because in a little while everything will be turned upside down again." Don't get caught face down in this topsy-turvy energy crr-unch! We're going to turn it over again at the 49th Annual Pacific Section AAPG-SEPM-SEG meeting in San Diego April 24-26. Convention theme is, "Energy the Challenge and the Change." Hear it from the experts an exciting, stimulating and informative program, geared to pressing problems of the times, has been planned by your hard working Convention Committee, John Minch General Chairman, and hosted by the San Diego Association of Geologists. Find out the facts, where to find it, what the future holds for young and old and have a lot of fun doing it, at the beautiful Sheraton Harbor Hotel.

A major highlight, of this important gathering of the clan, will be the field trip to El Rosario, Baja California, to visit the type section for the Cretaceous of Northern Baja, plus a Mexican style Bar-B-Q on the beach featuring roast kid and cervesa. This will be a one day-two day option on Saturday and Sunday following the meeting. The Bar-B-Q will climax Saturday's activities.

You can't afford to miss this most important meeting. "What's good for the swarm is good for the bee." *Plan now* to be there and "help put Humpty Dumpty together again."

See you there — dios mediante.

EL PRESIDENTE

NEW ADDRESS

B. Brick Robinson has resigned from Shell in New Orleans after three long, damp years in the bayou country, and has taken on with Oxy in Houston. Mr. Robinson worked 18 years for Shell as a production geologist, primarily at Bakersfield and Ventura.

Sacramento

The following individuals are the newly elected officers for 1974 of the Northern California Chapter of API.

Chairman, E. D. "Gene" McCraw, Byron Jackson; First Vice Chairman, Hubert Mee, Standard Oil Co.; Second Vice Chairman, James Grimes, Union Oil Co.; Secretary-Treasurer, Sarge T. Reynolds, Tri-Valley Oil and Gas Co.

Meeting dates for the 1974 term have tentatively been set for March 19, May 21, September 20 and November 19.

On January 15, 1974 the Northern California Chapter of API held its first meeting of the year at the El Rancho Motel, West Sacramento. 60 members were in attendance for the dinner meeting.

Speaker for the evening was former State Geologist Wesley G. Bruer, who is currently the Energy Planning Coordinator for the Federal-State Fuel Coordination Center based in Sacramento. Mr. Bruer's topic was "California and the Energy Crisis."

The Sacramento Petroleum Association in conjunction with the Geological Society of Sacramento and Sacramento City College Geology Department will sponsor on February 21, 1974 a lecture by Dr. M. King Hubbert, Research Geophysicist for the U.S. Geological Survey, Washington, D.C. The title of Dr. Hubbert's lecture will be "The World's Energy Economy." The meeting will be held at the Sacramento City College, 3835 Freeport Blvd., 8 p.m. With the now present and controversial "Energy Crisis" a major concern and foremost topic of discussion the world over, Dr. Hubbert is one of the most qualified to present a comprehensive view of the world's energy needs. Dr. Hubbert's scientific work has included geophysical exploration for oil and gas and other minerals, structural geology and the physics of earth deformation; these being some of the continuing studies he has pursued of the "world's mineral and energy resources, and the significance of their exploitation to human affairs" for more than 40 years.

TERRY PLUMB

GEOLOGICAL REVIEWS

Application of Plate Tectonics to Petroleum Exploration at Continental Margins

By THOMAS L. THOMPSON

Approximately 90 percent of known reserves of oil and gas has accumulated within the past 250 million years concurrent with formation of the present ocean basins, island ridges, and linear mountain chains of Andean and Alpine types. Concepts of crustal rifting, sea-floor spreading, and plate tectonics help explain these tectonic features of the earth and may help locate additional reserves of petroleum, particularly along the present continental margins.

Differential extension of the lithosphere may result in high temperatures in the upper continental crust concurrent with local accumulations of shallow-water sands, carbonate rocks, euxinic muds, evaporites, and volcanic rocks. Where the lithosphere rifts apart, seawater encroaches and the asthenosphere wells up in the formation of oceanic crust. During continued divergence of the continents, this new crust subsides as it cools and moves away from the rifts, downwarping with it the thinned edges of rifted continental crust. Remnants of tear faults on the rifted continental blocks, and the presence of volcanic rocks and salt diapirs may be clues to petroleum provinces buried beneath the detrital continental rises and/or carbonate platforms that characterize such divergent margins.

Convergence of crustal plate margins (marked by oceanic trenches, linear trends of deep focus earthquakes, volcanic island ridges, and linear mountain chains) results in dominance of detrital over carbonate sedimentation, abrupt facies changes, locally rapid burial of deep water pelagic sediment with thick turbidites, shale diapirs, and layered sediment structures related to drape over differentially uplifted basement blocks, all on the trench side of volcanic island ridges and linear mountains. High temperature may accelerate the generation of petroleum on the continent side of such island ridges and mountains. Strike-slip displacements between adjacent crustal plates, combined with rifting or convergence, may explain other patterns of sedimentation, structure, and geothermal trends related to accumulations of oil and gas.

Alaska

Greetings again from the land of short days and long shadows and no days and all shadows in some parts this time of year. Sorry about the embarrassing string of "No Alaska Reports." Still just can't seem to get the hang of writing early this month for next month's NEWSLETTER. For instance I'm still gnawing left-over Thanksgiving turkey bones, but by the time this letter is published the jolly fat elf with the weird beard and red rompers will have completed his annual stocking stuffing and bill-fold flattening trip, and the holiday epidemic of bleary-eyes will be clearing up.

The Alaska Geological Society symposium in September turned out successfully financially, weatherwise and otherwise. The following hosses and their committees really deserve a whack on the back—friendly that is and not too low: Don Morris (Chairman); Dock Adams, Bill Barnwell, Bill Decker, Bob McCollum, John McKeever, Lydia Selkregg, John Sweet (Steering Committee); Charlie Sloan (Registration); Bill Long (Mechanical Arrangements); Al Scouler (Field Trip); Bill Edwards (Finance); Bill Lyle (Publicity); Dick Church (Advertising); Ernie Lian (Publications); Tom Wilson (Housing); Mrs. William Decker (Ladies' Entertainment); and an especial thanks to Bonita Lone and the Anchorage Desk and Derrick girls for their aid to several committees as well as adding a touch of beauty to the registration desk. Left out Marv Mangus (Entertainment) but I hear that he is still engaged in research in this direction on the culturally entertaining aspects of bottomless bars and massage parlors.

For those that missed out, a booklet of abstracts of most of the talks can be obtained from Ernie Lian, Marathon Oil Co., P.O. Box 2380, Anchorage, Alaska 99510 for \$2.00. Better order quick, Ern may have to raise the price since he got burgled a couple of days back.

Our October AGS Meeting was a presentation of "Depositional Anticlines" by AAPG distinguished lecturer M. E. Hennes. Unfortunately I missed this meeting, and for the first time in history the AGS failed to meet the bar guarantee—wonder if there is any correlation.

In November, Dr. Bill Long of Alaska Methodist University gave a
(continued on page 3)

ALASKA ...

(from page 2)

colorful presentation of "Geological Features of New Zealand." I kept looking for the Maori girls swinging the Eskimo yo-yos that they call poi balls — maybe next time.

Meanwhile Maynek Christmalek sulikoveanok tok Newtaak Opeak Youall which means Merry 25th of December and be happy starting January 1.

DICK E. ATCHISON

Northern California

NO REPORT.

Pacific Section

NO REPORT.

San Joaquin

NO REPORT.

PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS

Executive Committee

President	KEMPTON B. ("PETE") HALL (805) 646-4512
Vice-President	JOHN A. CARVER (805) 327-7351
Secretary	JAMES L. O'NEILL (805) 325-5746
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Editor	JOHN W. LIDSTROM (213) 380-5830

Newsletter Staff

Editor	JOHN W. LIDSTROM
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Membership Secretary	JUDY HUGHES

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Coast	RICHARD L. STEWART (805) 642-0376 or 963-6404
Los Angeles	TOM W. REDIN (213) 945-1221
Northern California	DAVID C. BUSHNELL (415) 894-0687
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Sacramento	TERRY PLUMB (916) 482-6457
San Joaquin	HAROLD SUGDEN (805) 399-2961
Recommended Reading	LUCY E. BIRDSALL (213) 688-2850

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Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

SHORT COURSE

Global Tectonics, California, and
Petroleum Exploration

Registration will begin at 8:00 a.m., February 22, 1974, at the West High School Lecture Center, 1200 New Stine Road, Bakersfield, California. There will be no advanced registration. The lectures will begin at 9:00 a.m. on Friday. The cost, which includes a publication of lecture notes, will be \$30.00 for members and non-members, with a reduced fee of \$15.00 for students. To facilitate registration, please have checks made out in advance and payable to the San Joaquin Geological Society. Extra copies of the publication will be available for \$5.00 during or after the course. Mail order requests for this publication should be accompanied by full payment.

For persons planning to attend, we suggest they arrange for accommodations as soon as possible.

R. B. TALLYN

J. F. PETERS

S. E. P. M.

New officers for the SEPM are:

President — Don Zenger

Dept. of Geology, Pomona College

Vice-President — Keith Green

Dept. of Geology, Cyprus College

Secretary — Harry Turbest

Texaco Inc.

Treasurer — Dave Ford

Union Oil Co.

The 1974 Fall Field Trip (October 18-19) will be on the Paleogene of Panoche Creek Area, California. Field trip chairman is:

Max Payne

Texful Petroleum

1105 Harvard St.

Santa Monica, California 90403

(213) 828-5359

All those interested in working on the field trip please contact Max.

CHOCOLATE MOUNTAINS

Near the southeast corner of California where the border joins Mexico and Arizona, the Chocolate Mountains rise along the eastern shoreline of Pleistocene Lake Coahuila.

Separated from the major Salton Sea tectonic depression by an active San Andreas fault zone, the crystalline hills and peaks of granites, preCambrian igneous and metamorphics are liberally interspersed with blocks of pre-Cretaceous meta-sediments and Tertiary basalts, andesites, and pyroclastics.

The austere, dry topography, hides the remains of many old mines and desert roads.

The mountains reach 2 to 4,000 feet

above the level of the Salton Sea which fluctuates a few feet either side of 230' below sea level.

Other ancient shorelines are still visible 400' above the Salton sink which contains 10-15,000' of sediments on basement rocks similar to those surrounding it.

Tectonic relief is on the order of 3-4 miles vertically — comparable to the east flank of the Sierra Nevada.

Recent movements are visible in the erosion and fault scarps of the fans surrounding the mountains.

Hot springs and earthquake epicenters are abundant, the countryside quietly awaits the next throb of the Circum-Pacific pulse.



Chocolate Mountains

CONVENTION NEWS

The San Diego Association of Geologists will host the 49th Annual Meeting of the Pacific Sections of the AAPG, SEG and SEPM to be held April 24-27, 1974 in San Diego, California. Approximately 800 geologists, geophysicists, students, wives and guests are expected to assemble at the Sheraton Harbor Island Hotel conveniently located on Harbor Island next to the San Diego Airport.

The technical program, with the theme "Energy: The Challenge and the Change," is designed to highlight challenges and changes we are facing in our quest to supply energy to a growing world. The opening session will feature talks on energy resources including a close look at oil shales.

The AAPG program will deal with the widespread search for onshore and offshore petroleum basins from the Bering Sea to Mexico. The possible extension of our horizons into unmetamorphosed "pre-batholithic" rocks and "diapiric" asphalt intrusions will be presented.

The SEPM program is centered around the "Cretaceous." Papers will deal with aspects of Cretaceous paleontology and stratigraphy as a highlight to the current interest in West Coast Cretaceous.

The SEG program is dealing with the geology and geophysics of offshore areas. New methods and techniques will be discussed along with the application of "Bright Spot" exploration.

A prominent figure on the energy scene will be the keynote speaker to emphasize the theme of the convention and the importance of changes necessary to meet our challenges.

Entertainment during the meeting will start with a mood setting "shake down cruise" around San Diego Bay departing directly from the convention hotel on Wednesday and will include a colorful dinner-dance, Mexican style, Friday night.

Ladies' entertainment includes a half-day session on "Energy and Other Topics Made Easy" and a shopping tour of Tijuana. San Diego is vacationland and features such as Sea World, the San Diego Zoo, Mission Bay and Mexico provide a constant variety of things to do.

A major highlight of the meeting will be the field trip to El Rosario, Baja, California to visit the type sections for the Cretaceous of northern Baja, California. Gordon Gastil, field trip chairman and Frank Kilmer, who redefined the Cretaceous in Baja, Cal-

ifornia will lead the one-day - two-day option-trip. A Mexican-style Bar-b-que on the beach featuring roast kid and cervesa will climax Saturday's activities. The Guidebook, with many excellent articles, will feature the new geologic map of the State of Baja California.

JOHN A. CARVER

Los Angeles

Here are the election results for the Los Angeles Basin Geological Society 1974 officers:

President	Louis Heintz
Vice President	Bruce Ellison
Secretary	Marie Clark
Treasurer	John Hackett

On Thursday, January 31, 1974, at noon, Roger Young Auditorium the LABGS will have as its guest speaker AAPG distinguished lecturer, Dr. Thomas L. Thompson. The title of his paper will be "Application of Plate Tectonics to Petroleum Exploration at the Continental Margins." Dr. Thompson is presently with AMOCO Production Company (Standard of Indiana) where for the past five years he has studied world continental margin geology and oceanic resource evaluation. Enclosed is an abstract of his lecture.

The present staff of the LABGS plus a little prodding from me are considering moving our noon meetings from Roger Young to the Taix Restaurant on Sunset Blvd. They can accommodate us at about the same price. If anyone has an objection, contact the new president sometime in January.

Future Calendar Items

April: Dr. Martin Stout, Professor, Cal State L.A.; "Slope Stability Problems in the L.A. Basin."

February: Dr. T. L. Teng, Asst. Professor of Geophysics, USC; "Recent Seismic Studies in the L.A. Basin."

TOM REDIN

DID YOU KNOW

Mr. Frank Parker, venerable past president and philosopher has most generously accepted appointment to the post of Pacific Section Archivist and Permanent Historian.

Anyone having items or material relating to past history or activities of the section, not subject to liable, are urged to contact Frank so that he may, from time to time and as the spirit moves him, cause them to be published in the NEWSLETTER for posterity.



Aden W. Hughes

All who knew him were shocked and saddened by the sudden passing of Aden W. Hughes from heart failure on November 10, 1973.

Aden's career in the oil industry spanned half a century, beginning in 1923 with part time work in the Torrance field while he was a student at USC and continuing, with one short interruption, until his death.

Leaving USC in 1925 he was employed by the Chanslor Canfield Midway Oil Co. as a petroleum engineer. When he was laid off during the depression because the company decided to retain married men and let bachelors go, he returned to USC where he received his B.A. degree in Geology in 1935.

Later in 1935 he was employed by the Union Oil Co. of California as a paleontologist. In 1936 he was transferred to Bakersfield, and in 1941 was promoted to Division Paleontologist for Union's Coast Division at Orcutt where he remained until 1951.

He left Union in 1951 to join Dr. Paul P. Goudkoff to form the firm of Goudkoff and Hughes. After Dr. Goudkoff's death a few years later, Aden carried on the business alone.

A thoroughly competent paleontologist and stratigrapher of wide experience, Aden covered all of the oil and gas producing basins of California. With Louis J. Regan he was co-author of an excellent paper on "Fractured Reservoirs of the Santa Maria District" (AAPG Bull., Vol. 33, No. 1, 1949). His contributions to field trip guidebooks were numerous.

We have lost an outstanding geologist, a real gentleman, and a fine friend. We will miss him.

EXECUTIVE COMMITTEE

The Executive Committee held its meeting on December 11, 1973 at Occidental Petroleum Company's Bakersfield office.

Treasurer Bill Adent reported all bills are paid. The Convention Funds A & B are to be limited to \$5,000 each with the surplus from Fund A transferred to the Operating Fund and the surplus from Fund B to be advanced to the 1974 Convention Finance Committee to help meet early financial obligations that may occur prior to the convention taking in any money. Adent submitted a financial statement of the Pacific Section Funds as of September 30, 1973.

Adent reported the Pacific Section is committed to \$12,000 toward the Kleinpell publication. This \$12,000 is to be used for gathering data, drafting, compiling faunal lists, maps, etc. The SEPM will reimburse the Pacific Section for 25% of this cost but reimbursement to be recovered out of sales. National AAPG has indicated they will underwrite the printing and editing costs. John Kilkenny and Don Hallinger are to coordinate efforts to obtain this agreement with National.

W. Ken Graves, CPA, has been hired on a one (1) year trial basis to handle the Pacific Section accounting.

Editor (not present)

President Hall reported the Editor is having difficulty getting news for the PPG NEWSLETTER. Hall suggested that a worthy item would be a recap of the history of the Pacific Section — this would help acquaint new members with the Section.

Frank Parker was suggested as historian for the Pacific Section. A motion was made and seconded that Frank Parker be appointed permanent historian. Pete Hall will inform Parker of his unanimous selection.

Publications

Pete Hall reported sales to date, December, 1973, \$9,814.50. Checking account contains \$3,286.33 with an additional \$600.00 to be deposited. Outstanding bills are approximately \$1,000.00.

Committee Reports

a. 1974 Convention—San Diego

John Minch, Chairman, submitted a progress schedule and preliminary outline of program. Hall and Carver to submit summary of Convention program to National by December 15, 1973 for publication in the March bulletin. Convention theme is "Energy, The Challenge And The Change."

b. Constitution and Bylaws

Stan Eschner, Chairman, proposed dropping the retiring president from the Executive Committee. The Executive Committee agreed to this proposal.

A motion was made and seconded that a copy of the Pacific Section Bylaws be sent to National for their review and comment in order to avoid any conflict with National's Constitution and Bylaws.

Spring Field Trip and Barbecue

This annual event will be held in June, 1974, no specific date has been set. Traxler suggested the field trip follow the Pacific Section field trip held in 1964 covering the Eocene Outcrop along the Wheeler Ridge-San Emidigo area. The Section has 800 of these guide books in stock and a field trip in this area could help sell them.

It was suggested holding the barbecue in the Grapevine area. The golf tournament to be held at the Valencia Country Club.

No final decisions were made on the above.

Legislative Committee

No information.

Martin Van Couvering Award

Dick Hester, Chairman, suggested the Pacific Section, SEPM and SEG each select two students for this award. The award to consist of free registration, guide book, \$50 to help defray expenses at the Spring Convention in San Diego and a one-year membership in the Pacific Section.

Affiliated Society Reports

National wants to know if the Pacific Section will take a booth at the National Convention to be held in San Antonio to display and sell Pacific Section publications. The cost for the booth is \$50. It was suggested that the National's Exhibits Chairman be contacted to see if local people would be available to man the booth.

Correspondence

a. Bob Kleinpell wrote giving general summary of program in gathering data for his publication. He believes he may wind up the necessary field work by 1974.

b. John Kilkenny, National Distinguished Lecturer Committee, will help coordinate the Distinguished Lecturer trips for the Pacific Coast Section. Hopefully, through coordination, a Distinguished Lecturer could speak to all Societies wanting to hear his talk on one trip.

Alaska Geological Society has questioned benefits of affiliation with the Pacific Section. The \$2 rebate, PPG NEWSLETTER, Publications and affilia-

tion with an organization with sufficient membership to be influential with National affairs were a few of the benefits mentioned.

National requests single nominations for Editor for 1975-76. Names suggested were Bill Moran and Tony Morris. Kilkenny will contact Moran and Traxler will contact Morris.

Continental Airlines has proposed a special fare for the Los Angeles-San Antonio National Convention flight. Will ask Continental to send this information on to the Pacific Section membership.

Northern California Geological Society to publish San Joaquin Bibliography and Geology. This will require \$2,500. They have \$1,000 coming from the Arctic Symposium. Hallinger to be contacted to see if the Pacific Section can loan the additional \$1500 needed out of Publication funds. The money to be paid back out of sales.

Other Business

John Kilkenny reported H. Hoots, L. F. McCullon and King Hubbard were made honorary members of National.

Moses Knebil will be presented Sidney Powers Award.

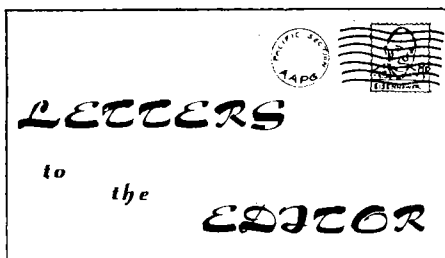
Art Spaulding to be contacted regarding publicity the Western Oil and Gas Association may be able to furnish for the forthcoming Pacific Section Convention at San Diego.

AAPG CONVENTION IN SAN ANTONIO

Continental Airlines can save you \$39.00 on your air fare to the upcoming AAPG Convention in San Antonio. To take advantage of this terrific savings, we need a minimum of 10 or more persons originating together on the same flight out of Los Angeles. However, you may return separately. The round trip group fare is \$154.27 — including tax and security charges. We have blocked seats on the following flights for your group. Confirmed reservations will be on a first come-first serve basis:

Flight Number	Continental 52
Date	March 30/March 31
Depart Los Angeles	8:00 a.m.
Arrive San Antonio	1:15 p.m.
Meal	Breakfast

For further information and reservations, call Continental Airlines at (213) 646-4246. If you reside in the outlining areas of Los Angeles, call the local Continental number as listed in the telephone directory. Ask for Rose Walters at Extension 4246. Identify yourself as a member of the AAPG group and you will be included in the special low fare.



I recently opened the December issue to page 4 and was amazed, pleased, and maybe even confounded to find the poem of subject title written by "Bud Ogle." I haven't seen this epistle since about 1954 (I think) when I first wrote it under the title of "Geologist's Lament" (after the style of cowboy sagas). At that time I was living in Denver and it was published at that time in the Rocky Mountain Association of Geologists Monthly fish-wrapper.

It's surprising to me, trying to read this critically and retrospectively, how little the characters in the "oil game" have changed in 20 years.

All of the card-carrying members here in Santa Barbara, "Oil Capital of the World" (ask GOO), appreciate your efforts in putting out an interesting and well-written house organ. (Like, look at the quality of the December issue!

Sincerely yours,

BUD OGLE

Coast

NO REPORT.

RECOMMENDED READING

ARIZONA BUREAU OF MINES

Bulletin 187: Index of mining properties in Cochise County, Arizona by Stanton B. Keith\$1.00

Bulletin 188: The mineral industry of Arizona in 1971, by Lyman Moore15¢

CALIFORNIA DIVISION OF MINES AND GEOLOGY

California Geology, vol. 26, no. 11, November 1973

Extraction of sand and gravel in Orange County, California, by James R. Evans

Palygorskite found in the northern Puente Hills near Pomona,

by Gerald Henderson

New mineral in Trinity County (silhydryte)

California Geology, vol. 26, no. 12, December 1973

Some features produced by the earthquake of 21 February, 1973, near Point Mugu, California,

by D. M. Morton and R. H. Campbell

Mining activity in California, July 1972 through June 1973,

by Fenelon F. Davis and James R. Evans

ORGEON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

The Ore Bin, vol. 35, no. 11, November 1973

Stratigraphic and biostratigraphic relationships of the Tyee and Yamhill formations in central-western Oregon, by Robert G. McWilliams

Bulletin 79: Environmental geology of inland Tillamook and Clatsop Counties, Oregon,

by John D. Beaulieu\$6.00

OKLAHOMA GEOLOGICAL SURVEY (830 Van Vleet Oval, Room 163, Norman, Oklahoma 73069)

Models of sand and sandstone deposits: A methodology for determining sand genesis and trend,

by John W. Shelton (Bulletin 118) paperbound\$3.00

clothbound\$4.00

U.S. GEOLOGICAL SURVEY

Professional Paper 574-E: Airborne chemical elements in Spanish moss, by H. T. Shacklette and J. J. Connor\$1.25

Professional Paper 802-A: Principles and measuring techniques of turbulence characteristics in open-channel flows,

by R. S. McQuivey\$1.80

Professional Paper 812-A: A photometric technique for determining planetary slopes for orbital photographs, by W. J. Bonner and R. A. Schmall40¢

Professional Paper 825: Ostracodes from Lower Devonian formations in Alaska and Yukon Territory, by J. M. Berdan and M. J. Copeland\$1.75

MAPS:

GQ 1014: Geologic map of the Laguna Dam Dam 7.5" quadrangle, Arizona and California, by F. H. Olmsted\$1.00

Map I-749: Reconnaissance geologic map of the Nabesna A-2 quadrangle, Alaska, by D. H. Richter and D. L. Jones75¢

MF 519: Preliminary photointerpretation map of landslide and other surficial deposits of the Livermore and part of the Hayward 15-minute quadrangles, Alameda and Contra Costa Counties, Calif., by T. H. Nilsen\$1.00

MF 527: Preliminary geologic and metamorphic-isograd map of the Juneau B-2 quadrangle, Alaska, by A. B. Ford and D. A. Brew50¢

MF 533: Map showing evidence for recent fault activity in the vicinity of Antioch, Contra Costa County, Calif., by D. B. Burke and E. J. Helley50¢

MF 537: Preliminary geologic map of the Carlin Gold Mine, Eureka County, Nev., by A. S. Radtke50¢

GQ 1012: Geologic map of the White Mountain Peak quadrangle, Mono County, Calif., by D. F. Crowder and M. F. Sheridan\$1.00

HA-489: Base of fresh ground water (approximately 3,000 micromhos) in the San Joaquin Valley, Calif., by R. W. Page75¢

I-606: Geologic map of the Duffer Peak quadrangle, Humboldt County, Nev., by J. G. Smith75¢

MF-525: Reconnaissance geologic map of the Beaver quadrangle, Alaska, by W. P. Brosge, H. N. Reiser, and Warren Yeend50¢

MF 539: Preliminary geologic map of the Hunter quadrangle, Elko County, Nev., by K. B. Ketner50¢

U.S. BUREAU OF MINES (Government Printing Office, Washington, D.C. 20402)

IC 8609: Offshore petroleum studies: Nomography for estimating hydrocarbon lease bonus bids in the Gulf of Mexico. Supplement to Bureau of Mines IC 8557, by L. K. Weaver, H. F. Pierce, C. J. Jirik, and J. G. Thompson. 1973. 12 pp. 2 figs. (GPO No. I28.27:8609.)40¢

P.S. BUREAU OF MINES (Publications Distribution Branch, 4800 Forbes Ave., Pittsburgh, Penna. 15213)

RI 7791: Radioactive tracer pulse method of evaluating fracturing of underground oil shale formations, by Philip B. LorenzFree

INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, UNIVERSITY OF CALIFORNIA, RIVERSIDE, CALIF. AND DEPARTMENT OF WATER RESOURCES, STATE OF CALIF.

Contribution 73-7 (of the IGPP, URC) Preliminary findings of an investigation of the Dunes Thermal Anomaly, Imperial Valley, California, by Tyler B. Coplen, Jim Combs, Wilfred A. Elders, Robert W. Rex, George Burckhalter and Robert Laird

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 84, no. 11, November 1973

Variations in Sr, Rb, K, Na, and initial Sr^{87}/Sr^{86} in Mesozoic granitic rocks and intruded wallrocks in central California, by Ronald W. Kistler and Zell E. Peterman

(continued on page 8)

RECOMMENDED READING...

(from page 7)

Variations in lead-isotopic compositions in Mesozoic granitic rocks of California: A preliminary investigation, by Bruce R. Doe and Maryse H. Delevaux

Tesla-Ortogonal Fault, Coast Range Thrust Fault, and Franciscan metamorphism, northeastern Diablo Range, California, by Loren A. Raymond

Observations of beach cusps at Mono Lake, California, by Paul D. Komar

Emplacement of a dike swarm in the Buffalo Mountain Pluton, Nevada, by Thomas R. Neff

Relations between the Keystone and Red Spring Thrust Faults, Eastern Spring Mountains, Nevada, by Gregory A. Davis

Structural studies in southern Nevada and western Arizona: A correction, by Chester R. Longwell

Steady plate motion and episodic orogeny and magmatism: A correction, by James Gilluly

Age and correlation of the Windermere group in northeastern Washington, by Fred K. Miller, E. H. McKee, and R. G. Yages

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 84, no. 12, December 1973

Timing of Mesozoic and Cenozoic plutonic events in Circum-Pacific North America, by Marvin A. Lanphere and Bruce L. Reed

Geologic factors affecting compaction of deposits in a land-subsidence area, by William B. Bull

Suspended sediment transport on the Northern Oregon Continental Shelf, by John C. Hartlett and L. D. Kulm

Linear vent area of the Soldier Meadow, Tuff an ash-flow sheet in northwestern Nevada, by Marjorie K. Korrington

Distribution and transport of suspended particulate matter in Hueheme, Redondo, Newport, and La Jolla Submarine Canyons, California, by David E. Drake and Donn S. Gorsline

Reinterpretation of the boundary between the Cosumnes and Logtown Ridge Formations, Amador County, California, by Robert V. Sharp and Wendell A. Duffield

GEOLOGICAL SOCIETY OF AMERICA (Publications Sales Dept., 3300 Penrose Place, Boulder, Colorado 80301)

Memoir 133: Environmental framework of coastal plain estuaries, edited by Bruce W. Nelson. 619 pages\$25.00

Special Paper 141: Conodont paleozoology. Edited by Frank H. T. Rhodes. 296 pages\$12.75

Special Paper 143: Bibliography of theses in geology, 1967-1970 (by Dederick C. Ward. 160 pages \$15.00

Special Paper 144: Paleohydrology and sedimentology of Lake Missoula flooding in eastern Washington, by Victor R. Baker

THE JOURNAL OF GEOLOGY, vol. 81, no. 4, July 1973

Island-arc evolution and related mineral deposits, by Andrew H. Mitchell and J. D. Bell

Plume-generated triple junctions: Key indicators inapplying plate tectonics to old rocks, by Kevin Burke and J. F. Dewey

Texture and dispersal of sediments in the Panama Basin, by Tjeerd H. van Andel

Biogenic sediments of the Panama

Basin, by T. C. Moore, Jr., G. Ross Heath, and Renato O. Kowsmann

Coarse components in surface sediments of the Panama Basin, Eastern equatorial Pacific, by Renato O. Kowsmann

AMERICAN JOURNAL OF SCIENCES, vol. 273, no. 9, November 1973

On the interpretation of cordilleran orogenic belts, by R. W. R. Rutland

BOOKS:
Cascadia: The geologic evolution of the Pacific Northwest, by Bates McKee. Pp. 394, 4 full color maps. McGraw-Hill Book Co., New York, 1972. paperback\$9.95
hard cover\$12.50

The Ice Age, by Bjorn Kurten. Pp. ???, New York, G. P. Putnam's Son, Inc. 1972.\$16.95

Evolving concepts in sedimentology, edited by Robert N. Ginsburg. The Johns Hopkins University Press, Baltimore, Md. 21218\$10.00

Carbonate cements, edited by Owen P. Bricker. Johns Hopkins University Press, Baltimore, Md. 21218\$15.00

Glossary of Geology. Published by American Geological Institute, 2201 M St., NW, Dept. A, Washington, D.C. 20037

The Persian Gulf: Holocene carbonate sedimentation and diagenesis in a shallow epicontinental sea, edited by B. H. Purser. 1973. Published by Springer-Verlag, New York. Cloth\$29.70

Hot brines and Recent heavy metal deposits in the Red Sea: A geochemical and geophysical account. Edited by Egon T. Degens and David A. Ross. 1969. Published by Springer-Verlag, New York ..\$32.00

LUCY E. BIRDSALL

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

VOLUME 28

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NUMBER 3

GUEST EDITORIAL . . .

THE CHALLENGE AND THE CHANGE

"The CHALLENGE" — has been recognized by petroleum geologists for many years as indicated by the following summary statement (By Mike Halbouty) at the Pacific Section meeting in Los Angeles — November 1960.

"The Summary" —

"I want to end this presentation by making it perfectly clear that, in my opinion, this country is reaching toward a severe economic crisis, as well as an imposition on our national security by our not doing everything possible to increase our domestic production now. To continue along the downward exploratory curve which we are now experiencing will surely result in economic chaos 10 years from now. The impact of an energy shortage in this country would be absolutely disastrous.

"Unless there is an appreciable and sustained turn-around in our exploratory activities, I can safely predict that between now and 1975, we will have an energy crisis in this country which will cause repercussions throughout the width and breadth of this great nation of ours like a devastating earthquake.

"I have stated this before and I will say it again, it is appalling to me that the American people can be so apathetic to what is so obvious to some of us in industry. The people of this country just do not care. They are not experiencing shortages now and evidently they care less what will happen in the future. Some of these days the shortage will catch up with us and then the people will say 'the industry is to blame' — 'why weren't we told?' Well, I am telling them now, but I am sure they won't pay much attention to what I, as an individual, have to say. It is up to organizations like AAPG to pass the word. Maybe

the people will pay some attention to 15,000 geologists who belong to our organization. One fact is certain: we must do everything possible to encourage more exploration in this country."

"The CHANGE" — hopefully is indicated as an important elected official (Governor Reagan) during his State of the State message (January 9, 1974) quoted most of this summary statement, thus perhaps indicating that responsible and important people (other than geologists) now recognize the pressing need for greatly accelerated Domestic Exploration — in California and the rest of the U.S.A.

Perhaps, if each of us (Before, During, and After the San Diego Meeting) puts forth an adequate effort, some other influential people can be convinced of the CHALLENGE and persuaded to act affirmatively in connection with Exploration in California.

PETE GARDETT

CHANGE OF ADDRESS

Reserve Oil and Gas Company (ASE, PSE) has elected three vice presidents and will centralize its exploration, producing and operating activities in Denver.

Marshall C. Turner was elected vice president/operations, **William H. LeRoy** was elected vice president/exploration and **Robert E. Aberley** was elected a vice president and will continue as the Company's treasurer.

All the promotions became effective January 1, 1974. On that date, Turner and LeRoy transferred to the Company's new operating office in Denver, which was established January 1. **Peter Bosche**, manager of lands, was also transferred to Denver.

President's Corner

Dr. Kleinpell reports good progress in updating of Miocene stratigraphy work with high hopes of completing his field investigations in the upcoming year.

The following is quoted from a recent report on a safari to the northern latitudes.

"The field trip in reference was to the Willipa River section, the type Lincoln Creek, the type Blakeley, type Blakely Harbor, and related outcrops of significance for the lower part of the foram sequence I'm working at up-dating, and from which I have seen bugs by the hundred though without ever having seen them in field context at these critical localities. Through the immeasurably helpful assistance of Weldon Rau and Charley Fulmer this work was made possible late in August, and a number of long-time puzzles about Oligocene-Miocene relationships up there have been cleared up mightily, all with bearing on the middle Tertiary bug-sequence of California and the West Coast generally. From headquarters here to Puget Sound and back (with overnight stops at Redding, Olympia, Aberdeen, Bremerton, Coos Bay, Eureka and return) it was an eight-day field trip."

Additional trips to southern latitudes are contemplated by Dr. Kleinpell as quoted below:

"You will probably want to know that three or more field trips will probably still be in order before the up-dating job is through, but if so they should all be shorter ones and all in California. Nor, for your financial purposes, are they due during either this calendar or this fiscal year; they will be carried out by way of final checking up in the field on critical up-dating data in the L.A. Basin, Ventura-Santa Barbara, San Joaquin Valley and Monterey areas, and none of them should be of any extensive duration."

PETE HALL

Alaska

Howdy you all:

Greetings again from the world's largest ecological, environmental, and pipeline laboratory, i.e., Alaska National Park. Watch out world, our legislative group is again gathered on the Gastineau for fun and games. All rings considered—can't guarantee that it's the best political circus but we sure do have some expensive clowns (thankfully in all fairness there's a few pretty good hosses too). Looks like we are going to vote (again) on moving the capitol. It will never happen, but convening in January at Attu, Little Diomed or Barrow sure would reduce the amount of time that the lid is off the pork barrel.

Meanwhile back at Rancho AGS we still meet at noon on the fourth Thursday of the month (except February and April so far). February we meet the 11th to hear an AAPG Distinguished Lecturer — Dr. T. L. Thompson — from Amoco Research in Tulsa present "Application of Plate Tectonics to Petroleum Exploration at Continental Margins." Don't know if he knew that was Fur Rendezvous week or just lucked out.

Fur Rondy week in Anchorage is when bankers grow beards, and even cat lovers expound canine expertise regarding wheel, team, swing and lead dogs, and who will break trail and who will get the lantern. Probably should have said, "Whom" since I'm writing from the BP Building. There is also fur auctions, parades, bike and car ice racing, shoe baseball and some Eskimo games such as ear-pull, two legged high kick, and blanket toss. For those interested in two-legged high kick, you can train by jumping up straight legged and trying to put both legs in your britches at the same time. Blanket toss could be more sporty with 180 degree change in technique. The Eskimos toss the girls up.

Sorry you hosses weren't here, particularly Ex-Sourdoughs, you would have enjoyed it. Still time to get up for the Arctic Winter Games March 3-10 though.

Speaking of March, the AGS will meet at noon on the 28th at the Captain Cook to hear Don McGee of the Alaska Division of Oil & Gas talk about the Beluga Coal Fied. Then on April 26th another AAPG Distinguished Lecturer Mr. C. H. Bruce will present "Preserved Shale and Related

Sediment Deformation: A Mechanism for Development of Regional Contemporaneous Faults." Phone connection wasn't too good but I think that is the right title and not the abstract.

Haven't seen any new faces in the AGS crowd lately. Missed a few old faces, but figured they were around and I just couldn't recognize them through Fur Rondy beards. I'm happy to hear that Bill Van Alen is out of the hospital and home recuperating after being shuss-boomed off a Poma lift. Also that John McKeever will soon be out of a splint from a knee greasing. We are finally getting a little snow too. Sure hope it is enough so that I can blast my snow machine across Al Sisson's yard.

Have a hearty Valentine

Eggy Easter, and a

Watermelon 4th of July.

Buenos snowshoes youall,

DICK E. ATCHISON

NEW STATE GEOLOGIST

James E. Slosson has been named state geologist and chief of the Division of Mines and Geology.

The division is part of the Department of Conservation. As such, Slosson will report to Ray B. Hunter, director of the department.

Slosson, who succeeds Wesley Bruer, joined the division in 1973. He is a native Californian and a graduate of the University of Southern California.

He also holds masters and doctorate degrees in geology from USC, where he earned three letters in track.

Slosson served as a faculty member at Los Angeles Valley College from 1950 to 1973, teaching geology and coaching the track team. From 1954 to 1962 he was an assistant track coach at USC.

A registered geologist in California, Idaho, and Arizona, Slosson has worked for the U.S. Geological Survey, the Department of Water Resources, and the Gulf Oil Corporation. Before entering state service, he formed his own consulting geological firm.

A resident of Sacramento, he is currently president of the California section of the American Institute of Professional Geologists and a member of 11 professional, scientific, and academic societies. Recently he was appointed to the scientific panel of the Earthquake Engineering Research Institute and to the landslide mitigation panel by the National Academy of Science.

1974 AAPG - SEPM CONVENTION

San Antonio, April 1-3

This year special emphasis will be on the search for stratigraphic traps. Major sessions on "Stratigraphic Exploration" will include papers on facies analysis in stratigraphic exploration, a statistical study of the Powder River Basin, application of isopach maps and cross sections to exploration in the Mid-Continent area, oil column calculation in stratigraphic traps, detailed examples of stratigraphic exploration programs, fracture porosity and permeability in stratigraphic traps, environmental log analysis, stratigraphic models, and the use of new tools and methods in the search for stratigraphic accumulations. Several case histories of stratigraphic oil and gas fields also will be presented.

The AAPG research symposium will focus on topics of great current interest. The results of AAPG's major research project, the Geothermal Survey of North America, will be presented as well as discussions of the relation between geothermal gradients and the occurrence of oil and gas and the nature and origin of geothermal deposits. Many of the nation's foremost geothermal researchers will present the results of their current studies. Their papers will enhance our fundamental knowledge of the relation between heat flow, subsurface temperatures, diagenesis, hydrocarbon generation, hydrothermal mineralization and commercial geothermal deposits. Direct application of this knowledge to exploring for both geothermal deposits and petroleum accumulations will be the focal point of several papers.

The SEPM research symposium will focus on the genesis of deep-sea sediments. The Deep Sea Drilling Project and other studies over the last several years have provided a mass of data on the character and distribution of deep-sea sediments. The day-long symposium on Tuesday, April 2, will include papers which synthesize these data and which offer genetic interpretations for major types of deep-sea sediments. Also, processes of sediment transport, diagenesis of sediment and organic matter, the question of ancient deep-sea sediments preserved on continents, the chemical evolution of the ocean and deep-sea sediments will be presented and discussed by prominent workers in these fields.

EXECUTIVE COMMITTEE MEETING

1974 Convention

Mr. Minch reported that 1974 Convention affairs are going well. Announcements will be placed in the *Bulletin* shortly. Some papers are still needed. Mr. Adent suggested a format and will try to get several papers lined up re the operation of the State Coast Commission on Geology. Mr. Spaulding stated that he is arranging for a discussion session on energy for the ladies' program. Lt. Governor Reincke will be the keynote speaker at the convention general luncheon. The dates for the convention are April 24-28 with the principal days April 25-26. Geologic maps for the field trip to Baja California have been received from the USGS. The Icebreaker party is estimated to cost about \$4.00 per person, luncheon cost is estimated to be \$6.00, the dinner-dance to be \$25.00 per couple, guide books to be about \$12.00, and the field trip about \$15.00. Registration fees were discussed. It was moved by Mr. Spaulding, seconded by Mr. Carver, voted and passed that registration fees not exceed \$15.00. Mr. LeConte reported that ad sales were good.

Advisory Council

Mr. Kilkenny reported that he will attend the Southwest Section meeting in the near future and that he will be able to discuss problems there with national officers, such as funds for the Kleinpell publication.

Geological Coordinating Committee

Mr. Fiester reported on the core and sample library problem. Local people will be selected to go through available material to determine that worthy of keeping.

Location Report, 1975 Convention

After discussion re the investigative work submitted by D. Traxler, it was moved by Carver, seconded and passed that Long Beach be the site for the 1975 convention. The Queen Mary is a leading contender as a specific site.

Legislative Committee

Dennis Allen stated that all legislative activity is centered around engineering geology at the present time. Two bills are now law: (1) SB 893, which requires that the State Geologist file an annual report, and (2) SB 1114, which requires school buildings along faults to be replaced. SB 1372 was passed by the Senate and passed on to the Assembly. This bill orders local jurisdictions to adopt certain minimum earthquake standards for buildings and requires that a Cer-

tified Engineering Geologist sign the report on the geology underlying the building.

Constitution and By-Laws

A letter has been received from National AAPG generally approving the By-Laws as amended. These will be published in the *NEWSLETTER* and voted on by the membership.

Affiliated Society Reports

Mr. Hubbell inquired about public information release by locals as versus the Pacific Section. Mr. Hall stated that he felt the locals should handle. A discussion was held regarding liability insurance of local officers at meetings. The Pacific Section has such insurance. The matter will be looked into for the locals.

Other Business

A public relations consultant will be hired for two days at \$125.00 per day for the San Diego Convention. (Left out of Section 6-A.)

The National AAPG has requested donations for an award to the Schlumberger Brothers for well log development. After discussion, it was moved by Hubbell, seconded by Carver and passed that the Pacific Section, representing the affiliated societies, donate \$100.00, if other action has not been taken previously on this request.

CHANGE OF ADDRESS

Don Collins, after 23 years with Shell in the Western United States is maintaining his Bakersfield home by joining Oxy. After all that commuting to Los Angeles it must be a relief to cross town on Mondays instead of two mountains and a pair of basins to get to work.



"WHAT AN ORIGINAL IDEA -- OIL FROM CHEESE AND GRANITE! OUR TWO STATES COULD BECOME SELF-SUFFICIENT IN ENERGY!"



WHAT'S THEIR ABOUT 1,000,000 CUMULATIVE LAWYERS AND PRODUCTION? 10,000 LAKES!



PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS

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Los Angeles TOM W. REDIN (213) 945-1221
Northern California DAVID C. BUSHNELL (415) 894-0687
Northwest

Sacramento TERRY PLUMB (916) 482-6457
San Joaquin HAROLD SUGDEN (805) 399-2961
Recommended Reading LUCY E. BIRDSALL (213) 688-2850

NEWSLETTER of the Pacific Section—American Association Petroleum Geologists is published monthly by the Pacific Section.

Material for publication and requests for previous copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3550 WILSHIRE BLVD., L.A., CALIF. 90010.

Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

Northern California
NO REPORT.

THE NIGHT BEFORE THE CRISIS—1973 (or For Crisis Sake)

Twas the year of the crisis
when all through the land
No rigs were drilling because of the ban
The ecology buffs were smirking and licking their chops
While Oilmen were scrambling to find a few drops
and Nixon and his Cabinet with Morton and crew,
Were stumbling and fumbling and wondering what to do
When out across the land there arose such a slowdown
I wondered what could possibly be the lowdown
I sprang to the T.V. and turned on the news
Sat back and listened a bit confused
The U.S. on the crest of the newfallen dollar
Gave foreign exploration a much tighter collar
When what to our wondering eyes should appear
But the signs of a shortage that caused great fear
From a little ole oilman so knowledgeable and fair
I hoped he'd quickly make the world aware
More rapid than eagles his supporters they came
And he gave the facts and then called them by name:
Now Oxy, now Union, now Arco and Getty
On Midwest and Exxon, on Shell and Pauley
Go everywhere, look everywhere, we're short of energy
Dig away, drill away, we're short—can't you see?

As dry leaves that before the wild hurricane fly . . .
He warned all energy was in short supply
Even the local "home-heating" by Fry!!
So out to the channel, the oilmen they flew
and met up with GOM a . . . creature from GOO
They tried Arabia and were told what to do . . .
Get out, get out!!! you Americans, you!
The little ole oilman with his seismology crew
Went back to the channel and roused GOO
A bundle of facts he had flung on his back
And he asked for a hearing to open his pack
His info how enlightening!, his data how true,
A shortage mean't darkness and cold winters too.
Transportation and industry would come to a halt,
And WHO, oh GOO, would be at fault??
A "lift the ban" decree he held high in his hand
For he knew our energy was in offshore sand
He still was not happy when they lifted the ban
For he knew our energy future lay
In new offshore play!!

Our energy is an oily and crude affair
and I wondered if people really did care . . .
Well, the oilmen were silent, but went straight to their maps
and filled in many offshore gaps
and pondering their data in a group they cried
WHY is new exploration denied?!!
They sprang to the forefront, to the public gave a whistle
and away the oilmen flew like the down of a thistle—
But I heard them exclaim ere they drove out of sight:

"HAPPY CRISIS TO ALL AND TO ALL A 'COLD NIGHT' "

—NANCY OLSEN

(Nancy is secretary to Bud Ogle of Argonaut O & G in Santa Barbara)

San Joaquin

In an effort to compete with the recent steady flow of newscasts and journalism about the energy crisis, the San Joaquin Geological Society has decided to do something about it by organizing a Speakers' Bureau. Volunteer speakers have agreed to speak on this subject and the following letter has been sent to about 100 clubs and organizations in Bakersfield and Kern County offering this service gratis. Ed Karp and Gordon Bell are organizers of this plan and have had excellent response from speakers for the idea and are now hoping for good response from the public. The letter follows:

Attention: Program Chairman . . .

The San Joaquin Geological Society is presenting at this time three of their member geologists who are available to speak at your local meeting or gatherings. Their talks will be on current and timely subjects. The present series of talks are designed to furnish in-depth information about various facets of the energy crisis.

The talks are geared for non-technical audiences and should be of interest to any adult group. There is no charge for these talks and the speakers have recently appeared before Kern County audiences.

1) Mr. Glenn C. Ferguson, president, Independent Oil and Gas Producers of California, will speak on the topic of "The Energy Crisis as Viewed by the Independent Oil Producer." Mr. Ferguson was appointed as an advisor to Energy Chief William E. Simon and has just returned from Washington. His talk will give an insight into the present thinking in Washington. Time: 30 minutes. No slides.

2) Mr. Wayne D. Estill, Vice-President of Exploration, American Pacific International, Inc. will speak on the subject "Energy—Crisis or Conspiracy?" This talk gives reasons for the shortages and what can be done about them. Time: 40 minutes. No slides.

3) Mr. Stanley E. Karp, Associate Professor, Bakersfield College, will speak on the subject "Energy—Who Needs It?" This talk also deals with some of the reasons for the energy shortage and is well illustrated by slides. Time: ½ hour to 1 hour.

For further information on these talks or to make reservations call Gordon Bell, day 324-6031, evenings 366-3890, or write San Joaquin Geological Society, P.O. Box 1056, Bakersfield, California 93302.

HAROLD SUGDEN

Coast

NO REPORT.

Sacramento

NO REPORT.

Los Angeles

We have now officially moved the LABGS luncheon meeting to the Taix Restaurant on Sunset Boulevard. Our second noon luncheon, on March 28, 1974 at the Taix Restaurant will feature Mr. W. E. Wade, Manager of Planning, Synthetic Crude and Minerals Division, Atlantic Richfield. The title of his talk will be "Supplemental Energy Sources." He will cover basic problems involved in the development of methods to process tar sands, oil shale and coal.

The most newsworthy item of interest to all Pacific Section members is the marriage of Marie Clark to Mason Hill. The newlyweds are living in Whittier, California. Their new phone number is (213) 696-3496.

The Pacific Section Annual Meeting of AAPG will be held April 24-28, 1974 at the Sheraton Hilton Hotel in San Diego. Because of the current fuel shortage, auto transportation from Los Angeles to San Diego may be difficult.

An inquiry is now being made to determine interest in chartering railroad transportation from Los Angeles to San Diego. The train schedule is as follows:

Leave L.A. for San Diego	Leave San Diego for L.A.
8:30 a.m.	7:00 a.m.
10:30 a.m.	1:00 p.m.
7:55 p.m.	4:30 p.m.

Bus transportation would be arranged between the San Diego depot and the hotel.
TOM REDIN

Pacific Section AAPG - SEPM - SEG MEETING

The 49th annual meeting is to be headquartered at the Sheraton Harbor Hotel, near the airport, in San Diego.

Registration will start at two p.m. on Wednesday, April 24, 1974 and a Shakedown Cruise—Ice Breaker Party is scheduled on a converted Coronado Ferry for that evening, April 24.

The Technical Program starts the morning of April 25 and on that day you may hear Rogers B. Morton, Secretary of Interior, plus a luncheon speech by Lt. Governor Edwin Reincke.

On Friday, April 26, additional Technical Papers including a Symposium on Baja California will be available for your enlightenment to-

gether with alumni luncheons and a Mexican Theme dinner-dance.

For the following weekend, Saturday and Sunday, April 27-28, a two day field trip will be provided for a maximum of 120 rugged geologists. This trip is to be by bus and will cover a substantial area in Baja California—south of Ensenada to El Rosario.

Fun and learning activities will be available to the ladies on Thursday and Friday. In addition to the hospitality room at the Sheraton, there will be a continental breakfast, an informative session on energy matters, and a shopping trip to Tijuana—plus the many other pleasant attractions of San Diego, ie: The Zoo, Harbor and Sea World.

CIRCUM-PACIFIC ENERGY AND MINERAL CONFERENCE

IT'S NOT TOO LATE to attend the first Circum-Pacific Energy and Mineral Resources Conference in Honolulu, Hawaii, August 26-30, 1974. Reservation forms to attend this conference are available in the February 1974 issue of *Geotimes*. If you do not have a copy of *Geotimes*, please contact the AAPG office, Box 979, Tulsa, Oklahoma 74101, for reservation forms.

AAPG members will be particularly interested in several important sessions. The General Session will feature addresses by such well known individuals as Steve Wakefield, John Winger, William Zarella, and John Moody. Sessions devoted entirely to hydrocarbons will feature detailed geological discussions on Indonesia, Thailand, Korea, New Zealand, and Japan. Other hydrocarbon sessions will examine Alaska, the Aleutian, Bering Sea Region, the British Columbia Pacific Continental Margin, and the Canadian Cordilleran Depositional Basins.

Geologists are interested in all forms of energy and minerals, and there will be two major sessions devoted to hydrogeology, three sessions devoted to minerals, one to geothermal, and one to coal. Speakers discussing these subjects will be widely known and respected and from all parts of the world.

As domestic production tends to decline, the less explored areas of the earth—particularly the Pacific—will become more important, and one can at this conference feed his intellectual curiosity while at the same time enjoy Hawaii in August.

MICHEL T. HALBOUTY
General Chairman

OFFSHORE TECHNOLOGY CONFERENCE

Technical problem solving in the nontechnical world will be one of the special concerns of the Sixth Annual Offshore Technology Conference, May 6-May 8, 1974, at the Astrohall in Houston, Texas.

A special session on liability of offshore operations will highlight the 200-paper technical program.

The Offshore Technology Conference, which was founded in 1968, is jointly sponsored by 11 international engineering and scientific societies and is recognized as the world's leading annual meeting on offshore technology.

Wave forces, pipeline laying and repair, underwater technology, drilling and support vessels, Arctic technology and offshore nuclear power plant technology are a sample of the topics to be presented in the 35-session technical program. Technical sessions will be conducted from 9:00-11:45 a.m. and 3:00-5:30 p.m. on Monday, May 6; from 9:30-11:45 a.m. and 2:30-5:00 p.m. on Tuesday, May 7; and from 9:30-11:45 a.m. and 2:00-4:30 p.m. on Wednesday, May 8.

A 2000-booth technical-educational exhibits display presented by 1200 of the world's leading offshore service and manufacturing companies will complement the 1974 OTC technical program. Exhibits will be open from 8:30 a.m.-6:00 p.m. on Monday and Tuesday, and from 8:30 a.m.-5:00 p.m. on Wednesday.

CANDIDATES FOR PACIFIC SECTION OFFICERS

Following is the report of the 1974 Nominations Committee:

For President

Bruce M. Barron, Oilwell Research
William J. Hunter, Thums Long
Beach

For Vice President

Ernest I. Rich, Stanford University
Donald L. Ziegler, Standard Oil Co.

For Secretary

Stanford Eschner, Occidental
Donald William Reynolds, Union

For Treasurer

Scott L. Knight, Texaco Inc.
John L. Livingston, Geo-Logic

Additional nominations may be made by written petition of twenty-five (25) or more members of the Pacific Section in good standing, received by the Secretary within two (2) weeks following date of this publication.

Northwest

Your Northwest correspondent of last year thought he had retired from that duty. However, since he has had several requests for news from these parts and about the Northwest Geological Society, perhaps he could squeeze out one more report.

The Northwest Geological Society as the geological organization of the Northwest is having its problems. Over the past few years with the loss of so many oil geologists and the increased interest in other facets of geology such as urban, engineering, and environmental geology, new organizations have sprung up and the geological fraternity has become fragmented. Therefore, there seems to be less interest in meetings for the group as a whole. Also, with less attendance, costs of meetings have become a problem. I guess we could say we certainly need you "oil types" back.

The last meeting of the Organization was held in November at which time Dr. William Campbell of the U.S. Geological Survey Ice Dynamics Project gave an enlightening slide talk on Arctic Sea ice movement. He showed how equipment is used to observe ice motion and discussed ice-ocean-air interaction and the potential effects on climate. Although the next meeting has not yet been announced it is hoped that one will be scheduled for either February or March.

It is rare, indeed, these days to have the opportunity to welcome new resident oil geologists to the Northwest. We are pleased to announce that John L. Lookingbill has opened an exploration

office for El Paso Products Company in downtown Olympia. We are looking forward to visits and discussions with John. Perhaps John's arrival is the beginning of a new trend toward the opening of more exploration offices in the Northwest.

WELDON W. RAU

OFFSHORE DRILLING

It is my professional opinion, after a rather extensive analysis of the problems and benefits related to offshore drilling, that with rigid controls, properly administered and enforced the petroleum resources of the offshore area(s) can safely be extracted. Inasmuch as natural oil seeps have and will continue to flow it is realistic to conclude that the rate of natural seepage can be safely reduced by extracting oil from the source area (reservoir rock) and, thus, reducing both the pressure and quantity of oil available to the natural seeps. It must be understood that a thorough geologic and engineering analysis must be prepared for each proposed well site. It is recommended that a well qualified Technical Review Board comprised of experts in the disciplines related to engineering geology, foundation engineering, mechanical engineering, petroleum engineering, and petroleum geology, be established to review each application. These professional experts could be solicited from their respective professional societies (AEG, ASCE, ASME, SPE, and AAPG) and appointed by the State Lands Commission. This Technical Review Board would not replace the staff personnel of the State Lands Commission, but would only act in an advisory capacity.

In addition, to preclude such fail-

ures as the unfortunate, *but avoidable* Santa Barbara Oil Spill, it is recommended that an analysis, review and certification of safety and compliance be prepared by an Engineering Geologist and Foundation Engineer for every facility (drilling platform, fixed pipe, et cetera) which is to be constructed and/or attached to the rock or sediment of the sea floor. This should include analysis related to seismic shaking, fault rupture, tsunami, submarine landslide sediment creep, turbidity currents, et cetera.

With these provisions, it is my professional opinion that the offshore oil can be safely extracted and that, if desired, the natural oil seeps can be reduced in magnitude.

JAMES E. SLOSSON
Acting State Geologist

Employment Opportunities

The National AAPG - SEPM Meeting will be held in San Antonio, Texas, April 1-3, 1974. As in previous years, the services of an Employment Interviews Committee will be available in the Convention Headquarters to arrange interviews between applicants and prospective employers.

The committee is striving to obtain a maximum number of employment opportunities this year, and prospective applicants can be assured that their applications will be processed efficiently and discreetly. This service is for the experienced geologist as well as the student.

C. R. NOLL, JR., *Chairman*
Employment Interviews Committee
Davis Oil Company
747 United Gas Building
Houston, Texas 77002

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

VOLUME 28

APRIL, 1974

NUMBER 4

ANNUAL FALL SEPM FIELD TRIP

October 18-19

This year's fall field trip will start in Fresno, California on Friday evening, October 18th, with a talk on the Tectonic and Sedimentary Evolution of the Late Mesozoic-Paleogene Margin of Central California by J. C. Ingle and W. R. Dickinson (Stanford University).

The field trip will follow on Saturday, October 19th. The following list of articles are tentative contributions as of March 9th that will be included in the guidebook along with a road log, maps and cross-sections.

Lower Tertiary Stratigraphy and Depositional Environment in the Cantua Canyon Area: T. H. Nilsen and T. W. Dibblee Jr. (USGS)

Paleogene Paleogeography of the Cuyama Valley Region: D. H. Chip-ping (Cal. Poly. San Luis Obispo)

Geologic Relationships of the Big Blue Sandstone: T. A. L. Casey (Stanford)

Comparison of the German Rancho and Cantua Turbidite Sections: S. A. Graham (Stanford)

Late Cretaceous - Eocene Paleobathymetry and Sedimentary Events, Laguna Seca Hills Section: J. R. Hankey and J. C. Ingle, Jr. (Stanford)

Oligocene Lineages of Siphogenerina Foraminifera, West Side San Joaquin Valley, California: Ann Tipton (UCSB)

Taxonomy and Stratigraphic Significance of *Globanomalina indiscriminata* (Mallory, 1959): C. R. McKeel and R. W. Morin

Paleocene - Eocene Planktonic Biostratigraphy from California and a Correlation to the West Coast Micofaunal Stages: R. W. Schmidt (Geol. Inst. Utrecht)

Outcrop Studies of the Tumey Formation on Monocline Ridge, Fresno County, California: F. J. Phillips, Ann Tipton, and R. Wathins (UCB and UCSB)

Any additional contributions concerning the geology and paleontology will

be welcomed. Due date for manuscripts will be June 1, 1974. Please contact J. M. Gibson, Texaco Inc., 3550 Wilshire Blvd., Suite 1100, Los Angeles, California 90010 concerning questions about the field trip.

AAPG - SEPM - SEG CONVENTION—San Diego

April 24-27

Although we are not privy to the subject matter to be covered by the following speakers, it seems abundantly evident that opinions of prime concern to Petroleum Geologists will be expressed and perhaps discussed.

In the matter of energy availability—THE BUCK STARTS HERE—with the GEOLOGIST!!!

Dr. Dan Busch (President of AAPG) will speak and it is expected that he, and perhaps some of the other distinguished geologists involved, will elaborate on the report that recently appeared in the *Los Angeles Times* (Feb. 18, 1974) wherein a 2 billion dollar exploration program (to be supervised by USGS) was recommended to evaluate oil resources in unexplored areas of the United States.

Rogers B. Morton (Secretary of Interior) will speak and we should learn, at least his attitudes toward exploration in the U.S. — if it is to be encouraged, by what means?

Ed Reineke (Lt. Governor, Member of State Lands Commission and Chairman of State Energy Council) will be the luncheon speaker and he, together with Wes Bruer, who will speak earlier, should express the governor's attitude toward exploration for, and development of, energy sources in the State of California.

J. E. Bodovitz (Executive Director of California Coastal Commission) will speak. Perhaps we can learn something of the attitude of this body relative to the implementation of the geologists' efforts to find new oil, gas or steam.

It all should be interesting, informative, and top priority to the professional geologist.

EXECUTIVE COMMITTEE MEETING

Committee Reports

1974 Convention—San Diego

John Minch, Chairman, reported the pre-registration mailer will be in the mail by March 6, 1974. The Convention program will not be included, but will be mailed separately on about March 13, 1974. The mailers will go to all Pacific Section members (1300 plus). In order to insure good attendance it was suggested to Minch mailers be sent to other West Coast geological societies whose members may not belong to the Pacific Section and to those geologists teaching in Universities, Colleges, and Junior Colleges on the West Coast.

It was reported the *San Diego Union* is giving the Convention good publicity. *Munger, Geotimes* and other newspapers throughout the West Coast are to be contacted for publicity. A complete program will be published in the next NEWSLETTER.

Joe Le Conte reported \$1,825 has been received for advertising in the Convention Program.

Nominating Committee

Art Spaulding reported the following selected by the Nominations Committee to run for 1974-1975 Pacific Section offices:

For President

Bruce Barron, Oilwell Research
William J. Hunter, THUMS

For Vice-President

Ernest I. Rich, Stanford University
Donald L. Ziegler, Standard Oil Company

For Secretary

Stanford Eschner, Occidental Petroleum
Donald Reynolds, Union Oil Co.

For Treasurer

Scott L. Knight, Texaco
John L. Livingston, Geologic Engineering

A motion was made and seconded to accept the names submitted by the Nominating Committee.

(continued on page 2)

EXECUTIVE COMMITTEE ...

(from page 1)

Spring Picnic and Field Trip

Doug Traxler, Chairman, reported the annual picnic will be held June 7, 1974, at Brett Park (Torrey Canyon) and Dave Totten will handle the barbecuing chores. As of this date no courses are tied up, but the golf tournament will probably be held at either Elkins Ranch, Valencia or Santa Paula. The field trip will cover the Eocene section of the San Emigdio Range. Attempts are being made to get Tenneco personnel to handle the field trip.

No costs for picnic, golf, or field trip were available.

Transportation—1974 Convention

Dave Pfeiffer — checking on possibility of charter flights from San Francisco to San Diego.

Art Spaulding — will mail out flier to those Pacific Section members in the Los Angeles Basin detailing train schedules from Los Angeles to San Diego. If enough people want to travel by train, it may be possible to reserve a block of seats or an entire car.

Jim O'Neill — made preliminary contact with Greyhound regarding chartering buses from Bakersfield to San Diego.

Publications

Don Hallinger submitted a closing financial statement for 1973 and inventory of publications on hand (copy attached). Don explained how Publications were funded and stated that an infusion of money would be needed to finance publication of the 1974 Convention Guide Book.

Hallinger reported the proposed publication by the Northern California Geological Society, Geological Literature on the San Joaquin Valley of California, will cost \$2,031 to print 500 copies. The NCGS proposes the Pacific Section and NCGS share publishing costs 50-50. The Pacific Section to recover its costs, after handling, out of 75% of the proceeds. After recovering its costs the NCGS to receive 100% of net proceeds until their costs recovered. Further net proceeds then to be split 50-50.

Hallinger moved we accept offer from NCGS, motion seconded and approved by Executive Committee.

Kleinpell Study — In 1973 the Pacific Section invested \$2,415.86 in this project. This represents 75% of monies spent. The total monies spent by the Pacific Section in 1974, excluding SEPM, is \$152.74.

Legislative Committee

Dennis Allen, chairman, reported on the following three bills pending in Sacramento:

(1) SB 1671, raises frivolous malpractice penalties against architects, engineers, etc., to \$2500.

(2) SB 1729, establishes a Seismic Safety Commission which will report to Governor.

(3) AB 1974, establishes Land Use Commission and abolishes State Lands Commission.

President Hall suggested the text of all impending legislation relating to geologists be published in the NEWSLETTER.

Core Storage Committee

Jim Weddle, chairman, reported California State College, Bakersfield, has verbally accepted the idea of a core depository and will provide space for a building. A formal proposal will be submitted by Weddle for approval by the College Trustees. Mobil Oil Corporation will donate a 6000 square foot building, which has been inspected and accepted by the College, and are currently getting costs to (1) install a concrete pad for the foundation and (2) move the building.

Weddle proposes an annual budget of \$15,000 which will provide for a full time curator plus some part time student help. The Division of Oil and Gas has agreed to contribute \$5,000 per year for three years to this project. Other companies, organizations, and agencies are currently being solicited to help meet the minimum budget requirements.

National AAPG

John Kilkenny, Advisory Council, reported on the recent Southwest Section, AAPG meeting held in El Paso, Texas and that Dan Bush, President, AAPG, will probably call for a Friday morning, April 26, breakfast meeting with Pacific Section delegates.

Continental Airlines has a special flight for the National AAPG Convention to be held in San Antonio, Texas, from April 1-3, 1974.

Affiliated Society Reports

L. A. Basin Geological Society — President, Lou Heintz, was congratulated by President Hall on his recent election. Heintz reported on (1) the Society's Continuing Education program and (2) that a dinner-dance will be held in October or November in lieu of the annual Christmas dance and (3) a fall field trip will be held.

Coast Geological Society — Roger Hubbell, President, reported the Corps of Engineers proposes to cement the Santa Paula Creek channel and cover the turbidite sedimentary structures exposed in the Pliocene. The Society plans to appeal to the Corps to leave some portion of the channel exposed so future geology students can observe these textbooklike examples.

SEPM

Harry TerBest, Vice President, reported their program at the 1974 Convention will have 13 papers and will be published prior to the meeting. The next field trip will be to Panoche Creek, October 18 and 19, 1974.

Correspondence and Communications

Tom Wright, President Northern California Geological Society, indicated they would like to host the annual Pacific Section meeting in 1976 and the National AAPG in 1981.

Geological Coordinating Council

Doug Traxler reported he sent copy of last meeting's minutes to NEWSLETTER. The next meeting is scheduled for March 15, 1974, at the Los Angeles Petroleum Club.

Next Executive Committee Meeting

The next meeting will be a business meeting and will be held on Friday, April 26, 1974, at 4:50 p.m. in the Convention Hall of the Sheraton Harbour Island Hotel following presentation of the last Convention paper.

Following adjournment a tour of the Queen Mary was made to inspect facilities for consideration as possible site for the 1975 Pacific Section Convention.

Northern California

The NCGS held its First Annual Dinner Meeting and Lecture March 6 at the California Academy of Science in Golden Gate Park. For the capacity crowd of 110 geologists, wives, and friends it was an unusual and enjoyable evening — cocktails with the crocodiles, dinner in the hall of fishes, followed by an interesting talk by Gordon Oakeshot entitled "California Landscapes." We wish to thank Gordon for contributing an evening and a valuable tank of gas coming over from Sacramento, and also to thank the academy for making their facilities available to us.

In June, the Society will be welcoming BP Alaska who is moving corporate headquarters from New York to 100 Pine Street, San Francisco. Around 75 geologists and geophysicists are rumored to be involved.

Personals — Bill Welch has transferred to Amoseas in Madrid; Jim Bloom returns to San Francisco from Malagasy; Gregg Calkins, former SOCO softball star, was named Real Estate Salesman of the Month for Contra Costa County!

DAVE BUSHNELL

Papers were solicited recently for a guidebook to the Paleogene of the Cantua Creek area, San Joaquin Valley, for our annual Pacific Section SEPM fall field trip next October. Now the Pacific Section's Paleogene Symposium of 1975 is being organized, and we want to eliminate any confusion of prospective authors as to the relative scopes of these two important events focusing on the Paleogene.

As recently announced, the annual fall field trip will be held on October 18-19 of this year, in the Cantua Creek area. The guidebook will include papers dealing with aspects of the Paleogene of that *local area* and elsewhere *along the West Side of the San Joaquin Valley*.

Papers involving the Paleogene of other areas should be reserved for the Paleogene Symposium, now in the early planning stages and scheduled for Spring, 1975. The symposium volume is expected to include papers spanning every aspect of the West Coast Paleogene-vertebrate and invertebrate biostratigraphy, correlations with other regions, paleogeography, tectonics, etc.

Papers dealing with the Paleogene of the San Joaquin Valley that were not ready for publication in the Fall 1974 guidebook will also be considered for the symposium volume.

We hope to compile as complete a compendium as possible of current research on the West Coast Paleogene, so authors are encouraged to begin planning their potential contributions now.

Further announcements will be forthcoming as the planning of the Symposium progresses.

Authors of papers for the fall guidebook should note the deadline schedule and format specifications.

We believe the guidebook and the symposium volume will both be outstanding contributions to our knowledge of lower Tertiary geologic history, and urge your contributions and attendance at the meetings.

JAMES M. GIBSON
Coordinator, Guidebook, 1974
Texaco Incorporated
3550 Wilshire Blvd.
Los Angeles, California 90010

DONALD W. WEAVER
Coordinator, Paleogene
Symposium, 1975
U.C., Santa Barbara
Santa Barbara, California 93106

Los Angeles

After pushing to move the Los Angeles Basin Geological Society to Les Freres Taix Restaurant, I missed the very first meeting. Our May meeting will feature Dr. Donn Gorsline of USC presenting a timely paper entitled "Recent Basin Studies off Southern California." This will be a noon meeting on *Thursday*, May 23rd at the Taix Restaurant on Sunset Boulevard. Disregard the future calendar items for April. Dr. Martin Stout will be rescheduled for later this year.

There will be no meeting of the Los Angeles Basin Geological Society during the month of April.
TOM W. REDIN

FOUR CORNERS GEOLOGICAL SOCIETY 1974 RIVER FIELD TRIP DESOLATION-GRAY CANYONS May 13-17

The Four Corners Geological Society will again sponsor a river field trip in 1974 in Desolation and Gray canyons along the Green River in northern Utah. The Green River carves a cross-section through the southern flank of the Uinta Basin between the launching site at Sand Wash, Utah and Green River, Utah. About 15,000 feet of sedimentary rocks are exposed, ranging in age from Late Cretaceous to late Eocene, exhibiting classic sedimentary structures of fluvial, lacustrine, marginal marine, and deep marine origin. This canyon is unsurpassed for its display of classic sedimentary structures. The "Mohogany Ledge" oil shale and the producing horizons in the Uinta Basin oil fields will be visited on the field trip.

There are 66 rapids, rated from one to six on a one-to-10 scale on this section of the river.

The trip starts at the Green River, Utah airport, where you may leave your cars and take a scenic flight through the canyons to Sand Wash on the morning of the first day. You will be returned to your cars on the afternoon of the fifth day to complete the tour. The cost of the trip is \$150.00, including the flight through the canyons, all meals while on the river, and the river log-guidebook prepared by the Powell Society Ltd. and Felix E. Mutschler. The physical accommodations will again be furnished by Canon Tours, Inc., caterers to the 1973 Four Corners Geological Society San Juan River field trip.

For reservations or further information contact:

D. L. "Don" Baars,
Field Trip Chairman
Four Corners Geological Society
P.O. Box 1501
Durango, Colorado 81301
Telephone (303) 2477-1044

Coast

On February 28, 1974, Charles Lee, Continental Oil Co., presented a well-attended talk to the Coast Geological Society in Ventura, California, entitled, "*Overpressure in Cretaceous Forbes Formation, Northern Sacramento Basin, California—Significance and Detection.*" The talk emphasized:

1. The Forbes formation in the northern Sacramento basin is nearly universally overpressured relative to a normal hydrostatic gradient of .450 PSI/ft.

2. *Commercial* Forbes gas production appears to have an affinity for a pressure regime of .500 to .700 PSI/ft. fluid pressure gradient.

3. Forbes overpressure is not depth-related. Superpressure (greater than .700 PSI/ft.) has been observed as shallow as 3,600'. Depths as great as 8,700' have not encountered superpressure.

4. Superpressure trends can be mapped and may indicate areas of possible trap development. Moderately overpressured areas adjacent to superpressure trends appear to be highly prospective.

5. Depth to superpressure is a mappable parameter. Such mapping is an aid to effective drilling program planning and upgrading of prospective Forbes gas fairways.

6. Tools useful in Forbes exploration and pressure determinates are E-logs, DST data, production data and mud weight data.

In the final analysis it is Lee's opinion that the detectable zone of pressure transition derived from shale resistivity plots occurs at about .700 PSI/ft. FPG. This point (Rsh PT and/or .700 PSI/ft. FPG) represents the "effective basement" of *commercial* Forbes gas production in the northern Sacramento basin. Mapping of this "effective basement" point at least allows determination of non-prospective fairways and in some cases may define specific barrier trends against which gas may be trapped.

Lee believes that anytime mud weights in excess of 110#/cu. ft. are *required* to drill in the Forbes sequence the project should be re-evaluated, since 110#/cu. ft. mud indicates superpressure.
ROGER HUBBELL

San Diego Convention Schedule

Thursday, April 25—A. M. Session

ENERGY

- 9:00 Welcoming Address — Search for Oil Resources
Daniel A. Busch, President
American Association of Petroleum Geologists
- 10:00 The Role of the California Coastal Zone Conservation Commission in the California Energy Situation
Joseph E. Bodovitz, Executive Director
California Coastal Zone Conservation Commission
- 10:30 The New Role of the U.S. Geological Survey in the Energy Picture
Charles Masters, Energy Director
U.S. Geological Survey
- 11:00 Rogers C. B. Morton
Secretary of the Interior
- Luncheon
Edwin Reineke
Lt. Governor, State of California

Thursday, April 25—P. M. Session

ENERGY

- 2:30 California Energy Supply and Demand
Wes Brewer, Executive Director
California Energy Planning Council
- 3:00 The Geology Element in the California Coastal Zone Conservation Plan
William A. Adent, Chief Geologist
California State Lands Division of State Lands Commission
- 3:30 The Role of the State in Regulating Oil and Gas Operations
John Mathews
Division of Oil and Gas, State of California
- 4:00 1975 Southern California OCS Sale
Art Spaulding
Western Oil and Gas Association
- 4:20 Shale Oil Recovery by the In-Situ Method
Randall Chew
Garret Research and Development
- 4:40 Deep Drilling in California
Don Taylor
Tenneco Oil Co.

SEG

Topic: **Bright Spots and Amplitude Information**

Chairman: George G. Shor, Jr., Scripps Institution of Oceanography

- 2:30 1. Carl Savit, Western Geophysical Co., "Bright Spot in the Energy Picture."
- 3:15 2. Robert Sheriff, Chevron Oil Co., "Factors Affecting Amplitudes — A Review of Physical Principles."
- 4:00 3. Miller Quarles, Jr., Petty-Ray Geophysical, Inc.,

"Correlation of Extracted Seismic Properties (ESP) with Known Oil and Gas Deposits."

- 4:45 4. N. A. Anstey, Seiscom Delta Inc., "Color Displays in the Direct and Indirect Location of Hydrocarbons."

Friday, April 26—A. M. Session

Symposium on Baja California

- 9:00 What Does Prebatholith Mean to the Petroleum Geologists in Peninsular California
Gastil, R. G.; Krummenacher, D.; Minch, J. A.
- 9:25 Structure and Stratigraphy of the Northern Vizcaino Peninsula, Territory of Baja California
Robinson, J.
- 9:50 Large Offshore Basins in the Southern California-Baja California Borderland
Minch, J. A.; James, A. H.
- 10:15 Changing Styles of Mesozoic-Cenozoic Tectonics and Sedimentation in Baja California Sur
James, A. H.; Minch, J. A.; Quiett, S.
- 10:40 Geology of the Pacific Slope, Bahia de Santa Rosalia to Mission San Borja, Baja California, Mexico
Fife, D. L.
- 11:05 The Miocene Marine Basins of the Gulf of California
Gastil, R. G.; Krummenacher, D.; Jensky, W.; Minch, J. A.
- 11:30 Mesozoic and Cenozoic Stratigraphy of the Asuncion Area, Baja California, Sur
Troughton, G.

SEG

Topic: **Seismic Methods**

Chairman: Lane Howell, Tenneco, Incorporated

- 9:00 1. Peter Fischer, Northridge State College, "Natural Seeps Along the Southern California Shelf."
- 9:35 2. Edwin L. Hamilton, Naval Undersea Center, "Prediction of Velocity Gradients in Marine Sediments."
- 10:10 3. J. R. Fort, J. A. Westphal, C. H. Dix, L. A. Martin, and S. J. Allen, Geophysical Systems Corp., "A New Multichannel Data Acquisition and Processing System."
- 10:45 4. William B. Huckabay, Consultant, "On-line Digital Seismic Profiling — Bay of Bengal."
- 11:10 5. A. Stoupnitzky, Compagnie Generale de Geophysique, "Wide Line Profiling in Marine Operations."

Friday, April 26—9:00 A. M. to 12:00 Noon

SEPM

1. James M. Gibson — Campanian-Maastrichtian Foraminifera and Nannoplankton Biostratigraphy, Jalama

(continued on page 7)

PROPOSED CONSTITUTIONAL AMENDMENTS

The following Constitutional amendments have been proposed by Stan Eschner under the direction of the Planning and Organization Committee. Underlined portions reflect proposed changes. By-Laws have been added to clarify the duties of Standing Committees. These proposed amendments will be voted on during the business meeting at the San Diego Convention on Friday, April 26, 5:00 p.m.

CONSTITUTION PACIFIC SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Adopted: September 1924 • Last Amended: September 1973

ARTICLE I

Name

This organization whose area of interest comprises the Pacific Coastal Region, shall be known as "Pacific Section of the American Association of Petroleum Geologists" and is hereinafter referred to as "this Section."

ARTICLE II

Object

SECTION 1 The object of this Section shall be to provide for discussion of subjects and problems coming within the scope of the profession and by such intercourse, to promote the advancement and aims of The American Association of Petroleum Geologists as set forth in its Constitution, by-laws and code of ethics.

SECTION 2 The Pacific Section is a non-profit organization, and no portion of the financial assets inures to the benefit of any private individual or member.

ARTICLE III

Membership

SECTION 1 A member, in any classification, of the American Association of Petroleum Geologists in good standing shall be eligible for membership in this Section.

SECTION 2 Annual payment of the dues of this Section by any person qualified above shall be a declaration of Active membership in this Section.

The Executive Committee may honor the accomplishments of one or more members each year by designating "Honorary Life Members." Honorary Life Members shall be exempt from all future dues.

SECTION 3 Other persons not members of The American Association of Petroleum Geologists who are in the activities of this Section, may subscribe to the publication of the Section "Pacific Petroleum Geologist

Newsletter" subject to the approval of the Executive Committee. Non-member subscribers shall not have the right to vote or hold office but may otherwise participate in all activities of this Section.

ARTICLE IV

Officers

SECTION 1 The officers of this Section shall be a President, a Vice-President, a President-Elect, a Secretary and a Treasurer. The duties of these officers shall be those customary for their respective offices. They shall assume these duties at the Pacific Section meeting next following their election as hereinafter provided. Their term of office shall be for one (1) year, except for the Treasurer, whose term of office shall be for two (2) years, or until their respective successors are elected. During the absence of the President, the Vice-President shall assume his duties. In the event of the death or resignation of the President, the Vice-President shall succeed to the office and title of President. Should the Vice-President be unable to serve in this capacity, the duties and title of President shall be assumed by (First) the Secretary or (Second) the Treasurer. In the event any officer, other than the President, shall be unable to complete his term, the Executive Committee shall appoint a member to fill the vacancy and assume the title of President-Elect, Vice-President, Secretary or Treasurer. In making such an appointment, the Executive Committee shall give due consideration to appointing a member from the slate of nominees at the last previous election.

SECTION 2 There shall be an Executive Committee consisting of the President, Vice-President, President-Elect, Secretary, Treasurer, Editor of the "Pacific Petroleum Geologist News-

letter" and one Representative each selected by such other cooperating geological societies (including the Coast Geological Society and the San Joaquin Geological Society) as are at any time approved by the then existing Executive Committee.

ARTICLE V

Funds

SECTION 1 The Executive Committee shall review the financial position of the Section and have a current financial statement available at each annual business meeting. Annual dues of the Section shall be payable in advance in an amount established by the membership at the annual business meeting. The Executive Committee shall not have authority to levy assessments against the membership and shall not have the authority to increase annual dues.

SECTION 2 The funds of this Section shall be deposited to the credit of Pacific Section of The American Association of Petroleum Geologists in any federally insured depository selected by the Treasurer but not to exceed the limit insured by the Federal Deposit Insurance Corporation. Whenever necessary, the President shall certify to the authority of the Treasurer in administering such account by providing the depository bank with a notice of the Treasurer's election and with a true copy of this Constitution.

The Treasurer shall have authority to issue checks against the bank account so established, on his sole signature, but in the event of his absence or incapacity to act due either to sickness or death, withdrawals or payments by check may be made on the signature of the President during the continuance or the absence or incapacity of the Treasurer, in which event the identity and authority of the President and the circumstances re-

(continued on next page)

lating to the absence or incapacity of the Treasurer shall be certified to by the Executive Committee if so required by the depository.

ARTICLE VI Meetings

SECTION 1 Pacific Section meetings shall be held annually or at other times on call of the President.

SECTION 2 The time and place of Pacific Section Business Meeting shall be determined by the Executive Committee.

ARTICLE VII Elections

SECTION 1 The President of the Pacific Section of The American Association of Petroleum Geologists, with the approval of the Executive Committee, shall appoint a nominating committee at least three (3) months prior to the business meeting of the Pacific Section, consisting of five (5) members, two (2) of whom shall be past officers of the Pacific Section.

The nominating committee shall, each year, select two (2) candidates for each of the following offices: President-Elect, Vice-President and Secretary, and every other year shall select two (2) candidates for the office of Treasurer. The slate of the candidates shall be announced in the "Pacific Petroleum Geologist Newsletter" at least five (5) weeks prior to the election. Additional nominations may be made by written petition of twenty-five (25) or more members of the Pacific Section in good standing, received by the Secretary within two (2) weeks following the publication of the nominating committee slate of candidates. The Executive Committee shall have the authority to name an additional nominee in case of necessity, to assure two candidates for each office. Voting shall be by mailed ballot. The Secretary shall set a date for counting ballots and shall mail ballots to all members not less than three (3) weeks prior to this date.

SECTION 2 In matters pertaining solely to the business of this Section, all active members of the Section may vote. In matters pertaining to the official business and the selection of business representatives or other officers of The American Association of Petroleum Geologists only active members of the Association shall be qualified to vote.

SECTION 3 This Constitution may be amended by a mail ballot. Ballots concerning constitutional amendments

shall be mailed upon the authority of the Executive Committee or upon receipt by the Secretary of a Petition for Amendment signed by fifty (50) or more members in good standing. A two-thirds majority of the ballots returned within three (3) weeks following mailing to the membership shall be required to pass any amendment.

BY-LAWS

ARTICLE I Committees

SECTION 1 Standing Committees

The Pacific Section of The American Association of Petroleum Geologists shall establish and maintain the following standing committees:

- a. Committee on Finance
- b. Committee on Membership
- c. Committee on Planning and Organization
- d. Committee on Legislation
- e. Committee on Publications
- f. Committee on Directories
- g. Committee on Fall Field Trip
- h. Committee on Spring Picnic
- i. Committee on Convention Advisory.

SECTION 2 Appointments and Tenure

The President shall appoint all committee chairmen and co-chairmen and fill vacancies whenever they occur. The committee chairmen or co-chairmen shall appoint all vice-chairmen and committeemen for their respective committees. The Executive Committee may remove any committee chairmen or co-chairmen. The chairmen and co-chairmen may remove any vice-chairmen or member of their committee. The term of office of a member of a standing committee shall be one (1) year. Chairmen may succeed themselves from year to year if reappointed by each succeeding President. Committee members shall be active members and non-member subscribers of the Pacific Section.

SECTION 3 Committee on Finance

The primary function of the Committee on Finance shall be to prepare an annual budget for approval by the Executive Committee. The Treasurer shall serve as an ex officio member and no other member of the Executive Committee shall serve as a member of the Finance Committee.

SECTION 4 Committee on Membership

The primary function of the Committee on Membership shall be to encourage applications from qualified geologists for membership and to review and act upon such applications

on behalf of and with the approval of the Executive Committee.

SECTION 5 Committee on Planning and Organization

The Committee on Planning and Organization shall be comprised of past Presidents of the Pacific Section, that can participate. Their primary function shall be to assist the President in long-range goals and objectives of the society as well as in specific problems that may require their backgrounds.

SECTION 6 Committee on Legislation

The primary function of the Committee on Legislation shall be to advise of Federal, State and local legislation that affects the profession.

SECTION 7 Committee on Publications

The primary function of the Committee on Publications shall be to assist in securing material for publication in the "Pacific Petroleum Geologist Newsletter." The Editor of the Newsletter shall serve as ex officio member and no other member of the Executive Committee shall serve as a member of the Committee on Publications.

SECTION 8 Committee on Directories

The primary function of the Committee on Directories shall be to annually update the Pacific Section of The American Association of Petroleum Geologists Membership Roster. Compilation of the directory shall be coordinated with that of the Society of Exploration Geophysicists and the Society of Economic Paleontologists and Mineralogists and shall be formally published as mutually agreed upon.

SECTION 9 Committee on Fall Field Trip

The primary function of the Committee on Fall Field Trip shall be to plan a fall field trip, and following Executive Committee approval, program and carry out this activity.

SECTION 10 Committee on Spring Picnic

The primary function of the Committee on Spring Picnic shall be to plan a spring picnic, and following Executive Committee approval, program and carry out this activity.

SECTION 11 Committee on Conventions

The primary function of the Committee on Conventions shall be to submit a convention plan, and following Executive Committee approval, program and carry out this activity.

(from page 4)

Formation, Western Santa Ynez Mountains, Santa Barbara County, California

2. Keith D. Berry — Mesozoic Foraminiferal Zonation, Turonian to Tithonian Stages, Pacific Coast Provinces
3. Maurice Kalisky — Upper Cretaceous Coccolith Stratigraphy and Correlation in the Sacramento Valley
4. David K. Totten, Jr. — The Cretaceous Nannoflora of the Santa Ana Mountains
5. Emile A. Pessagno, Jr. — Radiolarian Biostratigraphy of the Upper Cretaceous Portion of the Great Valley Sequence
6. Virgil D. Wiggins — Fossil Dinoflagellate Assemblage from the Upper Cretaceous, Kaguyak Formation, Kamishak Hills, Alaska Peninsula

Lunch

Friday, April 26—P. M. Session

AAPG

- 2:30 Evidence for Late Quaternary (Holocene?) Structural Growth, Southern California Shelf
Fisher, P. J.; Berry, R.; Lee, C.
- 2:55 Emplacement of Asphalt at Rancho La Brea, Calif.
Maloney, N. J.
- 3:20 Depositional Environments and Paleogeography of the San Onofre Breccia, Southern California
Stuart, C. J.
- 3:45 Petroleum Prospects in Thick, Late Cenozoic Strata Overlying and Flanking the Aleutian Ridge
Scholl, D. W.; Marlow, M. S.; Buffington, E. C.
- 4:10 Large Sedimentary Basins in the Bering Sea Shelf Area
Marlow, M. S.; Scholl, D. W.
- 4:30 Tectonics and the Origin and Dispersal of Terrestrial Molluscs
Bowersox, J. R.
- 5:00 AAPG Business Meeting

SEG

Topic: **Non-seismic Methods**

Chairman: Edwin L. Hamilton, Naval Undersea Center

- 2:30 1. LeRoy Dorman, Scripps Inst. of Oceanography, "Fracture Zones, the Gravitations Edge Effect, and the Inverse Potential Problem."
- 3:05 2. Robert Parker, Inst. of Geophysics and Planetary Physics, UCSD, "Gravity Interpretation Using the Theory of Ideal Bodies."
- 3:40 3. William C. Kellogg, Kellogg Exploration Co., "Calculation of Airborne Radioactivity Survey Responses: Theory, Method and Field Test."
- 4:15 4. Thomas Henyey and Ta-liang Teng, University of Southern California, "Seismicity Studies in the Los Angeles Basin."
- 4:50 5. D. T. Hodder, L. V. Lewis, Geosource International, and R. Gelnet, U.S. Army Corps of Engineers, "A Comparison of Side-Looking Radar and Enhanced ERTS-1 Satellite Imagery for Tectonic Mapping of the Carmel Basin in the California Coast Ranges."

Friday, April 26—2 P. M. to Close of Session

SEPM

7. Michael A. Murphy — Ammonite Biostratigraphy of the Lower Chickabally Member of the Budden Canyon Formation (Lower Cretaceous), Northern California
8. Thomas G. Hill — Albian Mollusca (Gastropoda and Bivalvia) from the Ono Quadrangle, Shasta County, California
9. Michael A. Murphy and Thomas G. Hill — Biostratigraphy of the Upper Chickabally Mudstone Member of the Budden Canyon Formation (Cretaceous), near Ono, Shasta County, California
10. Walt Wornardt — World-wide Cretaceous Diatom Correlations
11. Robert G. Douglas — Cretaceous Marine Paleotemperatures in the Pacific
12. David G. Howell — Eocene Paleogeography of Southern California and the San Andreas Fault System

Friends and associates were saddened by the sudden heart attack and death of Thomas John Fitzgerald on November 20, 1973. Tom was a consulting geologist and engineer in Bakersfield, California, where he had lived since 1936.

He started his professional career as a geophysicist for Amerada in 1934, leaving them about three years later to join the staff of Richfield Oil Company in Bakersfield as a geologist. He later was employed by Oceanic Oil Company as vice president in charge of exploration and production. In 1950 Tom opened a consulting office in Bakersfield, specializing in petroleum geology and engineering, in which capacity he was active up to the day of his death. Most of his work was in the Great Valley Province of California. His talent for integrating geology and



Thomas John Fitzgerald
1903-1973

field engineering led to the discovery and development of a number of oil and gas fields. Tom had a tremendous working knowledge which he was always willing to share with others.

He was a founder and past president of the Bakersfield Petroleum Club, which will soon open a Fitzgerald Room in his honor. He was also a member of Stockdale Country Club as well as his professional societies, AAPG, API and AIME.

Tom is survived by his widow, Esther, and their two sons Tom Jr., and David; three grandchildren and two sisters. He will live longest in the memory of his friends for his outgoing personality, his humor, affability and his willingness to help others. He will be sorely missed.

MIGUEL deLAVEAGA

Pacific Section

PACIFIC SECTION CANDIDATES

It is time again to choose officers for the Pacific Section. Art Spaulding and his committee have come up with another slate of top candidates.

For President



BRUCE M. BARRON
Oilwell Research

Bruce joined the industry following graduation from UCLA in 1953, and has been an active member of the AAPG since 1955. Serving on various committees for almost 20 years, he is currently Program Editor for the Convention.

* * *

For President



WILLIAM J. HUNTER
THUMS Long Beach Co.

Bill received his B.S. and M.S. in Geology from the University of Nebraska, and in 1955 joined Standard of California in Bakersfield. In 1956-65 he worked for the California State

Lands Division and the California State Division of Oil and Gas. His career with THUMS began in 1965, where he has worked as Senior Geologist and presently is Senior Engineer. Bill was President of the LABGS in 1973, and has also served the Pacific Section as Convention Site Chairman and member of the Continuing Education Committee.

* * *

For Vice-President



ERNEST I. RICH
Stanford University

Ernie is the Associate Dean of Student Affairs at Stanford, where he has served as an Associate Professor of Geology since 1968. He received his M.A. from UCLA in 1953 and his Ph.D. from Stanford in '68, and has served as Secretary and Treasurer of the Peninsular Geological Society and President of the Northern California Geologic Society. Currently, he is Program Editor of the AAPG Circum-Pacific Energy and Mineral Resources Conference.

* * *

For Vice-President

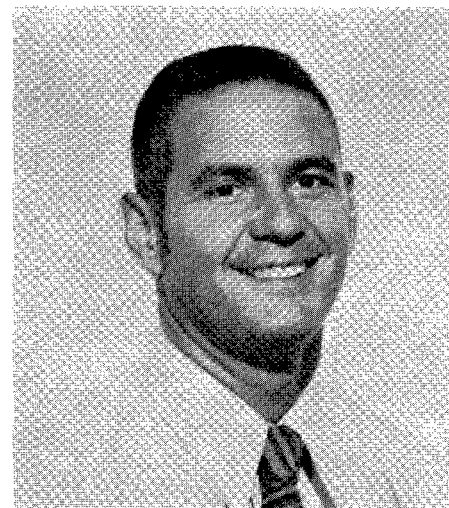


DONALD ZIEGLAR
Standard Oil Company

Don attended the University of New Mexico and then Harvard, receiving his Ph.D. in 1959. In 1953, he became a petroleum geologist for the California Co., and presently is Chief Exploration Geologist for Standard. In 1958 he was editor of the Billings Geological Society 9th Annual Field Conference Guidebook and since 1972 has been a member of the AAPG House of Delegates.

* * *

For Secretary



STANFORD ESCHNER
Occidental Oil Co.

Stan is a UCLA grad, and worked for the Corps of Engineers and Shell Oil before joining Oxy in 1961. Currently, he is Manager of N. American Exploration and serves the Pacific Section as Chairman of the Constitution and Bylaws Committee. He has also served as Field Trip Chairman of the Spring, 1969 Convention and Site Coordinator for the 1972 Annual Meeting. Stan's paper on the Sawtelle Field won "Best Paper Award" at the 1972 Annual Meeting, and was also given at last year's National Convention.

(continued on page 9)

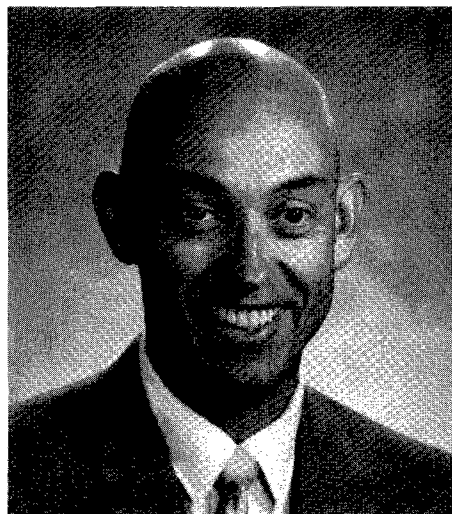
CHANGE OF ADDRESS

Dick Hester has decided to leave McCulloch Oil Corp. and is now settled in downtown L.A. with:

Westates Petroleum Co.
811 West 7th Street
Los Angeles, California 90017
(213) 620-1770

Bill Bedford has left the L.A. Texaco office and is now located in Denver:

Texaco Inc.
P.O. Box 2100
Denver, Colorado 80201
Energy Resources Dept.
(303) 573-7571

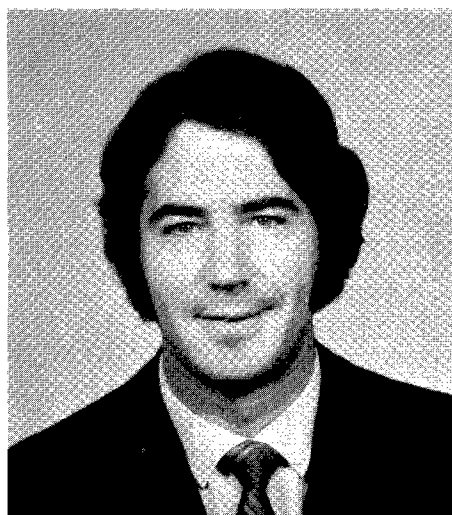


DON WM. REYNOLDS
Union Oil Co.

Don started as a roughneck in 1950 and from 1950-52 was Manager of Geochemical Engineering Co. After receiving his degree from Ohio State, he worked for Union in West Texas, Alaska, California, and currently is Area Geologist for the San Joaquin Valley for Union. He served as Chairman for several committees in the West Texas Geological Society, and recently has served the San Joaquin Geological Society as Treasurer, as well as Chairman of their Continuing Education Committee.

* * *

For Treasurer



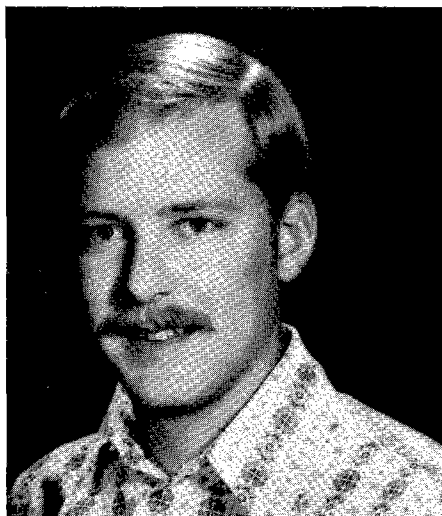
JOHN L. LIVINGSTON

After receiving his Ph.D. from Rice University in 1966, John joined Shell and worked for four years as a Structural and Research Geologist concerned with Gulf and Pacific Coast Stratigraphy and Tectonics. When he transferred to Shell of L.A. in 1970, he summered in Alaska field camps and worked as a Senior Geologist in

the Gulf of Alaska and San Joaquin Valley. Last June he joined Geologic and is presently consulting in Oil, Gas, Geothermal, and Mineral Resource areas.

* * *

For Treasurer



SCOTT KNIGHT
Texaco Inc.

Scott has worked for Texaco in Los Angeles since graduation from Cal. Lutheran in 1970, and was Area Geologist for Ventura in 1971-73. Presently he is Area Geologist for California Offshore. In 1973, Scott was nominated Treasurer of the L.A. Basin Geological Society and worked on the information committee in the National AAPG Convention in Anaheim.

San Joaquin

First-class lectures and friendly verbal sparring between the instructors characterized the recently completed San Joaquin Geological Society Short Course entitled, "Geologic Interpretations from Global Tectonics with Applications for California Geology and Petroleum Exploration," presented by Gregory A. Davis (University of Southern California), William R. Dickinson (Stanford University), W. G. Ernst (University of California, Los Angeles), Eldridge Moores (University of California at Davis), and Eli A. Silver (University of California at Santa Cruz).

The stimulating two day course included 15 one-hour lectures on such subjects as Geometry of Plate Tectonics, Mesozoic Framework of California, and Migration of Petroleum. This was not only an excellent opportunity for the industry geologist to be updated by the academicians from California Universities on Plate Tec-

tonics, but a time to share and exchange thoughts between the mixed group.

Despite the gasoline shortage in some areas, approximately 350 people from industry and the universities (1:1 ratio) attended the Short Course. For those that were unable to attend the course, the publication prepared for the session, may be purchased for \$5.00. Please contact Donald E. Haltinger, M.L. 1106 c/o Southern California Gas Company, 720 West 8th Street, Los Angeles, California 90017, to obtain your copy of the notes. Our thanks are extended to the instructors for their presentations of a fine course.

Candidates for office in the San Joaquin Geological Society for 1974-1975:

President

Don Taylor — Tenneco
Bill Edmonson — Consultant

Vice-President

Ed Karp — Bakersfield J.C.
Ken Wainwright — ARCO

Secretary

John Sullivan — D.O.G.
Ron Murk — Gulf

Treasurer

Bud Reid — Sunburst Petroleum
Carol Blythe — Strato Log

For Representative to the National AAPG

Bob Nesbit
John Carver
Phil Ryall

For Representative to the Pacific Section

Susan Cage
Hal Nelson

The March meeting, in addition to the talk on the North Sea, had an entertainment. The management obtained the services of a female semistreaker. We say semi since she was not a streaker in the now classic sense having worn the bottom of a bikini. That which was visible more than made up in interest for what little was covered.

HAROLD SUGDEN

Alaska

NO REPORT.

Northwest

NO REPORT.

Sacramento

New officers for the Sacramento Petroleum Association for 1974 are:

President, Lee Rhodes, Exploration Logging; Vice-President, Herb Wheeler, Dow Chemical; Sec.-Treas., Huey Trumps, Schlumberger.

Art Hawley, Consulting Geologist, is recuperating at home from a recent operation, and would appreciate a call or letter from any of his friends.

The Northern California Chapter of API met Tuesday, March 19, at the Point in Rio Vista. Cocktails and dinner were attended by 50 members.

Mr. Harry W. Reppert, Economic Evaluation Engineer in the Exploration Dept. of Occidental Petroleum Co., introduced the film "Quest" presented to the members. The film discussed Occidental's world-wide involvement in oil and gas exploration and the modern techniques used to define these areas.

Dow Chemical U.S.A.—Oil and Gas Division, has recently opened an office in Sacramento. All drilling and exploration activity in California will be handled by Herb Wheeler, Petroleum Engineer, and Terry Plumb, Geologist. The office is located at 3415 American River Drive, Suite "C," Sacramento, CA 95825. Telephone (916) 482-8490.

Robert D. Reedy, Consulting Geologist formerly affiliated with Signal Oil and Gas Co., has opened an office in Sacramento. Mr. Reedy will be consulting in both petroleum and geothermal resources. The office is located at 2775 Cottage Way, Suite "9," Sacramento, CA 95825. Telephone (916) 482-6457.

TERRY PLUMB

RECOMMENDED READING

THE ORE BIN, vol. 35, no. 12, December 1973

Landforms along the coast of southern Coos County, Oregon, by Ernest H. Lund

THE ORE BIN, vol. 36, no. 1, January 1974

Oil and Gas exploration in 1973, by Vernon C. Newton, Jr.

Geothermal activity in 1973, by Richard G. Bowen

WASHINGTON STATE DIVISION OF GEOLOGY AND EARTH RESOURCES (Olympia 98504)

Information Circular no. 50: Energy resources of Washington (various authors)\$1.00

U.S. GEOLOGICAL SURVEY
OPEN FILED REPORTS (Inspection only)

Preliminary gravity and magnetic maps of the Strait of Juan de Fuca, British Columbia, Canada, and Washington, United States, by the U.S. Geological Survey and the Geological Survey of Canada. 10 pages, 3 figs.

Reconnaissance study of the geothermal resources of Modoc County, California, by Wendell A. Duffield and Robert O. Fournier. 20 p., 1 pl., 1 fig., 3 tables.

Preliminary report of seismic refraction survey along the east side of the San Francisco Bay, Alameda County, California, by R. M. Hazlewood. 11 p., 1 pl., 8 figs.

Seismic reflection profiles on the continental shelf and slope between Bering Strait and Barrow, Alaska, and Mackenzie Bay, Canada, by Arthur Gantz, A. Graig McHendrie, Tor H. Nilsen, and C. J. Yoro. 49 sheets seismic reflection profiles and 2 index maps showing seismic reflection profiles. Scale 1:1,000,000.

(Entire report is available for inspection at the Library, USGS, 345 Middlefield Road, and Public Inquiries Office, 108 Skyline Building, 508 2nd Ave., Anchorage, Alaska 99501. Index maps only are available for inspection at the Public Inquiries Offices in Los Angeles, San Francisco and Spokane.)

Aeromagnetic map of parts of the Walker Lake and Mariposa 1° by 2° quadrangles, eastern California, by the U.S. Geological Survey. 1 sheet.
LUCY E. BIRDSALL

PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS

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(805) 327-7351
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Northwest

Sacramento TERRY PLUMB
(916) 482-6457
San Joaquin HAROLD SUGDEN
(805) 399-2961
Recommended Reading LUCY E. BIRDSALL
(213) 688-2850

NEWSLETTER of the Pacific Section—American Association Petroleum Geologists is published monthly by the Pacific Section.

Material for publication and requests for previous copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3550 WILSHIRE BLVD., L.A., CALIF. 90010.

Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

VOLUME 28

MAY, 1974

NUMBER 5

SAN DIEGO CONVENTION HIGHLIGHTS

John Minch, Bill Elliott and all of the hard working convention committees in San Diego — deserve a big "Thank You" from the Pacific Section membership.

The San Diego meetings, including the pre-convention cruise and the post convention Field Trip, were fun, informative, and refreshing changes for all of those in attendance.

Rogers C. B. Morton, as the luncheon speaker and during an earlier news conference, gave straight answers regarding energy requirements and the need for public support of efforts to find and develop new domestic supplies.

All questions and concerns, relating to the government's part in future exploration programs, were *not* settled to the satisfaction of many; however, the problems were exposed and various attitudes expressed by Dan Busch (AAPG), by J. E. Bodovitz (Calif. Coastal Commission), by Chuck Masters (USGS), and by members of the audience.

New concepts on the geology of Baja California and the geologic relationship between Baja and California, including offshore areas, were presented and discussed during and following the Baja Symposium.

Informative and interesting developments in geophysical techniques were explained and discussed — this was especially true of the session on Bright Spots and Amplitude Information and the paper revealing results and techniques from the mapping of natural seepages along the Southern California Shelf by means of a high resolution sub-bottom profiling system.

Again — from the Pacific Section Membership — thanks to John Minch and his Committee men and women.

PETE GARDETT

JAPANESE AND KOREAN EXPERTS SET PROGRAM FOR CIRCUM-PACIFIC ENERGY AND MINERAL RESOURCES CONFERENCE

Dr. Isamu Kobayashi, Director, Japanese Geological Survey, in conjunction with leading earth scientists of Japan, Korea and other Asiatic countries has assembled an outstanding program concerned with the effects of the energy-and mineral-resources crisis on the northwest Pacific. Twenty-five forward-looking papers covering the petroleum, mineral, ground-water, and geothermal potential of the region will be presented as an important part of the Circum-Pacific Energy and Mineral Resources Conference, August 26-30, 1974, Honolulu. This international conference, the most comprehensive yet undertaken in the Pacific area, is supported by more than 40 prestigious scientific organizations, including the Geological and Mineral Institute of Korea, the U.S.-Japan Cooperative Program in Natural Resources, and the Japan Geothermal Energy Association.

Dr. Kobayashi, as Program Vice-Chairman for the northwest Pacific region has asked the following scientists to assist him in preparing the program:

Dr. Yasufumi Ishiwada, General Manager of the Petroleum Technology Center, Japan Petroleum Development Corporation is the *Regional Hydrocarbon Coordinator*

Dr. Tatsuo Tatsumi, Professor, University of Tokyo is the *Regional Minerals Coordinator*

Dr. Masami Hayakawa, Professor, Tokai University, is the *Regional Geothermal Coordinator*

Dr. Soki Yamamoto, Professor, Tokyo University of Education is the *Regional Hydrogeology Coordinator*

Dr. Shun-ichi Sano, Chief of the Over-

(continued on page 3)

Pacific Section Spring Picnic

The Pacific Section AAPG Annual Spring B.B.Q., Golf Tourney and Field Trip will be held Friday, June 7, 1974, under the chairmanship of Doug Traxler, Signal, Long Beach. A formal announcement and request for reservations will be mailed to the entire Pacific Section membership in the near future.

As now planned:

B.B.Q.: Will be held at Britt Park, Piru (located at bottom of Torrey Canyon Road). Snacks start at 4:30 p.m., with the main B.B.Q. at 7:00 p.m. Total cost of this event will be \$5.00. Keg beer and games of luck and skill will also be available. Contact Chairman Dave Totten, Union, Santa Fe Springs for additional details and volunteer workers.

Golf: Starting times from 7:30 a.m. to 11:30 a.m. at Elkins Ranch Golf Course, Fillmore (located south side of Santa Clara River just east of Bardsdale). A \$5.00 per person fee includes all golf and gross/net prizes. Electric carts are available on a first come-first served basis — one-half hour before starting time — at \$7.00 each. Arrangements for foursomes included in mail-out. Contact Chairman Scott Knight, Texaco for additional information and volunteer workers.

Field Trip: An informal Field Trip up San Emigdio Creek, Southern San Joaquin Valley, will cover a portion of the SEPM Field Trip 2 Anaheim Convention. Cost, including a guidebook, box lunch and refreshments — \$5.00. Contact Chairman Arch Warne, Bakersfield consultant for additional details and volunteer workers.

Sacramento

The Sacramento Petroleum Association will hold its 21st Annual Golf Tournament and Barbecue on Friday, May 24, 1974. The event will be held, as in previous years, at the Yolo Flyers Club, located four miles west of Woodland on State Highway 16. Tee off time is between 8 a.m. to 12 noon, with dinner at 6:30 p.m. Advance tickets for the dinner may be obtained by writing the S.P.A., P.O. Box 214375, Sacramento, CA 95821. Please enclose cash or check for the number of tickets desired. Costs include: green fees, \$7.50; cart, \$10.00; dinner (prime rib), \$8.00.

Starting times are not necessary but if desired may be arranged by calling the Yolo Flyers Club Pro Shop (916) 662-8050. Carts may also be reserved through the Pro Shop.

Golf prizes, door prizes and lots of suds will be present at what promises to be another excellent, enjoyable event.

TERRY PLUMB

BOOK REVIEW

"Geological Literature on the San Joaquin Valley of California," a new publication of the Northern California Geological Society and the Pacific Section of the American Association of Petroleum Geologists, is now available. This 291-page bibliography, compiled by J. C. Maher, W. M. Trollman and J. M. Denman of the U.S. Geological Survey, contains over 3200 references to published works and college theses prior to January 1, 1973. The area covered, extending from the Sierra Nevada to the Coast Ranges and San Andreas fault of Central California, is of particular significance in studies of stratigraphy and paleontology, tectonics, engineering geology, geophysics, hydrology, and petroleum geology. The 72-page index contains listings by subject, geographic area and geologic age. Priced at \$9.00 (postpaid within the U.S.), the publication can be obtained from the Pacific Section AAPG (Don Hallinger, Pacific Lighting & Gas Development Co., 720 West 8th Street, Mail Location 1106, Los Angeles, California 90017).

Los Angeles

Texaco will provide fun, games, booze, steaks, etc., at the next Los Angeles Basin Geological Society barbecue, Northern Station, La Mirada. The featured speaker will be Dr. Donald Henriksen of ARCO who will speak on Alaskan North Slope Oil Operations. The time and date is 5 p.m. Thursday, June 27, 1974.

Signal Oil's giant California staff has had some significant changes. Tom Manera resigned and is now working for Skelly Oil in Denver. Ted Ehring is now commuting to Huntington Beach from La Canada. How does he do it when he can only buy gas every

other day? Bob Scott has been transferred from Midland to Long Beach.

John De Benedetti of Union Oil's staff in Santa Fe Springs is recuperating at home after successful surgery. Craig White is also recuperating from nose surgery and has offered to become the LABGS streaking coach for future meetings and conventions. If anyone is interested, call Craig. (How about it, B.C.?)

Of general interest, Doug Traxler reports the National Convention in San Antonio voted to reduce to three years, from five years, the experience requirement for AAPG active membership. A Master's degree still counts as one year and a Doctorate's degree as three years.

TOM W. REDIN



EAGLE MOUNTAIN

Eagle Mountain watches over the southeastern entrance into California's Death Valley and stands alongside the infrequent Amargosa River 30 miles north of Shoshone.

The 3800' Cambrian orphan rises abruptly on the east side of the Furnace Creek fault, jutting 1600 feet above the flat dry valley floor. It casts a morning shadow over highway 127 which parallels the fault and riverbed.

Thirty-six miles to the west, desolate Copper Canyon now carves its way around one of Death Valley's unique Turtlebacks, but its lake beds once hosted large numbers and varieties of life when Pleistocene lakes were common and fresh.

Camels, horses, elephants, lions, tapirs and sloths, among others, were seen around the lake edges and left their prints in the shallow water bot-

tom. As the lakes dried or became saline, some varieties left the area never to return as natives.

Asia eventually acquired the camels, horses and a variety of elephant. Africa inherited the lions and another elephant. Tapirs and sloths moved to Central and South America.

Eagle Mountain environs were visited by Mountain Sheep from Asia during the Pleistocene. Musk ox and Bison passed through also.

In contrast to the present austerity of Eagle Mountain area today, the Pleistocene population enjoyed and thrived on the climate many thousands of years ago.

There are many basin and range valleys considerably more abominable and dangerous with nicer names — but perhaps Death Valley was nearer to the flamboyant press.

Coast

New Officers 1974-1975

President Edward A. Hall
Union Oil Co. of Calif.
1003 Main Street
Santa Paula, Calif. 93060
(805) 525-3112
(805) 647-3887 from Ventura

Vice-President Ralph P. Cahill
Argo Petroleum Corp.
1336 Callens Road
Ventura, Calif. 93003
(805) 642-6709

Secretary Richard L. Stewart
Union Oil Co. of Calif.
1003 Main Street
Santa Paula, Calif. 93060
(805) 525-3112
(805) 647-3887 from Ventura

Treasurer James A. Brown, Jr.
Continental Oil Company
P.O. Box 3357
Ventura, Calif. 93003
(805) 642-8154

ROGER HUBBELL

1974 National AAPG Meeting

One hundred twenty-six out of 150 delegates were in attendance at the House of Delegates meeting in San Antonio. All measures on the agenda passed, including the reduction of experience time for AAPG membership to three years. Delegate's term of office will be extended to three years starting July 1, 1975.

Over 4,500 geologists and wives registered at San Antonio. This was the largest attendance recorded since the 1963 Houston meeting and the largest out-of-town registration ever attained by AAPG.

There are almost 16,000 members in AAPG now — a record high. The Budget is approximately 1,000,000.00. Cost of publications is increasing at 10-15% per year. The AAPG Bulletin publication cost is greater than income from dues. To solve the ever increasing publication costs, the Wallace Pratt Foundation has been established. Income derived from donations to the foundation will eventually cover publication costs.

There are 35 employees at Headquarters eager to serve the membership. Office space is short and plans are being formulated to expand the Headquarters building.

PAGE 3

JAPANESE EXPERTS... (from page 1)
seas Geology Office and Dr. Yoshihiko Shimazaki, Chief of the Mineralogy Section, Geological Survey of Japan are *Members* of the Regional Technical Program Committee.

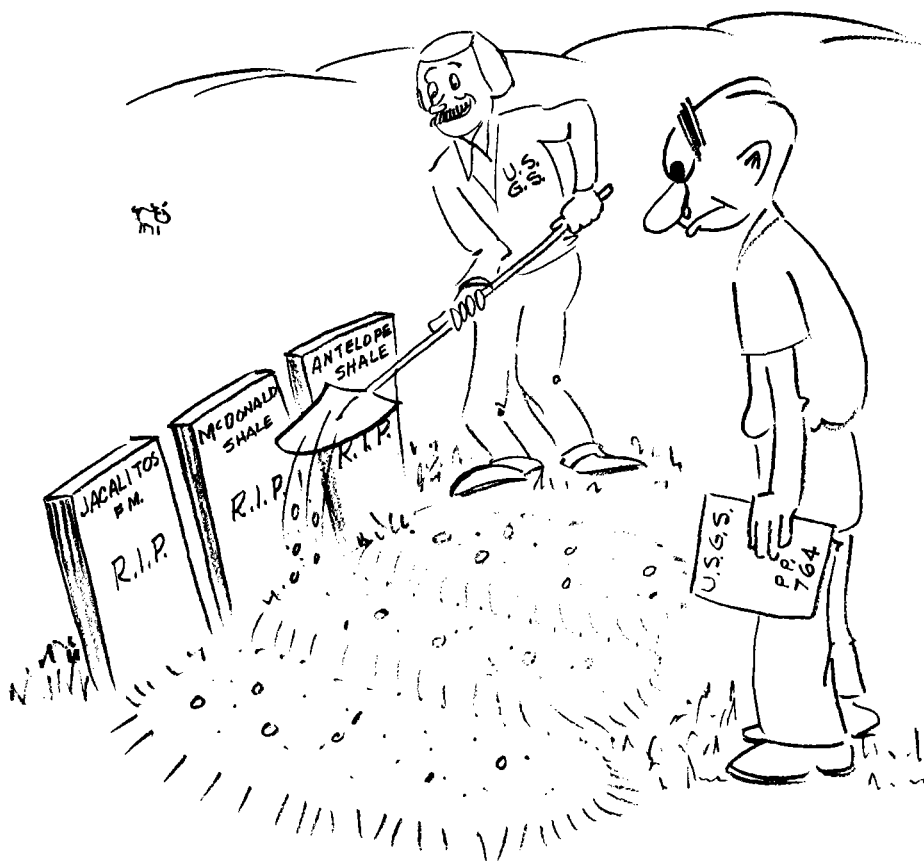
Dr. Joung Hwan Lee, Director-General of the Geological and Mineral Institute of Korea, is in charge of the Korean program, and at his request, the Geological Society of Korea has selected the following committee to help obtain outstanding papers:

Chairman: Dr. Chi Mu Son, Professor Geology at Seoul University and President, Geological Society of Korea.

Secretary: Mr. Chong Su Kim, Director, Marine Geology Division, Geological and Mineral Institute of Korea

Members: Dr. Ok Joon Kim, Professor, Yonsei University; Dr. Sang Man Lee, Professor, Seoul University; Dr. Bong Kyun Kim, Professor, Seoul University; Dr. Dai Sung Lee, Professor, Yonsei University; Mr. Jong Hwan Kim, Director, Economic Geology Division, Geological and Mineral Institute of Korea.

ANDY CLINE by Sallwold



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NEWSLETTER of the Pacific Section—American Association Petroleum Geologists is published monthly by the Pacific Section.

Material for publication and requests for previous copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3550 WILSHIRE BLVD., L.A., CALIF. 90010.

Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

SUMMARY OF LEGISLATION RELATED TO GEOLOGISTS

Geological Coordinating Council March 1974

1. S.B. 158 — Rhodda — Requires geological report signed by certified Engineering Geologist for sub-divisions. (Died in committee. Will be re-introduced, probably will include commercial buildings.)

2. S.B. 520 (Old Bill) — Requires State Geologist to produce maps of known geologic hazards. (Now being implemented, San Andreas rift system is finished.)

3. S.B. 893 — Berryhill — Requires State Geologist to publish annual report on minerals and geologic hazards. (*Signed into Law*, previously reported.)

4. A.B. 1345 — Knox — Provides contractors limit of liability for Acts of God, limit 5% of \$50,000. (Geologists, etc., not included.)

5. S.B. 1372 — Alquist et al — Requires minimum earthquake design for all emergency service buildings including review by registered engineers and geologists. (In committee, passed by Senate, in Assembly.)

6. S.B. 1375 — Alquist — Require buildings holding emergency communication equipment meet earthquake standards. (In committee.)

7. S.B. 1376 — Gregorio — Relating to extending Coast Zone Commission deadline. (Stricken from file by author.)

8. S.B. 1671 — Biddle — Puts a penalty up to \$2500 against frivolous claims against Registered Engineers and Geologists, etc., goes to defendant. (In committee.)

9. S.B. 1729 — Alquist — Creates seismic safety commission. Abolishes previous building safety and strong motion instrument boards that require professional experts. (Not a good bill, being rewritten.)

10. A.C.A. 26 — Miller — Establishes compensation for catastrophic events, i.e., landslides, flood, etc. (Needs to be amended to state that recipient must be in compliance with zoning. May duplicate federal actions.)

11. Assembly Joint Resolution 77 — MacDonald — Prohibits strip-mining in national forests. (Already closely regulated.)

12. A.B. 889 — Environmental Impact Act — (Old bill now law) — Amendment that will require the fields of expertise and source be documented, licenses be stated, etc.

13. A.B. 2976, 2977, 2978, 2979 —

Priolo — A group of bills that will extend Coastal Zone Conservation Act concept throughout the State. Will be able to override local planning commissions. (Replaces A.B. preprint bill No. 1.)

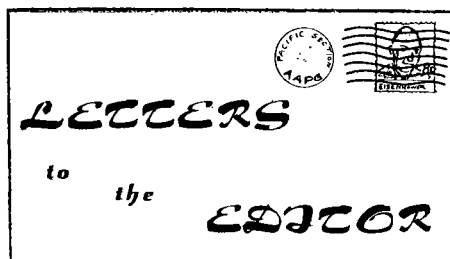
14. A.B. 3030 — Burton — Repeal depletions allowance for oil produced outside California, 22% remains for Cal Oil. (In committee — may not be pertinent due to current Federal actions.)

15. A.B. 3142 — Meade, Mills et al — Would place major petroleum corporations under regulations of P.U.C., if involved in "at least two segments of the industry," i.e., producing and refining, etc. Hearing set March 22, 1974. (No data on results.)

16. A.B. 3173 — Chaffee — Extends deadline for adoption of City general plans to December 1976. (Slosson suggests a review should be made of these general plans by State. Refers to S.B. 351-1971, see 65302 of Gov. Code which requires adoption of General Plan.)

The final report of the Joint Seismic Safety Commission is available. "Meeting the Earthquake Hazard." Senator Alfred E. Alquist, State Capitol, Sacramento, Calif. 95814 — \$3.00.

DENNIS R. ALLEN
Pacific Section, AAPG
Legislative Committee



Bob Paschall in Sacramento took Pete Gardett seriously regarding Pete's submitting Mike Halbouty's prophetic statement of November 1960. Bob wrote in to say that he had sent a letter to his congressman and both U.S. senators, including Mike's statement and the request that Congress refrain from panicking until, at the very least, it seeks the advice of someone as well informed as Halbouty. And what have you done lately?

ROBERT H. PASCHALL

I have just reviewed the Tentative Technical Program flyer received before the up-coming San Diego convention and I am all shook up. I make a point of writing this letter *before* the convention so that my complaint cannot be construed as criticism of the papers, authors or the convention.

Discounting Thursday morning when the program is comprised of visiting dignitaries, there are a total of

20 technical papers presented by 24 individual authors — some jointly authoring more than one paper. Of these 24, only 10 are Active Members of the AAPG and two are Junior members. Thus, the Pacific Section AAPG is putting on the 49th Annual Convention and only half the speakers are members of the outfit, the remainder do not appear to be "oil oriented."

This startling state of affairs is due to one or more of the following:

1. Very poor recruiting of new AAPG members.
2. AAPG members have run out of new material.
3. Virtually nobody in AAPG knows anything about the Theme Area.
4. The Pacific Section has suffered an energy gap.

So I am writing this letter to ask, "Who knocked the 'P' out of AAPG?"

ROBERT N. HACKER

* * *

As you are no doubt aware, our industry is under concentrated attack by: the media, consumer groups, environmentalists, local, state, and federal governmental officials and legislators. Unfortunately the petroleum industry spokesmen such as IPAA, API, etc., are being ignored or rejected in their attempt to present the facts on the current energy crisis. The climate is hostile and growing more so each day.

There is an effective way to reach the public with our industry's message. With your cooperation we can generate a grass roots understanding of the problem. The Public Information Committee of AAPG will soon have ready for distribution a speech entitled "Energy Crisis—Real or Contrived?" illustrated with nine 35mm slides.

Each society is being asked to form a Speakers' Bureau composed of several good speakers who can deliver this speech to church groups, school classes, civic organizations (Chamber of Commerce, etc), fraternal groups (B.P.O.E., etc.), etc. on a request basis.

A pilot program has been conducted and has met with enthusiastic response both from speakers and audiences.

Would you please appoint a Chairman of your local Speakers' Bureau and forward his name and address to me. As soon as the duplicate slide sets have been prepared, they will be sent to your Chairman along with the speech, and instructions on publicizing the speech's availability.

GARY A. McDANIEL
AAPG Public Information Committee
1704 Fidelity National Building
Oklahoma City, Oklahoma 73102

RECOMMENDED READING

CALIFORNIA DIVISION OF MINES & GEOLOGY (Mail orders: P.O. Box 2980, Sacramento, CA 95812)

Bulletin 194: The Mineral economics of the carbonate rocks: Limestone and dolomite resources of California, by Oliver E. Bowen, Clifton H. Gray, Jr. and James R. Evans. 1973\$4.00

Special Report 105: Geology of parts of the Azusa and Mount Wilson quadrangles, San Gabriel Mountains, Los Angeles County, Calif., Douglas M. Morton. 1973\$4.50

Preliminary Report 15: Geo-environmental maps of Orange County, California, by Paul K. Morton, Russell V. Miller and Donald L. Fife. 1973\$2.50

Preliminary Report 16: Geology for planning on the Sonoma County Coast between the Russian and Gualala Rivers, by M. E. Huffman. 1972\$3.50

THE ORE BIN, vol. 36, no. 3, March 1974

Wright's Point, Harney County, Oregon. An example of inverted topography, by Alan R. Niem

U.S. GEOLOGICAL SURVEY

Professional Paper 387-B: Recent activity of glaciers of Mount Rainier, Wash., by R. S. Sigafos and E. L. Hendricks\$8.95

Professional Paper 485-E: Historic flood information for northern California streams from geological and botanical evidence, by E. J. Helley and V. C. LaMarche, Jr.\$1.65

Professional Paper 777: Silurian rugose corals of the central and southwest Great Basin, by C. W. Merriam\$2.15

Professional Paper 799: Middle Devonian rugose corals of the central Great Basin, by C. W. Merriam\$1.85

Professional Paper 802-B: Summary of turbulence data from rivers, conveyance channels, and laboratory flumes, by R. S. McQuivey\$1.55

Professional Paper 808: Paleontology and stratigraphy of the Rabbit Hill Limestone and Lone Mountain Dolomite of central Nevada, by C. W. Merriam\$1.75

Professional Paper 824: Devonian carrier shells (Euomphalidea) from North America and Germany, by R. M. Linsley and E. L. Yochelson\$1.15

Professional Paper 830: Zeolites and associated authigenic silicate minerals in tuffaceous rocks of the Big Sandy Formation, Mohave County, Ariz., by R. A. Sheppard and A. J. Gude 3d\$1.05

Professional Paper 850: Geological Survey Research, 1973\$4.95

Bulletin 1370: Bibliography of North American geology, 1970\$8.70

Bulletin 1385-A: Mineral resources of the Chiricahua Wilderness area, Cochise County, Ariz., by Harold Drewes and F. E. Williams, with a section on Aeromagnetic interpretation, by G. P. Eaton\$1.35

Bulletin 1394-A: Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1972, by G. V. Cohee and W. B. Wright\$1.00

Bulletin 1394-C: Gasineau Channel Formation, a composite glaciomarine deposit near Juneau, Alaska, by R. D. Miller35¢

Bulletin 1394-E: The Auld Lang Syne Group of Late Triassic and Jurassic (?) age, north-central Nevada, by D. B. Burke and N. J. Silberling 35¢

Circular 650: Energy resources of the United States, by P. K. Theobald, S. P. Schweinfurth and D. C. Duncan. (Reprinted 1973)Free

Circular 688: Liquefaction, flow and associated ground failure, by T. L. Youd. 12 pagesFree

U.S. GEOLOGICAL SURVEY MAPS

GQ 1068: Geologic map of the Iliamna B-2 quadrangle, Augustine Island, Alaska, by R. L. Detterman\$1.00

I-845-D: Map showing depth to water in wells in the Phoenix area, Arizona, 1972, by W. R. Osterkamp 75¢

I-845-E: Arability map of the Phoenix area, Arizona, by the U.S. Bureau of Reclamation and U.S. Dept. of Agriculture75¢

I-846-A: Map of slopes and their environmental significance in the Marana quadrangle, Arizona, by U.S. Geological Survey75¢

I-853-A: Map showing spawning areas of Anadromous fish in southern Hood Canal, Wash., by J. D. Findlay75¢

I-854-A: Map showing percolation rates of earth materials in western Whatcom County, Wash., by D. J. Easterbrook75¢

MF 531: Geologic map of the Cordova quadrangles, Hinchinbrook Island, A-7 and A-8, B-6 and B-7 and B-8 Alaska, by G. R. Winkler50¢

MF 532: Bottom features and processes related to drifting ice on the arctic shelf, Alaska, by Erk Reimnitz, P. W. Barnes, and T. R. Alpha50¢

MF 535: Isopleth map of landslide deposits, Point Dume quadrangle, Los Angeles, Calif.; an experiment in generalizing and quantifying areal distribution of landslides, by R. H. Campbell50¢

MF 536: Reconnaissance geologic map of the McCarthy A-5 quadrangle, Alaska, by E. M. MacKevett, Jr.50¢

GEOLOGY, vol. 2, no. 4, April 1974
Speculations on geologic structures in northern California as detected from ERTS-1 Satellite imagery, by Ernest I. Rich, and William Clinton Steele

Environmental monitoring: Impact of mining gravel from urban stream beds in the southwestern United States, by William B. Bull and Kevin M. Scott

Strontium, rubidium, potassium and calcium variations in Quaternary lavas, Crater Lake, Oregon, and their residual glasses, by Donald C. Noble, and Marjorie K. Korringa

Magnetic polarity sequence of the Upper Triassic, Kayenta Formation, by M. B. Steiner and C. E. Helsley

Reproducible anomalous Upper Triassic magnetization, by M. B. Steiner and C. E. Helsley

Central San Andreas Fault: Strain episodes, fault creep and earthquakes, by Charles G. Bufe, and Don Tocher

GEOTIMES, vol. 19, no. 3, March 1974

Testing a hot-spot theory, by the Scientific Staff Gondwana reviewed in Canberra, by Campbell Craddock

SCIENTIFIC AMERICAN, vol. 230, no. 3, March 1974

The gasification of coal, by Harry Perry

SCIENTIFIC AMERICAN, vol. 230, no. 4, April 1974

Plate tectonics and the history of life in the oceans, by James W. Valentine and Eldridge M. Moores

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 85, no. 2, February 1974

Transverse Ranges Province: A unique structural-petrochemical belt across the San Andreas Fault System, by A. K. Bair, D. M. Morton, K. W. Bair and A. O. Woodford

Correlation and redefinition of the Goodsprings Dolomite, Southern Nevada and eastern California, by William T. Gans

Jurassic SUPRATRUCTURE in the Delano Mountains, northeastern Elko County, Nevada, by John F. Slack

Geologic evolution of the Sierra Nevada de Santa Marta, northeastern Colombia, by Charles M. Tschanz, Richard F. Marvin, Jaime Cruz B., Harald H. Mehnert and Gerald T. Cebula

(continued on page 6)

RECOMMENDED READING ...

(from page 5)

Garnet clinopyroxenite from the Red Mountain Pluton, Alaska, by Robert B. Forbes and R. C. Swainbank
 Poway Fan and submarine cone and rifting of the inner southern California Borderland, by Robert S. Yeats, Mark R. Cole, Walter R. Merschat and Robert M. Parsley
AMERICAN JOURNAL OF SCIENCE, vol. 274, no. 2, February 1974
 North American Paleozoic foldbelts and deformational histories: a plate tectonics anomaly?, by Robert D. Hatcher, Jr.
 Magnetostratigraphy and oroclinal folding of the Columbia River, Steens, and Owyhee basalts in Oregon, Washington, and Idaho, by N. D. Watkins and A. K. Baksi
 Equilibrium and oxidation potential in geothermal waters at Broadlands, New Zealand, by T. M. Seward
GEOLOGY, vol. 2, no. 3, March 1974
 Eureka Valley Tuff, East-Central California and adjacent Nevada, by Donald C. Noble, David B. Slemmons, Marjorie K. Korringa, William R. Dickinson, Yehya Al-Rawi, and Edwin H. McKee.
 Possible modern analogs for rocks of the Francisco Complex, Mount Oso area, California, by Loren A. Raymond
 Tectonic significance of the Kodiak-Bowie Seamount chain, northeastern Pacific, by Eli A. Silver, Raymond von Huene, and James K. Crouch
 Deep eustatic terrace levels: further speculations, by Richard M. Pratt and Robert F. Dill
 Basis for skeletal plasticity among reef-building corals, by Jon N. Weber

BOOKS

Cities and geology, by Robert F. Legget. McGraw-Hill (1973)
 624 pages\$15.50
 Geomorphology in deserts, by Ronald U. Cooke and Andrew Warren. University of California Press (1973)
 394 pages\$15.00
 Marine evaporites: origin, diagenesis and geochemistry, edited by Douglas W. Kirkland and Robert Evans. Rowden, Hutchinson & Ross (1973)
 426 pages\$20.00
 Petroleum geology: a concise study, by Richard E. Chapman. Elsevier (1973) 304 pages\$22.50
 Studies on the geology; and geologic hazards of the greater San Diego area, California, by Arnold Ross and Robert J. Dowlen. San Diego Association of Geologists (1973). San Diego (4320 Vandever Ave., 92120). 152 pages\$6.00
 Geothermal energy; resources, production, stimulation, edited by Paul Kruger and Carel Otte. Stanford University Press (1973)
 360 pages\$17.50
 U.S. BUREAU OF MINES (Purchase from the Government Printing Office, Washington, D.C. 20402)
 Report of Investigation 7775: Geology of Eocene rocks and oil yields of Green River Oil Shales on part of Kinney Rim, Washakie Basin, Wyoming, by Laurence G. Trudell, Henry W. Woehler, and John Ward Smith. 1973. 151 pages, 8 figures. (GPO Catalog No. I28.23:7775. Stock No. 2404-01429)\$2.90
STANFORD UNIV. PUBLICATIONS/GEOLOGICAL SCIENCES
 Proceedings of the Conference on Tectonic problems of the San Andreas Fault System. Vol. Xiii, 1973.
 494 pages

MAPS:

Tectonic map of Mexico. Compiled by Zoltan de Cserna; Bathymetry compiled by Bruce C. Heezen. 1961. In color. 35 by 52½ inches. Scale, 1:2,500,000\$6.50
 Tectonic map of the Alaska Peninsula and adjacent areas, by C. A. Burk. 1965. In color. 31½ by 38¼ inches. Scale, 1:1,000,000. Part 3 of Memoir 99\$3.25
 Tectonic map of the Alaska Peninsula southeast of Wide Bay, by C. A. Burk, 1965. In color. 2 sheets, each 40½ by 49½ inches. Scale, 1:250,000. Part 2 of Memoir 99. Contour intervals are 200 and 1000 feet ..\$8.00
 Reconnaissance geology of the State of Baja California. (To be published in 1974, and to accompany Memoir 140.
 Folded in 9" by 12" envelope \$7.50
 Rolled in mailing tube\$10.00

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 43, no. 4, December 1973

Supratidal environment and geochemistry of some recent dolomite concretions, Broad Sound, Queensland, Australia, by Peter J. Cook
 Recent stromatolites from hydromagnesite and aragonite depositing lakes near the Coorong Lagoon, South Australia, by M. R. Walter, S. Golubic, and W. V. Preiss
 Polyphase limestone dikes in the Oamaru Region, New Zealand, by Douglas W. Lewis
 An occurrence of "brick pattern" oscillatory ripple marks at Mono Lake, California, by Paul D. Komar
LUCY E. BIRDSALL

★ ★ ★

NEWSLETTER**Pacific Section A.A.P.G.****P.O. Box 17486 Foy Station****Los Angeles, California 90017**



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

VOLUME 28

JUNE/JULY, 1974

NUMBER 6/7

CIRCUM-PACIFIC Energy and Mineral Resources Conference

I thank the Pacific Section of the American Association of Petroleum Geologists for giving me this opportunity to present to its members in this NEWSLETTER up-to-date information on the forthcoming Circum-Pacific Energy and Mineral Resources Conference to be held in Honolulu, Hawaii, August 26-30, 1974.

Never in history has the need for an international energy conference been so readily evident as now, and never before have so many eminent earth scientists offered their experience, skill, and know-how to advance the exploration and development of the energy and mineral resources of the Pacific region.

This is an extraordinary meeting! It is truly interdisciplinary and international in scope; instead of being centered only in the Circum-Pacific countries as expected, interest is now worldwide. Countries in areas far removed from the Pacific are planning to send representatives.

AAPG is fortunate to share cosponsorship with the Committee for Coordination of Joint Prospecting for Mineral Resources in Asian Offshore Areas (CCOP; United Nations Development Program), and the Pacific Science Association (PSA). In addition, 43 societies are cooperating organizations.

The annual meetings of AAPG are set five to six years in advance so that the host society has the opportunity to work and plan for many years. This is not the case for the Circum-Pacific Conference. The AAPG Executive Committee gave final approval for the meeting in October 1972, allowing only 23 months to organize and plan a conference that may be one of the most important international scientific meetings ever held.

You may ask the question, "Why is
(continued on page 2)

NATIONAL AAPG

Proposed regulations requiring the compulsory surrendering of privately gathered geophysical and geological information on the Outer Continental Shelves to the U.S. government would not be in the public's best interests, Merrill W. Haas, president of the American Association of Petroleum Geologists, has testified before the Interior Department.

"It is the experience of this association of professional explorationists that our free enterprise system has operated in a manner that has established the worldwide standard for efficient and effective exploration," he stated. "Under this system, individual interests developed new technology and information which is not disclosed to other private or public interests but is retained for their own proprietary use. This system has served the public interest well."

In testifying against the proposal, Haas pointed out that:

✓Disclosure of well data to the public sixty days after completion will retard the drilling of wells adjacent to open acreage. This is incompatible with the goals of Project Independence.

✓Disclosure of geologic and geophysical information, as proposed, will retard discovery of resources but not conserve known resources. Conservation of resources will best be accomplished by allowing market forces to play their proper role in the balancing of demand and supply for oil and natural gas.

✓The record shows that OCS sales are already intensely competitive. A steady growth has taken place in both the number of bidders and those acquiring acreage.

✓Sales of leases by competitive sealed bids assure top value. The wide range of bids on any one tract reflects the different assessments of tract value by individual operators.

(continued on page 5)

Northern California

July 1, 1974. Using the granitic launch pad built during the past year by Tom Wright and Co., astronaut HERB SAWYER and a new crew blasted off into the 1974-1975 year of Northern Cal's orbit, star-studded with future plans, hopes and programs.

The last meeting of the old year survived the agony of Leopard Cafe's banquet menu only through an illustrated presentation of oil exploration in Argentina by our new president Herb himself who put in over 26 years of pampas punishment in South America before retirement in 1966. Born in Chile, educated in South America and Stanford (graduated 1937), Herb worked as geologist in Venezuela with Creole for 17 years, then as exploration manager for Esso for 11 years in the West Indies, Central America, and Argentina. His retirement present was a fling at North Sea geology. After tapering off with consulting jobs in Latin America and Libya, he has settled down in Los Altos, California with great benefit to NCGA.

Our new Executive Committee can boast of that well known trio TOM, DICK, AND HARRY—(respectfully) Wright, the Past Pres.; Jones the new money man; and Anisburg the Veep. More poop on them next time. In addition, Ernest Rich and Don Ziegler lend counsel and prestige; Dave Pfeiffer apprentices for next year's head man; and your nescient scribe listens, learns, and logs lingo in the meeting house.

* * *

How to be a Secretary offers the chauvenistic male a challenge. So, for advice we go to the office of a recog-

(continued on page 2)

NORTHERN CALIFORNIA ...

(continued from page 1)

nized expert in the USGS, the talented, charming Pauline Drohan, secretary to Alaskan Branch Chief George Gryc. She graciously responded and the impressive words of administrative wisdom now taped into our unconscious should result in a better secretarial job at less cost per sec to the members. Hope they appreciate it.

* * *

All aboard for the Circum-Pacific Energy and Mineral Resources Conference in Honolulu August 26-30, 1974. Land of enchantment, pineapple, sugarcane, bikinis and hula hips titillating the imagination. Plumeria and Hibiscus in full bloom. Serrated volcanic skyline standing up like an oil painting of dense, brilliant vegetation on knife-like ridges plunging to the sea. A program of papers by outstanding geologists will revive your languored ears. Make your economy reservations with Group Travel Unlimited, P.O. Box 2198, Honolulu, Hawaii 96805.

* * *

NCGS program plans for the coming year include a committee organization of Public Service, Membership, Awards, Activities, and the Continuing Education program set up by National AAPG. Meetings once a month on announcement, beginning in September, will include two AAPG distinguished lectures. A wife's night at the Golden Gate Academy of Science, and at least one field trip will provide added yum-yum.

* * *

Are there no stones in heaven

But what serve for the thunder?

—Shakespeare, OTHELLO

OTTMAR F. KOTICK, Scribe
25911 Elena Road
Los Altos Hills, CA 94022

PACIFIC SECTION SEPM

The results of the Executive Officers' election in May and June, 1974, revealed the new Executive Committee to be as follows:

President:

Harry TerBest, Jr. Texaco Inc.

Vice President:

Dave Ford — Union Oil Co.

Secretary:

Ann Tipton Donnelly — UCSB

Treasurer:

Kris McDougall — Union Cil Co.

CIRCUM-PACIFIC ...

(continued from page 1)

this Conference so important?" This is answered by the Conference objectives, which are to advance the exploration and development of the total-energy and mineral resources of the Circum-Pacific area, and to insure their compatibility with the environment. This can be achieved by (1) focusing attention on present and future availability of energy and mineral resources in land and offshore areas bordering the Pacific Ocean; (2) considering where and how exploration efforts may be most effectively directed; (3) by enlisting the experience, skill and special know-how possessed by specialists in the Circum-Pacific region; and (4) by encouraging the free exchange of pertinent ideas and information among Circum-Pacific countries toward solving common problems of energy and mineral resources.

A technical program has been formulated in which all countries bordering on the Pacific Ocean have been invited to present papers on the success of exploration and development programs aimed at filling their present and future energy and mineral needs, as well as on the status and effectiveness of current programs designed to increase production and reserves of energy and mineral resources.

A presentation of the geologic setting of the Circum-Pacific region and the relation of economic concentrations of energy and mineral resources to this setting will introduce the technical program. The substance of the Conference program will be discussion of energy and mineral resources by geologic regions, and by selected topics. The energy discussions will include oil and gas, oil shale, tar sands, coal, and geothermal, solar, and nuclear energy. The mineral topics will include both ferrous and nonferrous metallic minerals, nonmetallic minerals, and ground water.

Approximately 110 papers on the preceding subjects will be presented in a five-day program that still leaves room to enjoy your visit to Hawaii. You will be able to see not only beautiful Honolulu and Oahu Island, but also other islands of the Hawaiian chain by means of guided scientific field trips.

The Circum-Pacific Map Project is being organized by the AAPG in connection with the Energy and Mineral Resources Conference. The purpose of the project, which will require several years of cooperative work, is to bring together in a single inte-

grated series of maps the latest information on geologic features, mineral, geothermal, and hydrocarbon resources of the Pacific region. In doing this, the AAPG and other participating organizations hope to integrate the geologic structures of land with those newly discovered beneath the ocean through oceanographic research to relate the known mineral and energy resources to these structures; and to show possible targets for future exploration. It is hoped that compilation of the maps will encourage more research on the deformation of the earth's crust as exemplified by the major belts of volcanic and earthquake activity which encircle the Pacific.

The importance of this Conference cannot be overemphasized. Companies and independents should make immediate plans to send to the meeting as many of their earth scientists as possible.

Make your plans now to attend. Please direct your inquiries for airline, hotel and other information to Group Travel Unlimited, P.O. Box 2198, Honolulu, Hawaii 96805.

Hope to see many of you in Honolulu!

MICHEL T. HALBOUTY
General Chairman

ARCTIC GEOLOGY

The Arctic regions of the world must be producing 20 to 25 million barrels of oil per day by 1990 to meet world energy requirements, according to one of the authors of "Arctic Geology," recently published by The American Association of Petroleum Geologists. The book treats the scientific, economic, environmental, and political problems which must be solved to meet this goal in a comprehensive suite of 70 papers, including 24 by Russian scientists, covering Alaska, Canada, Siberia, European Russia, Greenland, Iceland, and the Nordic countries.

The thorough coverage given the geology, geophysics, and historical development of this vast area of more than 14 million square miles is supplemented by several papers of interest to those outside the fields of geology and geophysics.

The 747-page book, number 19 in the AAPG's Memoir series, was edited by Max G. Pitcher, Denver, and can be ordered from the AAPG, Box 979, Tulsa, Okla. 74102. Price is \$30. A comprehensive index is provided and each paper includes an extensive bibliography.

Honorary Life Memberships Awarded

At the Thursday morning session of the San Diego Convention honorary memberships were awarded to the following four distinguished Pacific Section members:

John E. Kilkenny
Henry H. Neel
Gordon B. Oakeshott
J. Douglas Traxler

Coast

NO REPORT.

Northwest

NO REPORT.

San Joaquin

NO REPORT.

PACIFIC SECTION — AMERICAN ASSOCIATION PETROLEUM GEOLOGISTS

Executive Committee

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(805) 646-4512
Vice-President JOHN A. CARVER
(805) 327-7351
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(805) 325-5746
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(213) 435-6681
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(213) 485-2121
Editor JOHN W. LIDSTROM
(213) 380-5830

Newsletter Staff

Editor JOHN W. LIDSTROM
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Membership Secretary JUDY HUGHES

Associate Editors

Alaska DICK E. ATCHISON
(907) 272-5417
Coast RICHARD L. STEWART
(805) 642-0376 or 963-6404
Los Angeles TOM W. REDIN
(213) 945-1221
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(415) 894-0687
Northwest
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(916) 482-8490
San Joaquin HAROLD SUGDEN
(805) 399-2961
Recommended Reading LUCY E. BIRDSALL
(213) 688-2850

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Material for publication and requests for pre-view copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3550 WILSHIRE BLVD., L.A., CALIF. 90010.

Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

MEMORIALS

On June 30, 1974, a Hiller FH 1100 crashed in the Brooks Range about 50 miles southeast of Umiat, Alaska, instantly killing four Texaco geologists and their pilot.

The victims were identified as:

John Peter Hackett, Jr., age 27, of Whittier, California. He joined Texaco as a geologist in 1971 and was a graduate of Colgate University with a masters degree in geology from the University of Southern California. John had just been elected Treasurer of the Los Angeles Basin Geological Society. He is survived by his wife, Elizabeth Anne.

Kathryn Ann Lamon, age 23, a geologist from Santa Monica, California, who has been with Texaco since last July. A 1973 graduate of Stanford University with both bachelor of science and masters of science degrees in geology. She is survived by her parents Mr. and Mrs. Lonnie G. Lamon of 2251 Sampson Street, Marysville, California.

Leroy Carson Maynard, age 29, who began work for Texaco as a geologist in May. He graduated from the University of Oregon with a masters degree in geology in June 1971. Originally from Salem, Oregon, he is survived by his wife and daughter.

Steven Fredrick Grings, age 21, a geological field assistant who began work on a temporary summer basis beginning June 7 after graduating from the University of Southern California. He is survived by his parents, Mr. and Mrs. William Grings of 7806 Cowan Avenue, Los Angeles, California.

Alfred B. Garelicks, age 37, the pilot, employed by Alaska Helicopters Inc., Anchorage. He is survived by his wife and daughter who reside in Millbrae, California.

JOSEPH JENSEN

Joseph Jensen, a leader in California and Western water development programs for more than 30 years, died July 8, 1974, after a lingering illness. He was 87.

Often referred to as the Southland's "Mr. Water," he was chairman of the board of directors of the Metropolitan Water District of Southern California, a post he had held since 1949.

Mr. Jensen began his career as a geologist for the Tidewater Oil Co., now Getty Oil. He became Getty's chief petroleum engineer and was assistant to the Western general manager before his retirement in 1955.

Mr. Jensen leaves his wife, the former Lois Wallace of Salt Lake City; two sons, Joseph Wallace of San Francisco and John Henry of Beverly Hills, and six grandchildren.

MINUTES OF ANNUAL BUSINESS MEETING

AAPG—Pacific Section San Diego—Sheraton Hotel

The official Pacific Section Business Meeting for 1974, was called to order by the President, Kempton B. (Pete) Hall at 5:00 p.m., Friday, April 26, 1974; Mission Room, Sheraton Hotel, San Diego, California.

R. J. Hindle, was appointed Secretary Pro-tempore, in the absence of James L. O'Neill.

It was moved and seconded to dispense with the reading of the minutes of the last executive meeting.

William A. Adent, Treasurer, introduced W. Ken Graves, C.P.A., who is the accountant for the Association. The report of the current Financial Statement was read in part by Mr. Adent. The Financial Statements for the Association, dated December 31, 1973; and March 31, 1974, plus three Treasurer's memos covering the current, 4/24/74 balance and the 1974 Convention Account as of 4/19/74, and Affiliated Society Accounts as of 4/24/74, were submitted by Treasurer. These reports are attached as part of the minutes of the annual meeting.

The report was approved and seconded as presented.

It was moved and seconded to commend Don Minich and his Convention Committee, and particularly the hard work of the Geology Students of the San Diego area. Well done!

The results of the election of the 1974-1975 AAPG Pacific Section Officers were announced by "Pete" Hall, as follows:

President, William J. Hunter
Vice President, Donald L. Ziegler
Secretary, Stanford Eschner
Treasurer, Scott L. Knight

It was recommended and seconded that the ballots be destroyed. The President directed that such action be taken immediately.

The announcement was made that the 1975 (50th Annual Meeting) Convention of the Pacific Section, AAPG, jointly with the SEG and SEPM, would be held April 23 through 26, 1975, on board the Queen Mary, in Long Beach, California.

(continued on page 4)

MINUTES...

(continued from page 3)

The discussion was opened on the proposed new AAPG Pacific Section Constitution as published in the *PACIFIC PETROLEUM GEOLOGIST NEWSLETTER*, Volume 28, Number 4, April 1974, pages 5 and 6.

The section on changes of the current Constitution was read, noting "May be amended by a mail ballot." The proposed Constitution with the amendment as proposed were approved, and seconded with a unanimous vote of the members present at the meeting.

It was proposed and seconded that ballots be sent out to all members in good standing to approve or reject the entire document with reference to the printed proposed Constitution, PPG, *NEWSLETTER*, for April 1974, Volume 28, Number 4. This with the aim of reducing and simplifying the balloting.

Ed Hall noted that some of the Judge's score cards were not returned and thus, the tabulation of results for the A. I. Levorsen Memorial Award could not be announced. It was the decision of the meeting that the results and winner of the award would be announced at the Dinner-Dance, April 26, 1974; to follow the meeting at 6:30 p.m., approximately.

Being no other business, it was moved; seconded, and approved that the 1974 Annual Business Meeting be adjourned.

Respectfully submitted,
ROBERT J. HINDLE
Secretary, Pro-tempore

POSITIONS AVAILABLE

International Recruiting Systems, Inc. (Agency) has many positions available in the petroleum and natural gas industry.

We need, with various lengths of experience:

Geologists
Geophysicists
Petroleum Engineers
Drilling Engineers
and in fact all types
including pushers.

The Science and Engineering group of International Recruiting Systems, Inc. (Agency) is Frank Fuller and Milt Golub; physicist and engineer, teamed for client and candidate recruitment.

Two company airplanes and two company pilots facilitate recruitment capability.

MILT GOLUB
International Recruiting Systems
7100 Hayvenhurst Avenue
Van Nuys, CA 91406
(213) 782-0525

Alaska

Greetings again from Alaska — the step-child state. Land of long shadows and long suffering. Where the politicoillogical bureaucrats and the more rabid ecocentric environmental carpet baggers strive to reach the intelligence plateau of a spruce hen. Sure would be the Great Land — if we could just get settled who owns it.

Meantime, we've just about mired our way through break-up. For the uninitiated, this is when the white snow evolves through slick ice into mud, the streets and roads vie aggressively for the "Chuckhole of the Year" award (which as I explained last year is a bent shock absorber mounted on a busted spring). Also, the melting snow berm along some favored lanes near certain cultural spa's leaves a junk moraine with enough beer cans to recycle into a battle ship, and you find out where all of the dogs in your area have been going all winter. Fortunately, break-up is about two weeks early this year and as all of you ex-sourdoughs know, this means we will have a long dry summer and lots of fish.

The Alaska contingent at the National AAPG Convention was small, probably due to various rumored company policies concerning trips "outside" during break-up vs. rate of return. However, the fortunate few seemed to have an elephant time, enjoyed ourselves rhinocerosly, and incidentally were exposed to a mighty fine selection of papers. One paper in the environmental category was presented by AGS's Lidia Selkregg and Dick Buffer. To make up for missing it (we done bought the book), here's a plug. The "Environmental Atlas of the Greater Anchorage Area, Borough, Alaska" like they said is a guide for urban planning, and also a model for similar studies in other baliwicks. Just in case some of you all want to bribe your favorite Public Works or Planning Board hosses — you can get a copy by sending \$17.50 to:

University of Alaska
Environmental Information and
Data Center
707 "A" Street
Anchorage, Alaska 99501

The Geological Society in San Antonio earned a sincere back-slapping hand shake in my opinion, for a job well done. Sure is a beautiful Convention Center and City, but too bad that it doesn't cool off enough to ride a snowmachine down the San Antonio River. That would be almost as much fun as ripping across Al Sisson's yard.

Meanwhile, back at Rancho AGS, on 4-25, AAPG Distinguished Lecturer, Mr. C. H. Bruce, Mobil, Houston, presented "Pressured Shale — Mechanism for Development of Regional Contemporaneous Faults." Found out this wasn't the abstract, but just the title of a very interesting, well illustrated and presented talk — thanks hoss, we enjoyed it.

We also presented our old buddy, Dock Adams, with a going away plaque — just a little one since he wasn't going far — just down to Balikpapan. Couldn't help but notice how much longer Dock's face was when he left than when he got here. I'll never tell whether it was from emotion due to leaving such a good bunch as we AGS are — or hirsute. Just a word of advice Dock, as long as those Borneo head-hunters don't grab your head by the ears — you got 'em Houdinied.

We also bon-voyaged Bruce Clardy and Dave Abrahamson who are going to oil-shale and elk hunt in Colorado. Rumors are that they've tarried so much on the ski slopes that they are already adjusted to the altitude.

Sure sorry I'm going to miss the Pacific Section Convention in San Diego, this year, but I'll probably hear all about it when Ernie Lian gets back and recuperates from the warm sunshine, baseball, and Virgin Marys.

Up to here was last month's effort which somehow got included out. Since then, Pat Dobey, Chief Petroleum Geologist for the Alaska Geological Survey presented a well-illustrated resume of "Alaska's Energy Resources." This is an almost completed report by the Alaska Geological Survey about the potential location of several resources such as oil, uranium, etc., and also a series of overlays that eventually cover up the State with our many types of land withdrawals. We got so many different lock-ups that he almost ran out of colors. It turns out that the percentage of land presently available for all types of exploration is just about equal to the percentage of intelligence used in determination of withdrawals — about 4% Like I been toling ya — we're enjoying about all the "Cheechako" help we can stand.

Til next time, I hope all you Mud-ders had a happy May 12, happy hang-over to you Papas on June 17, salutations on Flag Day, and many collectors of trivia might enjoy a ball game on June 19 in honor of the first organized baseball (1846).

Buenos Snowshoes,
DICK E. ATCHISON

SUMMARY OF LEGISLATION RELATED TO GEOLOGISTS

from

Geological Coordination Council Meeting • May 17, 1974 Petroleum Club, Long Beach

S.B. 1372 — Alquist et al. Requires minimum earthquake standards for emergency service buildings. Amended six times. Requirement for review no longer requires an engineering geologist.

S.B. 1632 — Alquist. Amendment to old bill. (Dam Safety Act). Waives inundation study requirement for certain dams.

S.B. 1671 — Biddle. Bill awards \$2,500 to defendant in case of a frivolous suit against Reg. Engineers and Geologist. No support in committee from geologists. Good Bill. Letter to judicial committee would help.

S.B. 1729 — Alquist. Creates seismic safety commission. Abolishes building and strong motion instrument boards. Rewritten from previous report, suggest letters to be written regarding need for at least one Geologist.

S.B. 1888 — Cusanovich. Exempts Reg. Engineer, Geologist, etc. from Registered Inspector Law.

S.B. 1983 — Alquist & Rodda. Requires certified Engineer Geologist report for sub-divisions where hazardous conditions might exist. Good Bill.

S.B. 2029 — Alquist. Requires preparer of Environmental Impact Report to identify himself and that a report be prepared on all significant projects.

S.B. 2148 — Alquist. Exempts licensed Engineer, Geologist, Architects etc. who voluntarily respond to emergencies within 72 hours of an earthquake from liability. Good Bill.

S.B. 2149 — Alquist. Requires General Services Dept. to develop a seismic design standard for construction. Will not be mandatory to local jurisdictions.

A.B. 1575 — Warren et al. Requires EIR. Establishes new five-man commission. "State Energy Resources Conservation and Development Commission." Provides for forecasting energy demands and supplies. Requires power sites be approved. Requires a program of research, development and technology in energy supply. Various other provisions, very lengthy, bureaucratic, not a good Bill.

A.B. 3522 — Antonovich. Requires that school site investigation be conducted by engineers and geologists, rather than the current requirement of "competent personnel." *Defeated* in Committee 13 to 4. Assemblyman Burke (Huntington Beach) reportedly stated that engineers could make these tests as well or better than geologists.

NOTE: Although this was an engineering geology bill, all geologists lose when they are supplanted by engineers.

A.B. 3820 — Antonovich. Revises provisions relating to subdivisions to require a geological report. Will not preempt stricter City-County provisions. (Similar to S.B. 158 which died in Committee.) Good Bill.

DENNIS A. ALLEN

THE PRESIDENT'S CORNER:

Swan Song—"The old order changeth yielding to the new." Congratulations and consolation to the new officers of the Pacific Section! May your tenure be free of petty trials and tribulations and filled with productivity and success.

My utmost appreciation is hereby expressed for all the support I have received from the many members of the association, without which it would have been impossible for your executive committee to function. Special thanks are extended to my executive committee, to the chairmen of the various organizational committees, to Art Spaulding and John Minch together with all of the hard working convention committee for their efforts to make the San Diego meeting an outstanding success; also to J. Douglas Traxler, the untiring Pacific Section Ambassador at large for his advice, counsel and special assignment functions.

I am pleased to report the Pacific Section appears to have survived my term of office without apparent serious adverse effects, thanks to the continuing support of its loyal membership.

With renewed vigor under the newly elected leadership and with the current upswing in exploration activities, I predict a bright and rewarding tomorrow for the section, membership and your new slate of officers.

Again with many thanks, I salute you one and all."

K. B. "PETE" HALL

NATIONAL AAPG...

(continued from page 1)

Haas declared that if the stated objectives are the only reasons for the proposed changes in the regulations, the changes are not justified. "If there are other objectives than those stated, such as moving toward a Federal Oil and Gas Corporation, this objective should be stated and debated on its merits," he said.

"The collection of data, as proposed, would be the wedge for additional political pressures to establish a Federal Oil and Gas Company," he said. "Under the proposals, a federal corporation would have, in addition to other advantages over its competition, access to all the latest technical information provided by the entire private oil industry free of cost."

Haas pointed out that a geological interpretation is a working hypothesis displayed on a map and remains so until tested by the drill.

"It should be valued and protected as a copyrighted document—not to be taken away and distributed to those who request it," he said. "Oil is found in the minds of men, and it is an infringement on individual rights to force the disclosure of private ideas. As professional geologists, we gain a livelihood by generating ideas and recording them in a workable and comprehensive form. These recorded ideas belong to those who have paid for them."

Haas said that the proposed disclosure rules are particularly disturbing at this time.

"The industry has been providing a tremendous quantity of factual, confidential information to the Department of the Interior, the U.S. Geological Survey, and the Bureau of Land Management, and the nation's very large offshore operations have been carried out in a highly successful manner," he declared. "The AAPG has always viewed the USGS and the BLM as independent, professionally competent organizations that have not been diverted by political pressures of the moment. We sincerely hope that they will not yield to the obvious political pressures at this time."

Pacific Section PICNIC

The 1974 Pacific Section AAPG Picnic was held at Britt Park, Piru, last June 7, 1974. One hundred seventy-six barbecued steaks were served with Dave Totten's especial chili beans and salad. The five barrels of beer that were consumed, almost exceeded the record 2,373 cans served in 1970. The old-timers noted that the sapling elm trees they planted some time ago, now shade the whole parking lot, and the horseshoe stakes now are officially 10 feet farther apart than they used to be.

The Golf Tournament was held at Elkins Ranch, south of Fillmore. Scott Knight was able to rig the starting times so that the players were able to survive the traps as usual. Some 70 semi-pros and "rank" amateurs fought the hazards with the following results:

1st Low Gross & Frank Yule Memorial Travel Trophy—*Lane Howell*
2nd Low Gross—*Don Padick*
1st Low Net (1st Flt-Gross below 100)—*Jim Creed*
2nd Low Net (1st Flt-Gross below 100)—*Milt Lewis*
1st Low Net (2nd Flt-Gross over 100)—*Phil Kistler*
2nd Low Net (2nd Flt-Gross over 100)—*Scott Knight*
High Gross—*Ray McPherson*
Most

2's—*Don Padick*
3's—*Elmer Olson*
4's—*Lane Howell*
5's—*Tom Woodward,*
Elmer Olson

High Hole—*Jim Creed*
Longest Drive on #4—*Bill Winham*
Closest to Pin on #7—*Kermit Giddens*
Within Circle #16—*Ken Fox, Woody Harris, Ray Burns, Bill Winham*

San Emigdio Creek was the destination of the non-golfing contingent. Arch Warne displayed several geologic maps and cross-sections that you have to see to believe (some skeptics are still mumbling in their beer). The whole contingent of 60 walked to the axis of the Devil's Kitchen syncline, and heard the latest on the Eocene history of the area from Tim Cross, of USC. Ron Waddell was parked under the cottonwood tree when the hikers returned for iced beer and sandwiches. Incidentally, one anonymous company driver acknowledges the advantages of Tenneco's car radio communication system when they were patched through to the Ace Towing Service.

The success of this picnic also required the support of corporate and

service company contributors. The gratitude of the participants and the Pacific Section AAPG membership is expressed by the toast "We thank you all." Our supporters were:

Peter Bawden Drilling, Inc.
R. B. Montgomery Drilling, Inc.
Borst & Giddens Oil Well Logging Service
Bendix-United Geophysical Corp.
Munger Oil Information Service, Inc.
Oilwell Research, Inc.
Schlumberger, Ltd.
Anderson, Wilcoxon and Assoc.
Hunnicut and Camp Drilling, Inc.
Cal Pan Am Well Logging Co.
Don Padick Oil Well Logging Strata-Log
Exploration Logging of USA, Inc.
Burns Geological Exploration Inc.
Global Marine, Inc.
Calada Materials
Byron Jackson, Inc.
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General Oceanographics, Inc.
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United Directional Services
Santa Fe International Corp.
Dresser Atlas
Stuart Ross Smith Logging Co.
Geologic Engineering Service
Johnson Velocity Surveys
Christensen Diamond Products
Core Laboratories, Inc.
Meadow Construction Co.
Reese Sales Co.
Strata-Graphic Co.

The next time you have the opportunity to talk to our supporters, thank them for their contribution. They'll appreciate it, and so will we.

DOUG TRAXLER

Sacramento

During the month of May, the Sacramento area was a time for softball, golf and travelogues. On May 10, a softball tourney and barbecue were jointly held by the American Petroleum Institute and Sacramento Petroleum Association at Elk Grove Park.

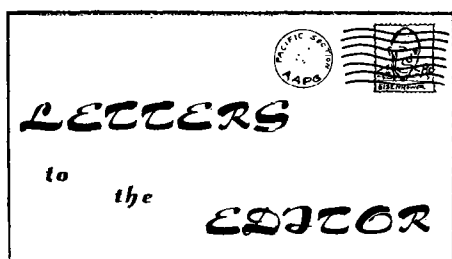
Sixty members and guests were present for the afternoon softball tourney featuring the Sacramento "Gasers" and the Woodland-Rio Vista "Dusters" teams. Sacramento eventually won the hard fought game. Following the tourney the players and spectators enjoyed a great steak dinner with the usual ample supply of beer and wine. The success of the event should lead to the making of an annual meeting for both societies.

The SPA held its annual Golf Tournament and Barbecue on May 24, at the Yolo Flyers Club in Woodland. After golf a prime rib dinner was featured along with the awarding of door prizes. Renewing acquaintances and friendly poker games combined to again make the event a tremendous success. The officers and committee members of the API and SPA are to be congratulated for the great success of both events.

The SPA had three travelogues presented by members during the month of May. Those presenting the talks were Fred Harris, Western Mud, on Mexico-Baja; Sarge M. Reynolds, Consulting Geologist, on the Mediterranean area, and Roland Bain, Consulting Geologist, on Hong Kong. Each presentation was accompanied by a colorful array of slides.

TERRY PLUMB





Los Angeles

Doug Traxler reports the newly elected Los Angeles Basin Geological Society House of Delegates Representatives are as follows:

Delegates: Louis J. Simon
Phillip S. Kistler
Robert N. Hacker

Alternates: Louis Canute
Bruce Barron
William A. Adent
Eric C. Jacobson
Howard T. Anderson

Doug also reports that Burmah Oil and Gas, alias Signal Oil and Gas, is sending Ted Ehring to Aberdeen, Scotland, for a short R & R on the North Sea. How about bringing back a bottle of Scottish schnapps for our raffle, Ted! Burmah Oil's mining geologist, Norm Grant, is now stationed full time in the Long Beach Office.

Our July meeting of the LABGS will be at noon on Thursday, July 25, 1974, at the Taix Restaurant on Sunset Boulevard. The guest speaker is tentatively Jim Wilcoxson of Anderson and Wilcoxson who will speak on "Recent Advances in Nannoplanktonic Correlations." Watch for the announcement cards for a possible change in program.

A long overdue note from our well traveled member, Jean B. Senteur de Boue, has me a little puzzled, but I'll quote directly. "To all users of Denture Sticktite: Mr. Senteur de Boue regrets that his product far exceeded his most optimistic expectations. He is working around the clock to develop a tasty and effective release solvent. In the meantime, he asks his friends to be patient."

I recently received a note from Ed Hall, the President Elect of the Coast Geological Society, wherein he mentions a public hearing held by the South Central Coast Regional Coastal Commission to discuss the geological hazards element of the official State plan for Proposition 20. If possible, it might be a good idea for the PPGN to publish, in advance, a notice of these meetings for all the State Coastal Commissions. Perhaps one of our Pacific Section members in Sacramento could help out in this matter.

Yours very truly,

TOM REDIN

AAPG OFFICERS ANNOUNCED

John E. Kilkenny, a vice president of Union Oil Company of California, Los Angeles, has been chosen as president-elect of the American Association of Petroleum Geologists, it was announced by Dr. Daniel A. Busch, current AAPG president. After serving as president-elect for a year, Kilkenny will assume the presidency on July 1, 1975.

Kilkenny, a native Californian, held positions as a geologist and executive with the Texas Company, Superior Oil, Olson's Scouting Service, Pure Oil, and Chancellor-Canfield Midway Oil prior to joining Union.

The 1974-75 president, who will take office this July, is Merrill W. Haas, a vice president of Exxon Co., USA, Houston.

Duncan A. McNaughton, consulting geologist of Dallas, was elected vice-president to serve a one-year term. His experience includes positions with the Canadian Geological Survey, Texas Petroleum Co., the University of Southern California, Gulf Oil and two other consulting firms. He is a native of Canada.

Elected to a two-year term as treasurer was George C. Grow, Jr., a consultant from Newark, N.J. He formerly held positions with Standard Oil Co. of Venezuela, Peoples Natural Gas Co. of Pittsburgh, and Transcontinental Gas Pipe Line Corp.

Bernold M. Hanson, president of Hanson Exploration Co., Midland, Tex., continues his two-year term as secretary, while Frank E. Kottowski, director of the New Mexico State Bureau of Mines, Socorro, N.M., will continue to serve a two-year term as editor.

At the recent AAPG Annual Convention held in San Antonio, Tex., Hugh N. Frenzel, chief geologist for Flag-Redfern Oil Co., Midland, Tex., was elected chairman of the House of Delegates and will also serve as a member of the Association's 1974-75 Executive Committee.

AAPG is the world's largest geological organization, with members in all 50 states and more than 80 foreign countries. Headquarters are in Tulsa, Okla.

I thought the Pacific Section membership would be interested in the results of the viewer response to the question recently debated on the television program, "The Advocates": "Should the government create a Federal Oil and Gas Corporation to compete against private industry?" Participants in the program included John Swearingen, C. Jackson Grayson, and Charles Walker opposed, and Senator Adlai Stevenson, Lee White and former Senator Fred Harris in favor.

Nationwide, viewers *opposed* FOGCO by a 3-to-1 margin:

OVERALL TOTAL

In Favor	1937	25%
Opposed	5785	75%

Below is a breakdown by States that might be of interest to you:

	FAVOR	OPPOSED
California	314	455
Louisiana	3	121
Maine	3	15
New York	213	270
Oregon	38	44
Texas	72	1412
Washington	105	134

FRANK N. IKARD
President, API

DID YOU KNOW

Effective immediately my new association and position as manager of domestic petroleum exploration will be as indicated below:

C. K. Ham & Co.
559 San Ysidro Road
P.O. Box 5412
Santa Barbara, California 93108

Partners in the company are Jack E. Clare, Burdette A. Ogle, James L. O'Neill and myself.

With respect to all foreign consulting work relating to the field of hydrocarbons with emphasis on Latin America, I will remain associated with the firm of Merrill, Ogle, Babson & Wallis, Inc., at the same address as indicated above.

CORNELIUS K. HAM

RECOMMENDED READING

CALIFORNIA DIVISION OF MINES AND GEOLOGY

California Geology, vol. 27, no. 5, May 1974

Chemical stabilization of landslides by ion exchange, by H. S. Arora and J. B. Scott

NEVADA BUREAU OF MINES AND GEOLOGY

Report 19: Guidebook to the geology of four Tertiary volcanic centers in Central Nevada (Prepared in conjunction with Geological Society of America Cordilleran Section Meeting, Las Vegas, Nev., March 1974)\$3.50

Bulletin 72: Correlation of Great Basin stratigraphic units. Prepared by members of the Stratigraphic Committee of the Eastern Nevada Geological Society; Ralph L. Langenheim, Jr., and E. R. Larson, Co-chairmen\$4.00

Bulletin 81: Radioactive mineral occurrences in Nevada, by Larry J. Garside\$6.00

STATE OF WASHINGTON.
ENERGY POLICY COUNCIL (213 First Ave. North, Seattle 98109)
Energy in the State of Washington. January 1974.

U.S. GEOLOGICAL SURVEY

Professional Papers 731: Geology of the Pulga and Bucks Lake quadrangles, Butte and Plumas Counties, Calif., by Anna Hietanen \$3.45

Bulletin 1386: Silurian, Devonian, and Mississippian formations of the Funeral Mountains in the Ryan quadrangle, Death Valley region, California, by J. F. McAllister\$1.60

Water Supply Paper 2027: Analog model study of the ground-water basin of the upper Coachella Valley, Calif., by S. J. Tyley\$1.05

MAPS

HA-473: Floods in Punaluu-Hauula area, Oahu, Hawaii, by T. M. Ushijima and C. J. Ewart75¢

HA-477: Selected hydrologic data in the upper Colorado River basin, by Don Price and K. M. Waddell \$1.00

I-745: Geologic map of the Twin Buttes quadrangle, southwest of Tucson, Pima County, Ariz., by J. R. Cooper75¢

I-747: Map showing areas of estimated relative amounts of landslides in California, by D. H. Rudbruch and K. C. Crowther75¢

I-756: Geologic map of the Moores Station quadrangle, Nye County, Nevada, by E. B. Ekren, E. N. Hinrichs, W. D. Quinlivan and D. L. Hoover\$1.00

I-787-C: Construction materials map of Anchorage and vicinity, Alaska, by H. R. Schmoll and Ernest Dobrovolsky75¢

MF-550: Isopleth map of landslide deposits, southern San Francisco Bay region, Calif., by R. H. Wright and T. H. Nilsen50¢

MF-552: Preliminary geologic map of the area of the Carlin and Blue Star gold deposits, Eureka County, Nev., by A. S. Radtke50¢

REPORTS AVAILABLE ONLY

THROUGH NTIS (U.S. Dept. Commerce, National Technical Information Service, Springfield, VA 22151)

PB-229 947/AS: Magnetic tape containing results of semiquantitative spectrographic analyses of the magnetic fractions of 680 Alaskan alluvial concentrates, by G. W. Day, W. D. Crim, Sam Fosenblum, W. C. Overstreet, and A. L. Larson. 1974. Magnetic tape. \$97.50 (domestic) \$122.50 (foreign)

PB-230 607/AS: Magnetic tape containing oil shale Fischer assay data for coreholes in the Piceance Creek basin, Colorado, by J. K. Pitman. 1974. Magnetic tape: \$97.50 (domestic); \$122.50 (foreign)

PB-230 961/AS: Average oil yield tables for oil-shale sequences in core from the northern part (Tps 1N-2S) of the Piceance Creek basin, Colorado that average 15, 20, 25, 30, 35, and 40 gallons per ton, by J. K. Pitman and J. R. Donnell. 1974. 208 pages\$13.50

PB-230 962/AS: Average oil yield tables for oil-shale sequences in core from the central part (Tps 3S-4S) of the Piceance Creek basin, Colorado that average 15, 20, 25, 30, 35, and 40 gallons per ton, by J. K. Pitman and J. R. Donnell. 1974. 432 pages\$24.75

PB-230 963/AS: Average oil yield tables for oil-shale sequences in core from the southern part (Tps 5S-11S) of the Piceance Creek basin, Colorado, that average 15, 20, 25, 30, 35, and 40 gallons per ton, by J. K. Pitman and J. R. Donnell. 1974. 468 pages\$26.50

PB-231 185/AS: Principal facts, plots, and reduction programs for 1753 gravity stations in the southern Sierra Nevada and vicinity, California by H. W. Oliver. 90 pages\$7.75

U.S. BUREAU OF MINES (Order from the Government Printing Office, Washington, D.C. 20402)

Information Circular IC 8634: Assessment of U.S. Petroleum Supply with varying drilling efforts, by T. M. Garland, M. Carrales, Jr. and J. S. Conway. 36 pages. (GPO Catalog No. 128.27:8634.)75¢

LUCY E. BIRDSALL

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

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American Association of Petroleum Geologists

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NUMBER 8/9

REVIEW OF ACTION ON VARIOUS ELEMENTS OF THE COASTAL ZONE CONSERVATION ACT

Geology Element

Nine "elements" are being written by the various sections of the Coastal Zone Conservation Commission, all under an umbrella element of the State Commission. These elements are specific portions of the Coastal Zone Conservation Act (Proposition 20) that are to be enacted into law by the California Legislature in 1975. In the meantime all policies, etc. adopted are to be used when giving permits for any activity in the 1000 yard permit area now controlled by these commissions; although the study area extends inland five miles or to the top of the nearest mountains if closer.

The geology element is one of the nine parts. These documents were placed for public comment and review, hearings were held, and final adoption will take place on September 17, 1974.

Very few people were represented at any of the hearings. Particularly conspicuous by either their absence or silence, were geologists of any sort.

I reviewed the State and the South Coast Regional Commission documents as an invited reviewer and for the City of Long Beach. Both documents were lengthy, perhaps one and a half inches thick, and were made up of textbook type discussions of geologic problems and hazards that occur in the Coastal Zone. These included: (1) Beach erosion, (2) land slides and mud flows, (3) cliff erosion, (4) land subsidence, (5) fault zone hazards, (6) earthquake shaking, (7) liquefaction, (8) tsunami dangers, (9) salt water intrusion, etc.

While most of the background discussions were generally acceptable, their application into "policies" often was not. Fortunately, both the South Coast Regional Commission and the State Commission accepted many changes and the final documents are workable, if reasonable interpretations are put on them in the future. It

is my personal feeling that the oil industry, municipal and county governments should have been well represented at these hearings and they were not.

Following are examples of tentative policies where changes were needed. Many of the changes made were suggested only by Long Beach, even though they would affect other cities and industry:

1. All oil fields were to be repressured.
2. All oil fields would have had seismic monitoring systems installed.
3. No construction would be permitted along surface fault traces of the Inglewood, Malibu and Palos Verdes faults (roads, pipelines, etc.).
4. Nothing could be done to stop bluff and cliff erosion because that would inhibit natural sand supply.
5. Artificial beaches, such as in Long Beach possibly could not have been maintained.
6. Fire stations, lifeguard stations, toilets, etc. could not have been constructed in beach areas.

Now, obviously, most of these things were not really intended by the document authors; however, that is the way they were written due to inexperience in practical matters. As previously stated, all of these have now been changed.

Many other provisions relating to implementation of engineering geology problems also were poor in that they did not allow for public input by hearings, etc. These were modified somewhat, perhaps not enough.

I suggest that all geologists review these documents carefully in their final form. Input is still possible at the legislative level.

Energy Element

This element is in the review process and a hearing is set for late September. All oil companies should review it inasmuch as windmills for
(continued on page 2)

THE REAL OIL SCANDAL

(Reprinted from the Harvard Crimson—
May 9, 1974)

An old adage goes, there are three types of liars—liars, damned liars, and statistics. The energy crisis has had more than its share of all three.

In the past two weeks, the profits for the first quarter of 1974 for the largest U.S. oil companies have been widely reported as showing great gains for the oil companies. Texaco's profits were up 123 per cent, Standard Oil of Indiana's profits were up 81 per cent, and Exxon's profits were up 38 per cent. But what do these statistics mean?

In a completely socialized economy, if a shortage developed in some commodity, the central planners would want to allocate extra resources to the commodity's production. But how much should they allocate and from what other industries should they allocate it? The planners would have no way of knowing.

But in a free market economy, the proper reallocations are made automatically. When a commodity is in short supply, its price rises, increasing profits for the producers. This gives them both the money and incentive to increase production.

In actual practice this has been the case for the oil companies. When the oil shortage made Exxon's profits rise 60 per cent in 1973 to \$2.4 billion, the company increased 1974 investment in the search for oil 73 per cent, to \$6.1 billion. Gulf's profits were up 79 per cent in 1973, to \$800 million, but Gulf has increased its 1974 capital investment to \$2 billion. Atlantic Richfield, making \$270 million last year, plans to double its capital investment in 1974 to \$1.1 billion. The same is true for all oil companies, large and small. The oil companies are reinvesting all of their higher profits, and even more.

But there is another reallocating mechanism in the market. Producers of other commodities, seeing the rising prices of the shortage commodity,
(continued on page 3)

REVIEW OF COASTAL ZONE ...

(from page 1)

power generation are recommended for all offshore drilling structures. I have submitted a number of specific comments to the City of Long Beach for inclusion into a unified critique that will include input in areas not familiar to me. At this point I cannot comment further on specific details.

Many of the recommended *policies* in this document warrant serious review inasmuch as they enter into unproved areas. In general, the entire coast zone is written off as a place for the location of power generating plants, refineries, etc.

It is my understanding that a revised document, perhaps eliminating the provision for windmills, is being produced; however, I have not seen it as yet.

DENNIS ALLEN

Los Angeles

On October 9, 1974, at the Standard Oil Northam Station, La Mirada, the L.A. Basin Geological Society will have as its guest speaker, Hunter Yarborough, Consulting Geologist, Houston. After a steak and beer barbeque Mr. Yarborough will speak on "Plate Tectonics and the Occurrence of Major Hydrocarbon Accumulations." Hunter says many of his examples are from the West Coast of California.

On October 23rd — noon luncheon, Union Oil cafeteria and auditorium, guest speakers will be Dr. Merrill Haas, President, AAPG, and Mr. Fred Dix, Jr., Executive Director, AAPG.

The annual continuing education program is scheduled for October 15, 16, and 17 from 2:00 p.m. to 5:00 p.m. at the Union Oil Center Auditorium, downtown Los Angeles. This year's short course will feature Dr. Donn S. Gorsline who will talk on the "Geology and Geophysics of the Continental Margins with Emphasis on Continental Borderlands and Deep Sea Fans."

After six years in Union Oil's office in Santa Fe Springs, Craig White was transferred to Anchorage, Alaska. Craig reported to work in Alaska with a small herd of sheep, carrying a bag of green sucrosic dolomite and a "drop coring barf chart" and muttering something about mustangs and beavers. Jan Vargo moved into Craig's office so things really haven't changed.

TOM REDIN

GEOLOGIC REVIEW

Plate Tectonics and the Occurrence of Major Hydrocarbon Accumulations

Most of the major hydrocarbon accumulations occur in basins formed during the Mesozoic and the Cenozoic. Many of these basins, their contained sediments, and their structural and stratigraphically trapped oil and gas fields appear to be genetically related to the hypotheses of Plate Tectonics.

Of particular interest are those basins that formed at plate boundaries. Three fundamental methods of basin development according to type of plate margin deformation are reviewed:

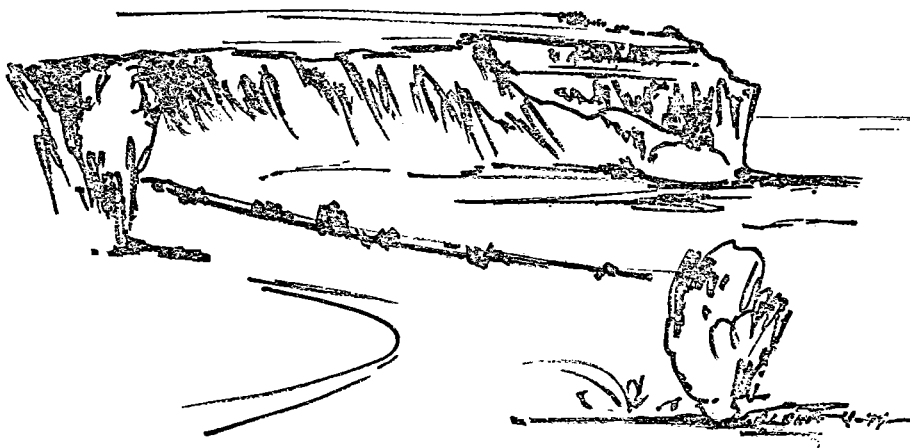
tensional, compressional, and shear-zone. Basin types, structural styles, and sedimentary histories are reviewed for different plate margins.

Significant intracratonic basins have developed as a result of shear-zones "cracking" the cratons. Furthermore, important intracratonic "stand-still" basins and their associated uplifts have resulted from viscosity inhomogeneities within the asthenosphere.

Many major worldwide eustatic changes in sea level appear to be due to the episodic nature of sea floor spreading. Accordingly, much of the paleogeographic history of our continents appears to be related to the hypotheses of Plate Tectonics.

HUNTER YARBOROUGH

PORTUGUESE POINT



PORTUGUESE POINT — PALOS VERDES PENINSULA

Catalina rises out of the Pacific at Portuguese Point, is covered by a thin veneer of basalt and Monterey shale and carved nearly flat by a presently penultimate Pleistocene marine terrace.

On a seaward approach in the smog and morning mists, giant white radar domes on the Palos Verdes Hills usually show through first, even before the Los Angeles Harbor light.

Portuguese Point and other peninsula landmarks are welcome sights to mariners.

Spanish sailors Cabrillo and Viscaïno in the 15 and 16 hundreds surveyed the shoreline on their various journeys, naming prominent points and bays, but Palos Verdes was named by a Committee several centuries later.

Viscaïno has a misspelled street a block long named for him in Glendale; Cabrillo has a beach in San Pedro.

Not far west of Portuguese Point the grain ship Dominator ran irretriev-

ably aground many years ago; still partly awash, the rusty debris attests to the folly of cutting corners, of following Pacific California coastlines too closely.

Even now Palos Verdes appears as a lonely island on misty days; marine terraces near the top of San Pedro Hill are 1300 feet higher than the cuts which beveled Portuguese Point. At one time the Pleistocene Island was covered to within 100 feet of its present peak, surrounded by marine sediments exceedingly rich in Molluscan fauna.

At least 13 wave-worn benches are recognizable above present sea level, the result of an interesting relationship between plate tectonics and Pleistocene glaciation.

Basement relief from Palos Verdes to the nearby center of the Los Angeles Basin is on the order of 31,000 feet, encompassing an alarming amount of geologic information compressed into a surprisingly short portion of geologic time.

—So there!

THE REAL OIL SCANDAL...

(from page 1)

try to switch into production of it as much as possible.

Again, in the oil industry, this has been the case. The *New York Times* reports that even very small operators are entering the industry. "The price of new oil is bringing about development like I've never seen before," said H. L. Sonny Brown in a *Times* article on March 10. Brown is an independent oilman who has just begun putting up his own rigs in Texas. "In 19 years I've never seen this area like it has been the past few months. Everybody wants to do things."

"The oil business looks more attractive to me than it has in the past 15 years," said Don E. Weber of Midland, Texas, also in a *Times* interview. "The rewards are now commensurate with the risks." Weber has just gone into the oil business in partnership with a geologist.

"Where we are now I thought we wouldn't be for two or three years," said Jeff E. Montgomery, chairman of Kirby Industries. "We're packing all the capital we can into exploration and production." Kirby Industries once owned a few oil wells in the '60s but then moved into the prefabrication of steel buildings.

"In those days," Montgomery said, "we weren't making money finding oil. You couldn't make a reasonable rate of return. We set out to get in some other business." But now Kirby Industries is back in oil.

The extra production from increased investment by old and new producers would eliminate the shortage. The oil companies plan to add 2.1 million barrels a day to production in the next four years. This extra production will also drive down prices until profits are back to normal. Thus, higher oil profits mean merely that the market is doing what government allocators would want to do themselves, if only they knew how. The free market re-allocating mechanism is far superior to any reallocating mechanism in planned economics.

In this process the temporarily high profits a company makes during the shortage are its payment for switching resources to their most important uses and for providing a commodity when it is most needed — during the shortage.

These reallocations are the proper ones because they are determined by consumer choices. The more important a commodity is to consumers, the higher they will bid up its price and the profits of its producers during a shortage. But the higher prices and profits are, the more old and new pro-

ducers will shift resources into production of that commodity.

But why would anyone be allowed to make profits at the expense of others? Someone who produces a product creates a value. He has combined various inputs and created a more valuable output. The extra value is his because he created it and his profit is payment for this value. His profit does not mean he is appropriating a bigger share of available wealth, it means he is increasing total wealth and his profit is the amount he increased it by. He doesn't make this profit at the expense of others, he creates the value of the profit by producing the product.

So even if oil profits were high, that would not reveal a scandal. It would simply reveal the rational, just, efficient, workings of the market.

But the truth is that oil profits have not been high. If a company's returns rose 100 per cent, that would not say whether the company was making exorbitant profits or not. If a company made 1 or 2 per cent profit and its profit rose 100 or 200 per cent, the company would still be doing poorly. But this is precisely how oil profits have been reported, as the increase in profits.

The actual figures show that oil companies have not made high profits. Although profits rose 55 per cent in 1973, the return on invested capital for the oil industry was 11.2 per cent, the same as 10 years ago. The FTC reports that oil profits in 1973 were 15.6 per cent compared to 14.8 per cent for all other manufacturing. More than a third of the nation's industries had higher returns. Actually, oil profits had been lower than the average for other manufacturing industries in eight out of the last 10 years.

And these profit figures are heavily influenced by returns on older, already discovered oil wells. Returns on new investments have been lower. In 1972, the Department of Interior estimated that the discounted cash flow rate of return on oil exploration and development expenditures was 3.2 to 6.6 per cent. This means that secure investments like bonds or long term savings certificates have been more profitable than petroleum exploration and development investments.

Furthermore, in the past year, 85 per cent of the increase in oil profits has come from oil produced and sold outside the U.S. Twenty-five per cent of the total gain was due to the devaluation of the dollar. Because of these overseas profits, in the past five years oil companies have invested two dollars looking for oil in the U.S. for every dollar of domestic profit.

Also, much of these profits has gone to the federal government for drilling rights. In 1972, the oil industry made \$6.5 billion in profits. Yet in the following year, the industry paid \$6.9 billion to the government for offshore drilling rights.

So the recent rise in oil profits was really a return to normal levels. But even if oil profits continue to rise, the market will correct itself. Even the profit rise to normal levels has caused great increases in investment, as we have already seen. Any further increase will cause even more, so the resulting extra production will eventually bring profits back to normal levels. In the meantime, the shortage will have been ended and nobody makes any money they haven't earned.

Anyone who thinks there isn't enough oil to be found to increase production ought to research the estimates of oil available from Alaska, off-shore fields, tar sands, shale, coal, and old oil wells. The oil can be found if there is an incentive to find it.

It therefore seems that the notion that oil companies are making outrageous profits is the result of twisted statistics. Even if profits were high that would not reveal anything scandalous or immoral. It seems that the only scandal oil profits reveal is the way they have been grossly misrepresented. The only real scandal is the great number of public figures who are willing to bend the truth to support their ideological contentions.

PETE FERRARA

LOS ANGELES BASIN GEOLOGICAL SOCIETY ANNUAL SHORT COURSE

The Los Angeles Basin Geological Society will present a Continuing Education Short Course by Dr. Donn Gorsline, University of Southern California, entitled "Geology and Geophysics of Continental Margins with Emphasis on Continental Borderlands and Deep Sea Fans." Dr. Gorsline will emphasize the structural framework, sedimentary processes and facies of Continental borderland basins.

The series will be held at the Union Auditorium, 461 Boylston Street, Los Angeles, from 2-5 p.m., October 15, 16, and 17, 1974. Cost will be \$30.00 for Pacific Section members, \$35 for non-members, and \$10 for students. Send reservation requests and checks (payable to Los Angeles Basin Geological Society) to Phil Patten c/o Texaco Inc., Rm. 1100, 3550 Wilshire Blvd., Los Angeles, CA. 90010.

Pacific Section

Fall Field Trip, October 18-19, 1974

PALEOGENE OF THE PANOCHÉ CREEK/CANTUA CREEK AREA

The Pacific Section SEPM Fall Field Trip will be held in Fresno, California on October 18 and 19, 1974. The evening talk: Tectonic and Sedimentary Evolution of the Late Mesozoic-Paleogene Margin of Central California by J. C. Ingle and W. R. Dickinson (Stanford University).

Arrive at the Fresno Sheraton Motel on October 18th in time for Happy Hour from 6 to 7, dinner 7 to 8, dinner meeting will include a review of the trip the following day and the talk referred to above until about 10 p.m. The title of the meeting and subject of the talks as well as the trip are principally "Paleogene of the Panoche Creek-Cantua Creek Area." The Cretaceous will also be discussed.

On Saturday, October 19th, leave the Sheraton in Fresno by bus at 8 a.m., driving via Highway 180 to Panoche Creek, a distance of 50 miles. Review Chaney Ranch Gas Field opposite the field and a rest stop at Standard Oil Company gasoline station, a rest stop at about 9 a.m. From this stop we will travel up Panoche Creek with stops along the way to see the Paleogene Stratigraphic section with a stop at the lower part of Arroyo Hondo Shale (Cerro Shale) where a sandstone at the base carrying *Turritella pachecoensis* fauna can be inspected and sampled until about 10 a.m. The Moreno Shale underlies the Arroyo Hondo Shale, the top of the Cretaceous will be pointed out at the top of the white-weathering Marca Shale where Mesozoic vertebrates (Plesiosaurs and Mosasaurs) along with ammonites are found.

From there we will proceed up Panoche Creek which cuts through the Cretaceous Panoche. A turn will be made to the south on the road to New Idria Mine. The stratigraphic section seen along the road is Panoche where numerous Cinnebar Mines can be seen on both sides of the road. Oil seeps were reported all through the hills in both directions by Anderson and Pack in USGS Bulletin 603 in 1915.

We will travel through the Vallecitos about 11 o'clock, through the Vallecitos Oil and Gas Fields, and on to the Paleogene rocks including the deep-sea fan Cantua Sandstone. Tor H. Nilsen will speak on the Lower

Tertiary Stratigraphy and depositional environment in the Cantua Canyon Area.

Lunch will be from about 12 to 1:30 or 2 p.m. There will be a deep-pit Bar-B-Que about 80 miles from Fresno. After beer and lunch the route will be back-tracked to the Standard Oil Station stop number one. A short two-mile drive is planned to visit the Paleogene and Cretaceous sediments. In Escarpado Canyon the Dos Palos Shale (Paleocene and Danian) will be seen and sampled just above the Cretaceous. Sandstone dikes will be seen and can be studied here in outcrop. The two-mile route will be retraced to the Standard Oil Station and on back to Fresno via Highway 180 arriving in Fresno about 5 or 6 p.m.

There will be a questionnaire sent out prior to the meeting. A professor at California State University at Fresno has offered to allow students to camp out on his acreage near Clovis, a small city near Fresno. He requests that interested students should write to him for approval so he will know how many will be involved. Pertinent data will be in the questionnaire.

Costs for the trip:

Friday:	Cocktail Hour	No host
	Dinner	\$5.25
Saturday:	Bus Trip	\$4.00
	Bar-B-Que	\$4.00
	Guidebook	\$7.00

Total \$20.25

Room reservations for Friday night must be made by each individual.

Northern California

Jade green waters of Waikiki's ol' swimmin' hole soothed the tender white skins of a crowded canoe full of Nor Cal geologists attending the Circum-Pacific Energy and Mineral Resources Conference at the Hilton Hawaiian Village in Honolulu late last August.

Brain-shattering decibels and shock-proof drinks at the opening melee relaxed our don't-give-a-damn spenders for a melange of papers on minerals, hydrocarbons, geothermals, groundwaters, coal, plate tectonics, manganese nodules, and some phosphorite fertilizers plus other types. Our Nor Cal canoe included John Maher, navigator; Herb Sawyer, Ken Crandall, Dick Jahns and Ernie Rich, out-rigger mechanics; Verne Stephens, George Gryc, Ed Cobb, and Jack Feth, shark

watchers; John Silcox, Dave Pfeiffer, James Higgins, and Bob Mitchell, sail hoisters; Al Roberts, Cy Jacobs, Lefty Ellsworth and Earl Brabb, paddlers; and Betty Embysk, language reprover. If we missed anybody, they were leak-pluggers under the seats.

Giant laborer of the conference was unheralded Earl E. Brabb who organized and carried out the extensive press coverage of plans, authors and papers through national and international media plus the Voice of America to communist countries. Over a year's news buildup culminated in long-hour, pressroom-conference-days of jangling phones, clacking typewriters, humming copy machines, desk lunches and piles of outgoing mail. Earl's careful comment: "I had no idea what I was getting into!" Watch for the summaries of technical sessions he arranged to be published in a coming *Geotimes*. AAPG will publish all papers in the sometime future.

* * *

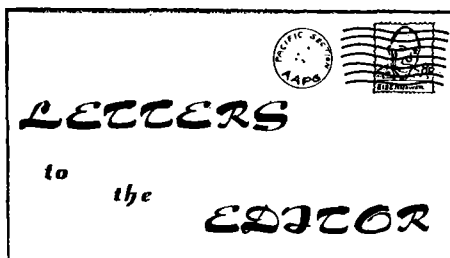
More on NCGS officers. Our Veep, Harry Anisgard retired to Palo Alto in July 1973 after over 27 years with Exxon Co. exploring for O&G in Colombia, Venezuela, Montana, Gulf Coast and the Philippines. His BA in geology from Brooklyn College, 1937, led to an MA from Columbia University in 1939, special work in micropaleo at Stanford in 1953, and a Ph.D. candidate at Tulane from 1963-68. Only once did he stray from the O&G fold and put in two years with the U.S. Bureau of Mines exploring for bauxite in Alabama. Five paleo publications have enriched the science libraries, thanks to Harry's research curiosity. He now consults in Geoservices, plays handball and tennis, teaches math in high school, and in his spare time works up NCGS meetings.

Amphigory in Action. Ever feel fed up with the greed, violence, sham and hypocrisy of modern civilization and yearn for peace and contentment on a South Pacific isle? FORGET IT! Read Eugene Burdick's story of one who did just that. Title - "The Black and the White" from his book *The Blue Capricorn*. You'll be happy to change the baby at 5 a.m., double-kiss the wife, and bounce forth to slay the Hydra Headed Dragon hiding in your IN basket.

O Metaphor, you I adore,
You shimmer in hues and tints.

You tickle my guile
With your sputry smile
And jiggle my glee with your hints.
End.

OTT KOTICK



It felt like salt rubbed on the wounds to read under the heading of National AAPG about the testimony given by our President, M. W. Haas, to the Department of the Interior, presumably as spokesman for the entire AAPG. He has used the old scare tactic of considering as an attack on the free enterprise system, any attempt to have privately gathered geophysical and geological data released to all after a prudent time. As Californian geologists we all know what happens to the Independent when this information is allowed to remain in the archives of the majors for an unlimited number of years! California, with a geology which is as complicated as any in the world is specially suited to the Independent Geologist who could and would, if given half a chance, come up with numerous new fault-block plays.

Waving the free-enterprise flag Mr. Haas stated, and I quote from your publication, "The collection of data, as proposed would be the wedge for additional political pressures to establish a Federal Oil and Gas Company." I think he is 100% wrong and the letter by Mr. Frank H. Ikard, President of API, published in the same issue of the NEWSLETTER (June/July, 1974) supports my contention: California, where the number of Independent Geologists is relatively small ranked with New York and Washington, no-oil states, as the states where the advocates of a Federal Oil and Gas Corp. reach close to 50% of the polled. In Louisiana and Texas, where the Independent Geologist is an important member of the society, the opposition to this Federal Corporation was overwhelming.

The Independent Oil Producer is the grass-roots support needed by the industry to survive. California, oil-country for over a century, has the dubious honor of being the state where the oil industry has the greatest number of enemies. The time has come, before the politicians take it all, to work towards the development of a strong Independent segment of the industry. The release to the public of raw geological and geophysical data would be the turning point towards this goal. Laws that have worked well in Oklahoma, Louisiana and Texas

cannot be attacked here in California as being anti-private enterprise. Working towards the passing of adequate laws to release this vital information is a worthy cause for the Pacific Section.

SIEGFRIED H. HAMANN

Mat Matjasic has announced his retirement from Getty Oil Company effective May 31, 1974. He will remain in Bakersfield and continue working for Getty Oil as a consultant.

Somehow I get the impression that Mat likes Bakersfield... and working for Getty Oil Company!

Mat also wishes to announce the formal dedication June 7 of the Pioneer Oil Exhibit in Pioneer Village, Kern County Museum. This has got to be the finest collection of early oil field memorabilia in the country, and includes geophysical and geological as well as drilling and production exhibits. Drop by on your next trip to, or through, Bakersfield and have a look!

HAROLD SUGDEN

Sacramento

Newly elected officers for the 1974-75 term of the Geological Society of Sacramento are as follows:

President Robert Paschall
Secretary-Treasurer .. Frances Sakai

The Sacramento Petroleum Association will be initiating a new luncheon program beginning September 4th in the hopes to keep the members and guests better informed of current developments in the various areas related to the petroleum industry and educate individuals on subjects other than their specialty. Emphasis is to be placed on the Sacramento Valley. The talks will take place on the first Wednesday of each month and limited in time to approximately 30 minutes. Chairmen have been appointed to direct the following general subject categories:

Exploration Roland Bain
Tri-Valley Oil & Gas
Drilling Lee Rhodes
Exploration Logging
Production and
Reservoir Engr. Bill Hathaway
Hathaway Engineering
Marketing Roland Bain
General Interest Huey Trumps
Schlumberger

TERRY PLUMB

San Joaquin

The first regular dinner meeting of the San Joaquin Geological Society will be held October 8, 1974, at the American Legion Hall, 2025 "H" Street, Bakersfield, California.

Guest speaker for the session will be Hunter Yarborough of Houston, Texas. The speaker will relate major hydrocarbon accumulations to plate tectonics. Special emphasis will be given to California basins.

Dinner will be served at 7:00 p.m. "sharp," preceded by a period of attitude adjustment beginning at 5:30 p.m.

The first meeting of the guest lecturer series, at Bakersfield College, will be held October 14, 1974. The talk will be held in Room 56 of the Science and Engineering Building and begins at 7:30 p.m. The lecturer will be Dr. Judith T. Smith of the U.S. Geological Survey, Menlo Park, California. The subject will be "Finer Resolution of Miocene and Pliocene Megafaunal Stages Using Giant Pectinids From California and Mexico."

JOHN SULLIVAN

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(213) 688-2850

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CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, POY STATION, LOS ANGELES, CALIF. 90017.

NATIONAL AAPG

In his first "President's Page" message since becoming chief executive of the American Association of Petroleum Geologists in July, Merrill W. Haas of Houston announced formation of a special committee within the AAPG.

Writing to the membership through the AAPG Bulletin, Haas said, "Some of the members have urged the association to become active in professional affairs other than those pertaining to career development . . .

"These are troubled times for the petroleum industry . . . The energy crisis has created a situation in which unfounded charges and attacks are made against the industry. These accusations, either by design or because of lack of knowledge by persons in responsible positions, influence decisions of the day which ultimately have a profound effect on the nation . . .

"I am convinced that our mission is clear and that the association should become involved beyond our traditional programs and services to the membership. As a nonpartisan objective association, we must inform public officials of the facts so that political decisions will be made on a firm foundation."

The public information program, Haas said, will be administered by a "strategic committee on public affairs," approved and established by the association executive committee, with Michel T. Halbouty of Houston, a former president of AAPG, as chairman of the new committee.

Reporting to the general chairman will be district chairmen, having responsibility for several states. In addition, two members will be named for each state as "communicators," to conduct direct communication with each state's United States senators on problems affecting the industry and the public.

The plan also envisions an information subcommittee, gathering data pertinent to the geologists' knowledge of the industry for dissemination to the public.

Alaska

NO REPORT.

Northwest

NO REPORT.

Coast

Fall Program

Our first speaker in the fall will be shared among Coast, L.A. Basin, and San Joaquin Societies. Mr. Hunter Yarborough will address the Coast Society on Monday, October 8, at the Wagon Wheel Restaurant (Pioneer Room), 2755 Wagon Wheel Road, Oxnard. He will talk on *Plate Tectonics and the Occurrence of Major Hydrocarbon Accumulations*. Please phone reservations by Friday, October 5, to either Virginia Simons (805) 525-3112 or 647-3887, or John Curran (805) 965-8055. The cost will be around \$6 for steak dinner. Time: Happy Hour—6 p.m., Dinner—7 p.m.

About People

A new addition to Union's staff in Santa Paula is **Vic Rosato**, an M.S. in Geological Oceanography from Oregon State. Vic is currently in Ventura on one phase of his training. **Chuck Barker** will be transferring to Union's Santa Paula office in mid-September from Anchorage.

Our thanks to our last two speakers, Dr. Clarence Allen of Cal Tech and Dr. Donn Gorseline of USC, both of whom delivered excellent and well-attended talks.

RECOMMENDED READING

U.S. GEOLOGICAL SURVEY

Professional Paper 486-G: Geohydrology of the Parker-Blythe-Cibola area, Arizona and California, by D. G. Metzger, O. J. Loeltz, and Burdge Irelan\$5.00

Professional Paper 486-H: Geohydrology of the Yuma area, Arizona and California, by F. H. Olmsted, O. J. Loeltz and Burdge Irelan\$11.60

Professional Paper 655-H: Quantitative and historical evidence of vegetation changes along the Upper Gila River, Arizona, by R. M. Turner\$2.00

Professional Paper 772: Gold-bearing gravel of the ancestral Yuba River, Sierra Nevada, California, by W. E. Yeend\$2.70

Professional Paper 832: Geology of the Skagway B-3 and B-4 quads., southeastern Alaska, by E. M. MacKevett, Jr., E. C. Robertson and G. R. Winkler\$2.05

Professional Paper 885: Summary of 1972 oil and gas statistics for onshore and offshore areas of 151 countries, by Sherwood E. Frezon\$2.70

B1307: Synopsis of the mineral resources and geology of Alaska, by

E. H. Cobb70¢
Circular 692: Selenium, fluorine, and arsenic in surficial materials of the conterminous United States, by H. T. Shacklette, J. G. Boerngen, and J. R. KeithFree

Circular 694: The worldwide search for petroleum offshore—A status report for the quarter century, 1947-72, by Henry L. Berryhill, Jr.Free

Circular 695: Environmental impact analysis: The example of the proposed Trans-Alaska Pipeline, by David A. BrewFree

Circular 696: Reports and maps of the Geological Survey released only in the open files, 1973, by Betsy A. Weld, Kathleen T. Iseri, and Marvin L. MillgateFree

Circular 698: Mineral resources: Potentials and problems, by Walden P. Pratt and Donald A. BrobstFree

Circular 700: United States Geological Survey Alaska Program, 1974, Claire Carter, EditorFree

Circular 701: Goals, strategy, and task of the Earthquake Hazard Reduction Program, by Robert E. WallaceFree

Circular 702: Movement and effects of spilled oil over the Outer Continental Shelf—Inadequacy of existent data for the Baltimore Canyon Trough area, by H. J. KnebelFree

Circular 703: Water demands for expanding energy development, by George H. Davis and Leonard A. WoodFree

U.S. BUREAU OF MINES (order from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402)

Information Circular 8626: Mineral resources of the Trans-Alaska pipeline corridor, by John J. Mulligan. 24 pp., 9 figs. Catalog No. I28.27:8626\$3.10

Information Circular 8631: Summary of mining and petroleum laws of the world (in five parts). Europe, by Northcutt Ely. 1974. 86 pp. Catalog No. I28.27:8631\$1.25

Information Circular 8637: Evaluation of waterfloodability of oilfields by pilot flooding, by James A. Wasson. 1974. 21 pp., 11 figs. Catalog No. I28.27:863765¢

GEOLOGY, vol 2, no. 9, September 1974

Subduction and oil migration, by William R. Dickinson

Progress toward reconciliation of Lower Mississippian conodont and foraminiferal zonations, by Paul Brenckle, H. Richard Lane and Charles Collinson

Preliminary model for extrusion and

- rifting at the axis of the Mid-Atlantic Ridge, 36° 48' North, by James G. Moore, Henry S. Fleming and Joseph D. Phillips
- Yellowstone hot spot: New magnetic and seismic evidence, by R. B. Smith, R. T. Shuey, R. O. Freidline, R. M. Otis and L. B. Alley.
- Reoccupying unmarked camera stations for geological observations, by A. E. Harrison
- JOURNAL OF GEOLOGY, vol. 82, no. 4, July 1974
- Glass-coated lunar rock fragments, by H. G. Wilshire and H. J. Moore
- Chemical petrology of a suite of calc-alkaline lavas from Mount Ararat, Turkey, by Richard St. John Lambert, James G. Holland, and Peter F. Owen
- DIRECTORATE GENERAL OF MINERAL RESOURCES, SAUDI ARABIA (P.O. Box 345, Jeddah, Saudi Arabia)
- Bulletin 7: The Ha'il Arch - A key to deformation of the Arabian Shield during evolution of Red Sea Rift, by William R. Greenwood
- Bulletin 8: Stratigraphy and tectonism of the southern part of the Pre-cambrian Shield of Saudi Arabia, by Dwight L. Schmidt, Donald G. Hadley, William R. Greenwood, Louis Gonzalez, Robert G. Coleman, and Glen F. Brown.
- Bulletin 9: Petrology and chemical analysis of selected plutonic rocks from the Arabian Shield, Kingdom of Saudi Arabia, by William R. Greenwood and Glen F. Brown
- Geologic Map GM-9: Total intensity aeromagnetic map of the northern Hijaz quadrangle and part of the Wadi as Sirhan quadrangle, Kingdom of Saudi Arabia, by G. E. Andreasen and A. J. Petty
- Geologic Map GM-16 (Sheet 18/42C): Reconnaissance geology and magnetic intensity map of the Jabal Sawdah quadrangle, Kingdom of Saudi Arabia, by James C. Ratte and Gordon E. Andreasen
- WASHINGTON GEOLOGIC NEWSLETTER: (A publication of the Washington State Division of Geology and Earth Resources) Vol. 2, no. 3, July 1974
- Jorsted Creek Slide, Mason County, by Robert J. Carson and Jeffrey J. Gryta
- Geothermal lease applications, by J. Eric Schuster.
- THE ORE BIN, vol. 36, no. 7, July 1974
- Some implications of Late Cenozoic volcanism to geothermal potential in the high lava plains of South-Central Oregon, by George W. Walker
- The Tyee-Yamhill relationships: A discussion
- Stratigraphic and biostratigraphic relationships of the Tyee and Yamhill Formations: Comments, by Weldon W. Rau
- Reply to comments, by Robert G. McWilliams
- CALIFORNIA GEOLOGY, vol. 27, no. 8, August 1974
- Origin of Lake Merced, by Neil E. Fahy
- The Monte Bello Ridge Mountain study, by Charles F. Armstrong
- CALIFORNIA DIVISION OF MINES AND GEOLOGY (Mail orders: P.O. Box 2980, Sacramento, Preliminary Report 17: Environmental Calif. 95812)
- Preliminary Report 17: Environmental geologic analysis of the Monte Bello Ridge Mountain Study area, Santa Clara County, California, by Thomas H. Rogers and Charles F. Armstrong\$7.00
- GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 85, no. 8, August 1974
- Anatomy of an orogen, by John C. Maxwell
- Contemporary tectonics and seismicity of the western United States with emphasis on the Intermountain Seismic Belt, by Robert B. Smith and Marc L. Sbar
- Prineville chemical type: A new basalt type in the Columbia River Group, by Venkato Rao Uppuluri
- Radiocarbon ages of alluvium overlying La Nacion Fault, San Diego, Calif., by Michael W. Hart
- JOURNAL OF SEDIMENTARY PETROLOGY, vol. 44, no. 2, June 1974
- Sedimentation on gravel outwash fans, Malaspina Glacier Foreland, Alaska, by Thomas C. Gustavson
- Strudel scour: A unique arctic marine geologic phenomenon, by Erk Reimnitz, Craig A. Rodeick, and Stephen C. Wolf
- Replacement of fossils by length-slow chalcedony and associated dolomitization, by Alonzo D. Jacka
- Early diagenesis: Expansible soil clay-sea water reactions, by Herman E. Roberson
- The characteristics and origins of dish and pillar structures, by Donald R. Lowe and Robert D. LoPiccolo
- Heavy minerals of the East-Central Bering Sea Continental Shelf, by Harley J. Knebel and Joe S. Creager
- The occurrence of glauconite in Monterey Bay, California, Diversity, origins, and sedimentary environmental significance, by James R. Hein, Alan O. Allwardt and Gary B. Griggs
- GEOLOGY, vol. 2, no. 3, March 1974
- Eureka Valley Tuff, East-central California and adjacent Nevada, by Donald C. Noble, David B. Slemmons, Marjorie K. Korrington, William R. Dickinson, Yehya Al-Rawi, and Edwin H. McKee
- Possible modern analogs for rocks of the Franciscan Complex, Mount Oso area, California, by Loren A. Raymond
- Tectonic significance of the Kodiak-Bowie Seamount Chair, north-eastern Pacific, by Eli A. Silver, Raymond von Huene, and James K. Crouch
- Basis for skeletal plasticity; among the reef-building corals, by Jon N. Weber
- Deep eustatic terrace levels: Further speculations, by Richard M. Pratt and Robert F. Dill
- GEOLOGY, vol. 2, no. 4, April 1974
- Speculations on geologic structures in northern California as detected from ERTS-1 Satellite imagery, by Ernest I. Rich, and William Clinton Steele
- Central San Andreas Fault: Strain episodes, fault creep and Earthquakes, by Charles G. Bufe, and Don Tocher
- GEOLOGY, vol. 2, no. 5, May 1974
- Remanent magnetization of modern tidal flat sediments from San Francisco Bay, Calif., by Stephen Graham
- Simulated "true color" images from ERTS data, by Eric M. Eliason, Pat S. Chavez, and Laurence A. Soderblom
- Plate tectonics: A plastic as opposed to a rigid body model, by Sam Boggs, Jr.
- GEOLOGY, vol. 2, no. 6, June 1974
- Dilemma of a Cretaceous time scale and rates of sea-floor spreading, by Brewster Baldwin, Peter J. Coney and William R. Dickinson
- Channel changes, by William W. Emmett
- Plate tectonics and foreland basement deformation, by James D. Lowell
- Structures generated in fluid stressing of freshly deposited clays resemble ichnofossils, by Iakov Karcz, Paul Enos and Gerald Langille
- U.S. GEOLOGICAL SURVEY
- Professional Paper 819: Geology of the southern Salinas Valley area, California, by D. L. Durham ..\$4.55
- MAPS:
- MF 568: Preliminary geologic map of the Yreka quadrangle, Calif., by P. E. Hotz50¢
- MF 576: Reconnaissance geologic map of the Hayford quadrangle, Trinity County, Calif., by W. P. Irwin50¢

RECOMMENDED READING ...

(from page 7)

Bouguer gravity map of California: Death Valley sheet. Scale 1:250,000. 1973\$2.00

UNIVERSITY OF CALIFORNIA PUBLICATIONS IN GEOLOGICAL SCIENCES (University of California Press)

Vol. 105: Oligocene biostratigraphy, San Joaquin Valley, California, by Ann Tipton, R. M. Kleinpell, and D. W. Weaver. 1973. (A contribution from the University of California Museum of Paleontology) \$3.25

Vol. 106: Early Cretaceous foraminifer from the Budden Canyon Formation, northwestern Sacramento Valley, California, by Donald H. Dailey. 1973. (A contribution of the Museum of Paleontology, University of California, Berkeley) \$7.00

AMERICAN JOURNAL OF SCIENCE, vol. 274, no. 5, May 1974
Shorelines of epeiric seas, by J. G. Johnson

Bedload and suspended-load transport in a small, steep, mountain stream, by Gerald C. Nanson

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 85, no. 6, June 1974

Crustal evolution and global tectonics: A petrogenic view, by A. E. J. Engel, Sonja P. Itson, Celeste G. Engel and Dale M. Stickney

Quaternary glaciations of the White River Valley, Alaska, with a regional synthesis for the northern St. Elias Mountains, Alaska and Yukon Territory, by George H. Denton

Trace fossils and bathymetry of the Upper Cretaceous Point Loma Formation, San Diego, California, by J. Philip Kern and John E. Warme

Lineaments and coastal geomorphic patterns in the Alaskan Arctic, by A. D. Short and L. D. Wright

Estimates of strike-slip offset in southwestern Arizona, by John R. Summer and George A. Thompson

Structural analysis of the Snake Range "Decollement," East-Central Nevada, by Peter J. Coney

Fossiliferous amber from the Eocene (Claiborne) of the Gulf Coastal Plain, by W. Bruce Saunders, Royal H. Mapes, Frank M. Carpenter, and William C. Elsik

Seismic reflection and aeromagnetic surveys of the Great Salt Lake, Utah, by Matthew J. Mikulich and Robert B. Smith

BOOKS

CITIES AND GEOLOGY, by Robert F. Legget. McGraw-Hill Book Co., New York, 1973. 624 pages num. figs.\$15.50

THE METRIC MANUAL, by J. J. Keller and Associates, Inc., 145 W. Wisconsin Ave., Neenah, Wisconsin 54956 (Introductory price of \$25.00, if payment accompanies order.)

International maps and atlases in print, Edited by Kenneth Winch. Published by Bowker Publishing Company, Ltd., England, and distributed in the Western Hemisphere, by R. R. Bowker Co., 1180 Avenue of the Americas, New York, New York, 10036. 8 1/2 x 13 1/2", 862 pages\$39.50

U.S. GEOLOGICAL SURVEY

OPEN FILED REPORTS: Beginning with May 1974, each USGS open-file report is being assigned a unique number and is being announced in the Monthly List of USGS Publications, along with all other USGS publications. Press notices will continue to be issued when warranted.

74-2: Some geotechnical facts that affect development, Hayward shore-

line area, California, by S. D. McDonald and D. R. Nichols. 2 pls., scale 24,000

74-5: Geologic map of the SP Mountain quadrangle, Arizona, by G. E. Ulrich and N. G. Bailey. 1 pl., scale 1:50,000

74-6: Residual magnetic anomaly and free-air gravity anomaly profiles, 1973, on continental shelf and slope between Bering Strait and Barrow, Alaska, and MacKenzie Bay, Canada, by W. F. Hanna, B. D. Ruppel, A. G. McHendrie, and R. F. Sikora. 6 pls., scale 1:1,000,000

range, by E. H. Cobb. 116 p.

74-7: Geological Survey open-file reports of Alaska indexed by quad-

74-8: Aeromagnetic map of the Cholame-Taft area, southwestern Calif., 1 pl., scale 1:125,000

74-9: Basic heat-flow data for the United States, compiled by J. H. Sass and R. J. Munroe. 456 p. 1 fig.

74-31: Catalog of creepmeter measurements in central California from 1968 to 1972, by R. D. Nason, F. R. Philippsborn, and P. A. Yamashita. 287 pages.

REPORTS AVAILABLE ONLY THROUGH NTIS (National Technical Information Service, U.S. Dept. of Commerce, Springfield, Va. 22151)

PB-231 303-AS: Digital simulation of the effects of urbanization on runoff in the upper Santa Ana Valley, Calif., by T. J. Durbin\$3.75

PB-231 695/AS: Gravity data for 525 stations in Long Valley and vicinity, California, by H. W. Oliver, S. L. Robbins, L. C. Pakiser and M. F. Kane. 20 pages\$4.25

PB-231 921/AS: Principal facts for 1,230 gravity stations in the Los Angeles 1° by 2° quadrangle, Calif., by W. F. Hanna and R. F. Sikora. 45 pages\$5.50

LUCY E. BIRDSALL

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017



PACIFIC PETROLEUM GEOLOGIST NEWSLETTER

of the Pacific Section
American Association of Petroleum Geologists

VOLUME 28

OCTOBER/NOVEMBER/DECEMBER, 1974

NUMBER 10/11/12

GUEST EDITORIAL . . .

ABOUT THE YOUNG GEOLOGIST

When I was asked to write the editorial for the NEWSLETTER, my response was, "what could I possibly say that would be profound enough for anyone to read?" After reading this, you will probably agree, but I do have a plea or suggestion that could be of vital importance to many young people. As a geology instructor at Bakersfield College, I work with many students who are exposed to geology for the first time in their young lives. Occasionally we reach a few and "turn them on" to the profession. This fall, of 45 students in one class, seven are declared majors or Geo-Tech candidates.

As of now, they can't tell the difference between an anticline and a syncline, a rock or a mineral, but when finals roll around they will know this and much more. By the end of spring semester, and Historical Geology they will begin to sound like geologists and have the drive and enthusiasm to be part of the profession.

What impresses me about these young future geologists is that they want to *work* and learn in industry. Most of them refuse to apply for scholarships but want summer jobs and part time work with an oil company or consultant—they want a helping hand—not a handout. I know you are deluged with *Hire the Vet*, *Hire the Handicapped*, hire your wife's nephew, but why not do something for yourself, put a young geology major to work—filing, drawing x-sections, contouring, etc.

We have placed several students with major oil companies and consultants and we all benefit—the employer has a loyal enthusiastic employee, the student has an income that will keep him in school and I have a student who now believes me when I insist, "do it neat and do it right."

I often hear the complaint that colleges and professors are anti-oil. That may be true in some cases but there are many of us who understand the problems of the oil industry and we do our best to train top geologists for the petroleum companies.

I resent it when all professors are painted with the same brush. We want to work and want our students to work in the industry. There are many projects (research and routine) that could be performed by community college teachers/or their students. Jobs and education is a two way street and we cannot function without each other.

STANLEY ED. KARP
Bakersfield College

PUBLIC RELEASE OF WELL DATA

The California Section of AAPG will introduce legislation in Sacramento this Spring providing for public release of all state well data. The arguments for and against such legislation have been discussed ad nauseum. It has, however, been the consensus of each of our executive committees for the past five years that such laws are now necessary and desirable for for the oil industry, the state of California, and the Nation. Enough time has been wasted. We have therefore decided to act now. A preliminary draft of our proposal will be completed during December. We urgently request anyone with opinion on how this legislation should be drafted to contact one of the undersigned.

FREDRICH L. STEAD
President (213) 395-3336
THEODORE OFF
Legislative Committee Chairman
(805) 643-8641

Los Angeles

I'm sorry I missed sending in Los Angeles Basin Geological Society's news last month, but we had a very busy schedule. Included in our schedule was a five-day field geology trip to San Nicolas Island. Highlights of this trip were the Navy base projectionist refusing to show movies he didn't like, and Tom Baldwin's discovery of an unmapped "fault."

It was a shame so many members missed the fine talks by our national leaders from Tulsa, Dr. Merrill Haas and Fred Dix, Jr., at the October luncheon. Their talks were followed by a spirited discussion of the issues and dilemma the oil and gas industry is facing today. I suspect many AAPG members are unaware of the course the national AAPG officers are following with regard to pending congressional legislation.

To all you dudes that missed the LABGS dinner-dance at the Long Beach Naval Officers' Club, you really blew it. The hors d'oeuvres, booze, dinner and dancing were nothing but fine! The only difficulty was Bob Davis locking his car keys up and Bob Burns arriving after 9:00 p.m. expecting dinner.

On December 12, 1974, 12:00 noon, at the Taix Restaurant on Sunset Boulevard, the LABGS will have as its featured speaker, Dr. Robert Yeates of Ohio University, Athens, Ohio. The title of his talk will be "The Tectonic Evolution of the Southern California Borderland."

We have tentatively lined up Maurice Fishburn, geologist with the U.S. Naval Petroleum Reserve No. 1, Elk Hills, California, for our January luncheon speaker. The title of his talk is "Elk Hills Past, Present, and Future Development and Exploration." The luncheon is scheduled for noon, January 23, 1975, at the Taix Restaurant on Sunset Blvd., Los Angeles.

Very truly yours,
TOM W. REDIN

COASTAL ZONE PLAN

With the passage of Proposition 20 in November, 1972, the voters of California established the Coastal Zone Conservation Commissions. The principal charge of the State and six Regional Commissions is the preparation of a "comprehensive, coordinated, enforceable plan for the orderly long-range conservation and management of the natural resources of the coastal zone."

A brief summary of the highlights of policy recommendations to be discussed is as follows:

1. Oil companies will submit to the state, one, five, and 10-year plans for development prior to drilling offshore wells, and the state should petition the federal government to require the same before approving federal leases.

2. Oil companies will be encouraged to add additional reserves by increasing oil recovery.

3. Oil well completions will be regulated by the Division of Oil and Gas as is done in Texas and Louisiana.

4. California should become a full voting member of the Interstate Oil Compact Commission — includes Oklahoma, Texas, Arkansas, and Louisiana.

5. Petroleum prices should be deregulated to encourage more production.

6. Exploration and production data should be disclosed. All exploratory surveys (*including seismic*) and all well data should be released to the public within one year.

7. All development drilling should be unitized; also, pipelines and storage facilities should be shared.

8. Wherever possible, underwater completions should be made.

9. It should be required for all offshore wells that a \$10,000,000 bond be posted with the state for each lease and a \$1,000,000 bond for each producing well. The bonds will insure that oil spills will be cleaned up.

10. Use of existing tanker terminals should be maximized and new construction, strictly controlled; for example, widespread sharing of existing terminals, and build no more than absolutely necessary.

11. Oil imports for P.A.D. V (California, Arizona, Nevada, Oregon, Washington, and Alaska) should be restricted for member states' own use. Eliminate trans-shipments across California and P.A.D. V.

12. A two cent per barrel fee should be levied for all oil entering and leaving California terminals (raising approximately \$4 million per year). The money will be used for the pro-

tection and amelioration of oil spill damage, and for state acquisition of coastal areas of critical biological concern.

13. New refinery construction should be banned in critical air basins, and only permitted in the coastal zone if there is an overriding public need.

14. Liquefied natural gas facilities should be allowed along the coast to encourage the importation of gas, but siting and construction should be strictly regulated for maximum safety.

Copies of the detailed first draft of the Energy Element dated August 26, 1974, are available at the public libraries in Ventura, Santa Barbara, and San Luis Obispo, and elsewhere as shown in the attached listing. There are three parts: One titled "Energy, Summary of the Report (Energy), Compiled by the Staff for the South Central Coastal Regional Commission." Another is titled "Tentative Findings and Policies to be Recommended by the South Central Coastal Commission to the California Coastal Commission, Based on the Report (Energy)." The policy part of the latter is the most significant to us. The third part is a special supplement discussing energy conservation, petroleum demand and supply, and alternate energy sources.

The committee to analyze Coastal Commission drafts is composed of the following:

- 1—Chairman, Jack C. Cooper
Ex-CONOCO, retired
6375 Loma Vista Rd., Ventura 93003
(805) 642-3880
- 2—Al Lorshbough
Division of Oil and Gas
P.O. Box 67, Santa Paula 93060
(805) 525-2105
- 3—John Curran
212 La Arcadia Building
1114 State St., Santa Barbara 93104
(805) 965-8055
- 4—Robert J. Hindle
Sun Oil Company
23928 Lyons Ave., Newhall 91321
(805) 259-2440

RARE BOOK SALE!

Original copies of the 1937 AAPG Convention Southern California Guidebook are now on sale at \$5.00 each. All are in excellent shape and feature geological blurbs and field trip guides through L.A. Basin, San Joaquin Valley, and Ventura Basin by W. F. Barbat, W. S. W. Kew, J. E. Eaton, and S. G. Wissler. Only several dozen of these remain so order now from Carl Evans, Texaco Inc., 3350 Wilshire Blvd., Los Angeles, Calif. 90010.

THE MOMENTUM OF OIL EXPLORATION

Successful oil and gas exploration is a business and a science based on continuing geological work, drilling, and research.

In searching the unknowns of geology through petroleum exploration each operation helps point the way to the next step and therefore this kind of research cannot be turned on and off at the whims of disinterested groups or politicians. It cannot be cut back, then quickly regained when needed.

We may now be midway in the evolution of petroleum exploration and discovery which started many years ago with tar pits, tunnels, and drill holes on seepages. In the beginning every step out well away from the seepage was an adventure in research.

The rate of oil and gas discovery is closely related to the volume of exploratory effort and much remains to be done and learned. Increasing subsurface knowledge, as in a research laboratory, is stimulated by that priceless ingredient, competition. What is the competitor doing? What is he learning in geology that will help other explorers succeed? Perhaps a critical fossil from the bottom of his deep dry hole that can point the way toward a discovery for someone else.

The lack of competition probably explains why the U.S. Government could not find commercial oil or gas on the North Slope of Alaska, in spite of \$100 million spent by the Navy in geology and drilling on Naval Petroleum Reserve No. 4.

If it were not for competitive drive the increasing depths achieved in geological test drilling, to 30,000 feet and more, would be little more than a hope for the exploration geologist. This is the reason why research and exploration policies cannot be left to public extremists or government if our energy needs are to be fulfilled.

Some groups are urging that the exploration of the Outer Continental Shelf should await a time of National Emergency. Such a time occurred on the California Coast in 1942 when enemy submarines were sinking tankers and shooting at offshore oil installations near Santa Barbara.

Is that the kind of National Emergency our NO OIL Congressmen are talking about?

Would that be a good time to start up the job of exploring and developing the Continental Shelf?

And how safe and how fast and how successful in a crash program?

Sounds like exploring for water when the house is on fire.

FRANK A. MORGAN

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS SPECIAL COMMITTEE ON PUBLIC AFFAIRS

PAGE 3

As stated by President Merrill W. Haas (AAPG *Bulletin*, July, 1974), the AAPG has credibility with the Federal Government which can be used to counter the multitude of so-called experts who, by issuing unfounded charges, have molded public opinion to make the petroleum industry the scapegoat for the energy crisis. In an effort to provide public officials with data they can trust and use in their decision-making process, the Special Committee on Public Affairs has been established by the AAPG Executive Committee.

Michel T. Halbouty is the General Chairman of this Committee. Reporting to him will be District Chairmen who have responsibility for the program in the states assigned to each. Two individuals will be appointed for each state as Direct Communicators to serve under the District Chairman.

The Direct Communicator must be a member of AAPG. He should have cordial relations with his Senator, be an individual whom the Senator respects and from whom he will seek and accept advice. Preferably, the Direct Communicator should be a prominent member of the community,

a competent geologist informed on current events, articulate and persuasive, motivated, and free to spend time in carrying out his duties. His contacts must be conducted on an irreproachable ethical and moral level, that of a concerned citizen and geologist on an educational and informational mission. His duties shall consist of visits with his Senator, and the frequency will depend on the existing circumstances. He will attempt to keep the Senator informed by personal contacts, occasional telephone calls, telegrams, and letters.

Assisting the General Chairman, the District Chairman, and the Direct Communicators will be a Coordinating Committee under the chairmanship of J. R. Jackson, Jr., P.O. Box 2180, Houston, Texas 77001.

Individual AAPG members who desire to participate in this program should get in touch directly with Mr. Jackson or James H. Davis (same address, AC 713/221-5979).

This program, although directed to informing the Senators, does not preclude others from communicating with their Representatives or other elected officials when information is needed. Each member of our Association needs to keep informed and to communicate with the public by addressing clubs, schools, etc. We must deal in facts. With facts, we can perform a service to our profession and to our nation.

General Chairman Halbouty will welcome response. Let's give him our full cooperation.

GEOLOGIC REVIEW Elk Hills—Past, Present and Future Development and Exploration

Since Associated Oil Company tapped Elk Hills for its first oil in 1911, this giant oil field with over one billion barrels of proven oil reserves is slowly giving up her geologic secrets. Even after over 1100 wells have been drilled there are still ample areas left to develop and explore. Production comes from sediment which range in age from Pliocene to Lower Miocene and consists of blanket, deltaic and channel sands and fractured shales. Present plans call for full development of the known producing zones and future programs are planned to fully explore for Tulare, Stevens, Carneros and Eocene oil sands. A 20,000 foot basement test is scheduled for early next year.

MAURICE FISHBURN

Alaska

Howdy Youall:

Greetings again from the land of long shadows and short summers. 'Twas a real beauty though, rained just enough to keep the grass green and the mosquitoes clean. Already had two teasers of termination dust but they don't last long in the balmy 40's.

The AGS got off to a running start under the guidance of the following new officers:

Tom Wilson, *President*
W. M. "Bill" Lyle, *Vice President*
Joe Cvitsch, *Secretary*
C. R. "Chuck" Harrison, *Treasurer*
Dick E. Atchison, *President-Elect*

Address any inquiries to Tom at: Marathon Oil Co., P.O. Box 2380, Anchorage, Alaska 99510 or regarding AGS Publications to Ernie Lian, same address.

Our first meeting, after the ice breaking and introducing summer arrivals, was a presentation by Tom Miller of the USGS on the "Geothermal Potential of Alaska" and we found out that we have several hot spots that aren't related to the pipeline or politics. In October the AGS was fortunate in having Merrill Haas, President of AAPG, and Fred Dix, AAPG Executive Director as guest speakers on the Energy Crisis and AAPG Developments. Seems that the economic health of energy industries and energy welfare of the nation as a whole is inversely proportional to most of the past and/or proposed governmental "Help" that we are afflicted with at present. I'm sure that most of us were glad to hear that the AAPG is moving into the political or legislative arena with dignity, professionalism and credibility in high priority. We are already enjoying more than we can stand of the quick-triggered, stump-speaking, picket-packing, drum beating, quasi-expert groups. Hope that Merrill and Fred can return when the skiing is not so soggy.

AGS meetings scheduled for November and December are as follows:

November 8 at Noon, Royal Inn — Leigh C. Price, USGS, and a Distinguished Lecturer will speak on "Solubility of Petroleum in Water and its significance to Petroleum migration."

December 12 at Noon, Anchorage Westward Hotel — Dr. Gregory A. (continued on page 4)

PACIFIC SECTION — AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Executive Committee

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(415) 894-3161
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Editor JOHN W. LIDSTROM
(213) 380-5830

Newsletter Staff

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Recommended Reading LUCY E. BIRDSALL
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NEWSLETTER of the Pacific Section—American Association Petroleum Geologists is published monthly by the Pacific Section.

Material for publication and requests for previous copies should be addressed to JOHN W. LIDSTROM, TEXACO INC., 3550 WILSHIRE BLVD., L.A., CALIF. 90010.

Material received by the 10th of each month will be included in the following issue.

CHANGE OF ADDRESS, subscription, and membership inquiries should be directed to: MEMBERSHIP SECRETARY, PACIFIC SECTION AAPG, P.O. BOX 17486, FOY STATION, LOS ANGELES, CALIF. 90017.

ALASKA . . .

(from page 3)

Davis, USC, another Distinguished Lecturer, whose topic will be "Plate Tectonic Models for Thrust Faulting."

I've also been reminded that AGS will sponsor another of our outstanding symposiums, April 2-4, 1975. The subject will be "Recent and Ancient Depositional Environments of Alaska." So all of you ex-Sourdoughs and other hosses working the Great Land keep those dates open—the Spring skiing will be great also. Al Sisson, Chairman, informed me that some 20 outstanding speakers have already definite or tentative commitments but he is soliciting a few more papers. So anyone interested is invited to submit an abstract or contact Al at Union Oil Co., P.O. Box 6247, Anchorage, Alaska 99502. More specifics about speakers and subjects later. Sorry that I lost the list Al, but as soon as it snows again, I'll rip over and get another on my snowmachine.

Buenos snowshoes,
DICK E. ATCHISON

EXECUTIVE COMMITTEE MEETING

September 12, 1974

Treasurer's Report — Treasurer Knight reported total cash on hand of \$17,040.09. Final spring picnic accounting showed a surplus fund of \$316.14, principally from advertising sold. Financial results of the 1974 convention will be finalized by September 30; but it tentatively appears to show a surplus in excess of \$3,000 in which the SEPM and SEG will share. Convention profits may be reduced unless approximately 10 misplaced boxes containing Baja guidebooks are located. A front-page notice in the forthcoming NEWSLETTER seeking information was requested.

1975 Convention — Convention Chairman Barron revealed that organization and programming are moving well ahead of schedule. The convention will be held aboard the Queen Mary, April 23-25, 1975. Three hundred rooms have been reserved for those attending. All committees have been chaired except AAPG Program Chairman.

Publications — Don Hallinger revealed that Carl Evans of Texaco will be the incoming Publications Chairman. Total 1974 sales of publications are estimated at approximately \$9,000. A formal report will be presented at

the next Executive Committee Meeting.

Core Storage — Chairman Jim Weddle in absentia telephoned President Hunter and related his optimism that the core storage facilities will become a reality in 1975. To this end, the USGS has committed \$12,000; the DOG, \$5,000; with additional contributions of unstated magnitude from the Division of Mines and Geology and WOGA.

Continuing Education — President Hunter stated that Bill Yarborough's talk on plate tectonics is outstanding and has been scheduled to be given at the Ventura, San Joaquin and Los Angeles Societies on October 7, 8 and 9, respectively. Total cost to provide this educational service is estimated at \$500 (assuming no outside donations are forthcoming). A motion was approved that the Pacific Section will pay 50% of the total bill with the other 50% coming from the various Societies as their membership bears to the Pacific Section.

Membership Directory — Mike Mayuga was directed to prepare a new Directory, without photographs, with costs and format to be determined by the next Executive Committee Meeting. It is intended that the Directory be finalized in time to be made available for sale at the spring convention. Discussion was held as to the merits of selling advertising space in the Directory to help defray costs, but no decision was made pending Mike's report.

1976 Convention — Don Ziegler received Executive Board approval to hold the 1976 Convention in San Francisco, April 21-24, 1976. Bob Blaisdell has been appointed General Chairman. The April date selected does not conflict with either the National AAPG Convention to be held in late May or the GSA Convention in early April.

National AAPG — Hank Neel is preparing to attend the first meeting of the Advisory Council later this month. In reply to a question as to how AAPG has become politically involved while maintaining a tax-free status, John Kilkenny suggested that there is no problem as long as it is the Congressional Committee that asks the appropriate member of the Society to testify, at which time views can be freely discussed.

Student Paper Sponsorship — President Hunter initiated a discussion as to whether the Pacific Section should select an outstanding student to deliver a paper at the forthcoming National Convention in Dallas, and it was tentatively concluded that the money would be better spent locally.

PACIFIC SECTION AAPG ANNUAL MEETING

Long Beach, California

April 23-26, 1975

CALL FOR PAPERS

The 1975 annual meeting of the Pacific Section, AAPG - SEPM - SEG will be held aboard the Queen Mary in modern Long Beach harbor.

We are calling for papers of 20 minutes duration on "Future Energy Horizons on the Pacific Coast." This theme includes papers on all aspects of our energy requirements.

As our meeting is concurrent with the impending offshore California sale, all papers relating to this would be extremely timely.

Submission of titles and a brief description should be submitted by December 15, 1974. Abstracts of papers will be due January 15, 1975.

Please send titles and description to:

— Tom Baldwin —
AAPG Program Chairman
261 E. Colorado Blvd.
Pasadena, CA 91101

We intend to include all papers in a preprint volume.

Manuscripts must be submitted by February 15, 1975 for inclusion.

LOS ANGELES BASIN GEOLOGICAL SOCIETY

Winter Dinner-Dance

November 16, 1974

The Los Angeles Basin Geological Society would like to express special thanks to those who contributed to the Winter Dinner-Dance:

Cocktail Hour Hosts

AMF Tuboscope
Anderson Wilcoxon & Associates
Barnes Core Drilling Co.
Borst & Giddens Well Logging Service
Burns Geological Exploration, Inc.
Byron Jackson, Inc.
Core Lab, Inc.
Dresser Atlas Div. Dresser Industries
Exploration Logging of USA, Inc.
Gibson Directional Drilling
Global Marine, Inc.
GO International, Inc.
Lou Heintz Associates
Munger Oil Information Services
O'Meara & Rogers Construction Co.
Regan Offshore International, Inc.
Reese Sales, Inc.
Schlumberger Offshore Services
Strata-Log
Welex

NATIONAL AAPG

Two prominent geologists from the East Coast will head the American Association of Petroleum Geologists' slate of candidates for 1975-76. Robert E. King, Mamaroneck, New York, and John D. Moody, New York City, will run for the office of president-elect. The names of these and other candidates were released today by Merrill W. Haas, current AAPG president.

King, with degrees from the University of Iowa and Yale, is currently a consultant and chairman of the board of Comoro Exploration, Ltd. King was born in Ann Arbor, Michigan, and began his career as a geologist with Texaco. He has held positions with several oil companies, including American Overseas Petroleum, Ltd., where he served as chief exploration geologist from 1956-68.

Moody, recently retired as Mobil Oil's senior vice president for exploration and producing, is now a consultant. He is a native of Denver and holds degrees from Colorado School of Mines. Moody's early experience was with Gulf Oil Corp. in various geological and management positions. He served as manager of exploration for Plymouth Oil Co. for two years prior to joining Mobil in 1962.

Both candidates have had extensive domestic and foreign experience in petroleum exploration and have made significant contributions to the geological literature.

The candidates for vice-president are successful consulting geologists from New Orleans. Frank C. Crawford, a native of Coushatta, Louisiana, holds degrees from Centenary College and LSU. He worked for Marathon Oil Co. from 1949 until 1966. Crawford now serves as general manager of Crawford Oil Co. Lee H. Meltzer was born in Chicago and graduated from the University of Chicago. He worked as a geologist with Union Producing from 1936 until leaving to establish his consulting practice in 1956.

Geologists from the Mid-Continent will run for a two-year term as secretary of the Association. Robey H. Clark, vice-president for exploration and production with Diamond Shamrock in Amarillo, will run against Herbert G. Davis, Oklahoma City independent and consulting geologist. Clark, a native of Mound, Louisiana, graduated from LSU and the University of Wisconsin. He worked for Mobil Oil from 1946 until leaving to join Diamond Shamrock in 1971. Davis, a native of Buffalo, New York, is a graduate of Oklahoma State and served in the U.S. Army Corps of Engineers and with Amoco prior to

entering consulting work in Oklahoma City where he served for four years as vice-president and exploration manager of D-N-C Exploration Corp.

Running unopposed for a two-year term as editor of the AAPG is Dr. John W. Shelton, professor of geology at Oklahoma State University. Shelton was born in China Springs, Texas, and received a B.A. in mathematics from Baylor and M.S. and Ph.D. degrees in geology from the University of Illinois. He worked for Shell as a geologist from 1953 until 1963 when he joined the OSU faculty.

The election will be held by mail ballot to the membership in the spring of 1975. The AAPG is the world's largest geological organization, with more than 16,000 members in all 50 states and in 80 foreign countries.

Northern California

Practical Politics. Congressman Pete McSquarechin was excited. Stuffing the paper in his pocket, he hurriedly downed his coffee, grabbed his raincoat and tore over to Senator Henry Jerkson's office.

"Look here, Skip," he said excitedly. "We've got it. The answer to the energy crisis." Quickly he slapped the paper from his pocket on the desk in front of the Senator. Adjusting his glasses, the Senator read:

Russians Say Dogs Sniff Out Ore Deposits

Moscow — Russian geologists have successfully trained dogs to sniff out ore deposits, says the publication *Chemical Week*. One dog is reported to have found a sulfide ore deposit 10 to 12 feet thick under seven feet of earth. And in Finland, where such work was first done, a dog is said to have found 1,330 ore-containing rocks where a man could only find 270.

The Senator rose and clapped Congressman Squarechin on the back. "Pete, I believe you've got something. But wait — this item refers to ore deposits. We need oil."

"So what?" snorted the Congressman. "Ore's a mineral. Oil's a mineral. What's the difference? A dog that can smell ore can smell oil, can't he? Now let's you and me exercise some leadership and draft a bill that will . . ."

Sadly we close the door on the two leaders-of-the-people huddling over the desk, framing momentous actions

for the benefit of the suffering American public.

Two weeks elapse. Pajama-clad John Bayer, USGS petroleum research coordinator of Menlo Park, stumbles out of bed, fumbles for the morning paper on the front porch and grumbles over the warmed-up coffee. Eyes, bleary from long hours of overwork, focus on the lead headline in the *San Francisco Chronicle* . . .

U.S. In New Race With Russians

Washington, D.C. — In a desperate attempt to beat the Russians in a race for self-sufficiency in oil, the Federal Government has directed the Department of the Interior to replace all geologists of the U.S. Geological Survey with dogs. According to Russian scientists, dogs can be trained to sniff out five times as much oil below the ground as a man who sees nothing but sand.

Current meetings are being held on the congressional level to determine if the Director and his administrative staff should be retained or whether quicker results could be obtained through an "All Dog Sniff-From-The-Top" policy. It has been reported that Jack Anderson's man, listening from crawl space under the Bureau of the Budget building in Washington, D.C., heard a suggestion that the new Canine Oil Corps be headed up by "Lassie" with a daily dish offering of 20 pounds of guaranteed all-meat mix.

Realizing that dogs will cost more than geologists, some congressmen are said to be organizing a fox hunt to finance the new Corps by tax savings from a tally-ho effort to eliminate the oil depletion allowance. Names proposed for *Master of the Hounds* are Ronald Reagan, unemployed ex-governor of California; Mayor Alioto of San Francisco who may soon be unemployed; Richard Nixon, unemployed; Jimmy Hoffa.

Slowly John Bayer drags himself back to bed and pulls the covers up over his head.

✻ ✻ ✻

Now for the Good News. Richard L. Jones, our NCGS treasurer, comes from Evanston, Illinois. After a Bachelor of Science at Colgate in 1947 and an MS at Syracuse in 1949, Dick joined Standard of Cal. and has sailed steady-as-you-go in that seaworthy ship. His job is Division Stratigrapher of the Alaskan Division. Presumably he has passed all sourdough tests. Last year he was NCGS Membership Committee chairman and now lends a steady hand to a lean NCGS check-

(continued on page 6)

NORTHERN CALIFORNIA...

(from page 5)

book. And right next to all that SoCal dough. Hmmmmm.

Women in Geology. Our nomination for *Sweetheart of NCGS* goes to 24-year-old Jean F. DeMouthe Smith of Dublin, California, wife of Ted C. Smith who works for Mines and Geology in San Francisco.

We asked her why she selected geology as a vocation. "It started gradually with a few courses in geology at DeAnza College in 1968," she replied. "I caught the geology bug from an excellent teacher and switched over from music. My BA came from Humboldt State and, later, graduate work followed from Humboldt, Bakersfield and San Jose State colleges." Do you work at it now?" we asked. "In two places," she replied. "Assistant curator in fossil collections at the California Academy of Sciences and staff engineering geologist with a firm in Mt. View." (Mentally I counted about 100 miles in that round trip. Who gets dinner?)

In addition to five professional affiliations, Jean finds time for drawing, writing, riding, photography, music, conchology, gardening and embroidery. "I use only my own original designs," she says. "I've written a book on horse colorations and markings and am looking for a publisher. I illustrated it myself and will provide my own color photos." (Anyone know of a publisher for Jean's book?)

Male chauvinism, we asked? "Yes I've met with some in my short career, but I find that those men who do not wish women in geology are usually insecure in their own positions or unsure of their knowledge and abilities. The people whose opinion I value most highly judge me on my ability and not on my sex."

Congratulations to Theodore C. Smith. He struck the lode with his first pick.

Notes to Golfers

*If thee would not a hacker be,
Keep a steady head and a firm right knee.*

Back low and slow with a rhythmic beat

And start your downswing with your feet.

A caddy at St. Andrews was teaching a geology professor to play the noble game. Finally, out of patience, the caddy sputtered, "Ye see perfereser, learnin' thae lads to pick up rocks is easy work, but when ye come to play golf ye maun hae a heid."

OTTMAR F. KOTICK

Pacific Section

The Los Angeles Basin Geological Society will host the 50th Annual Meeting of the Pacific Sections of the AAPG, SEPM, and SEG on the Queen Mary in Long Beach, California, on April 23, 24, 25, 26, 1975.

The gathering will begin with a princely cocktail party cruise of the modern harbor area in the vicinity of the Queen Mary and the picturesque drilling islands on Wednesday evening, April 23rd.

A field trip along the important Whittier fault trace on April 26th will finalize the meeting.

Technical papers will explore the present and future energy sources of our Pacific Coast, with emphasis on offshore areas.

Registration begins Wednesday afternoon, April 23rd, aboard the Queen Mary.

BRUCE M. BARRON
General Chairman

San Joaquin

NO REPORT.

LOST BAJA GUIDEBOOKS!

Most of the 1974 Baja Field Trip Guidebooks were lost, or misplaced, at the San Diego Convention. If not found, the guidebook will be reprinted at great cost to the Pacific Section. If you have any info on their whereabouts, please notify, as soon as possible, Carl A. Evans, Texaco Inc., 3350 Wilshire Blvd., Los Angeles, Calif. 90010, Tel: (213) 385-0515.

New Membership Directory

A new Pacific Section AAPG-SEPM-SEG Membership Directory is being prepared. All members should receive a questionnaire in the mail. Please fill out completely and legibly and return no later than **January 5, 1975**. Questionnaires received after the deadline cannot be included in the Directory.

Mail reply to:

Judy Hughes, Membership Secy.
P.O. Box 17486, Foy Station
Los Angeles, Calif. 90017

Sacramento

NO REPORT.

Coast

Notice to Students: A program of "dinerships" is at this writing being formulated. All the details have not as yet been worked out, but the program would involve certain senior members of the society sponsoring all or most of the cost of a student's meal. If you are a student or know of students to whom cost is a discouraging factor in attending our meetings, contact Ed Hall, President CGS, 1003 Main Street, Santa Paula, Calif. 93060 or phone (805) 525-3112 for details.

The Coast Society was addressed on October 8, by Mr. Hunter Yarborough who gave a most interesting talk on *Plate Tectonics and the Occurrence of Major Hydrocarbon Accumulations*, an abstract of which was published in the August/September issue of the PPG NEWSLETTER.

We were honored by the appearance of Messrs. Merrill Haas and Fred Dix, Jr., of the AAPG on October 23. Mr. Haas discussed the lack of attention paid to warnings by the petroleum industry of impending energy problems. Now we are being blamed for something we warned of for years. He urged knowledgeable people representing professional organizations, to gain the confidence of policymakers through the medium of reliable information and integrity.

Our annual picnic and barbecue was held on September 21, unfortunately without notification in this publication. We were without the company of our hosts, Mr. and Mrs. E. J. "Red" Lagomarsino, due to Red's hospitalization for serious surgery. Red is out now, with prognosis for a slow recovery. Those of us who once again enjoyed a pleasant afternoon in Ojai at their ranch, and all of their many other friends, wish them both the best. Red has been made an honorary member of the Coast Society in appreciation for his many kindnesses over the years.

The Coast Geological Society has appointed Jack Cooper to state the views of the Society at public hearings of the South Central and State Coastal Commissions. The Commissions' staffs make findings and policy statements and submit them to the public at these hearings. The commissions appear to welcome input from professional organizations such as ours, and Jack's position as an experienced retired professional gives him both the credibility and the time.

At a recent meeting of the South Central Coastal Commission, respon-

sible for San Luis Obispo, Santa Barbara and Ventura Counties, five specific points were protested in an oral and written statement.

1. California's potentially recoverable reserves had been grossly overstated. More reliable figures were given.

2. California's future onshore petroleum resources were stated to be larger than those offshore. The staff actually included oil already produced onshore in these figures. It was pointed out that the onshore had been heavily worked for many years and that future potential offshore was much higher.

3. The Commission proposed that applicants for drilling in state offshore lands submit one-, five- and ten-year plans for future development of any discoveries. It was submitted that the five- and ten-year plans were impractical and should be omitted. Meaningful plans cannot be made that far in advance of any test drilling.

4. The Commission has proposed that all exploratory and production data from surveys or drilling of wells be submitted to government agencies within 60 days after finishing and be made public within one year. The Society's view was stated that a two-year retention of factual data would be satisfactory, but that the forced release of interpretative data should not be made under any circumstances. It was pointed out that the state DOG is currently studying this problem, and it was recommended that no detailed policy be adopted now until the many problems could be resolved to the satisfaction of government and industry.

5. The Commission had stated that oil field operations usually exclude all other use of the land. Jack replied that there are many examples of oil fields in the midst of citrus groves, truck farms, golf courses, cities, housing tracts, beaches, shopping centers, etc.

Burdette A. Ogle has agreed to represent the Coast Geological Society on the Public Information Committee of the Pacific Section. Mr. C. K. Ham will be alternate. Both men are consulting petroleum geologists at P.O. Box 5412, Santa Barbara, CA. 93108.

About People

The big news here is the departure of most of the CONOCO hands from Ventura. This diaspora will leave **Paul Siemon** and **Bob Beringer** here in Ventura as development geologists. The Ventura office will become an "exploitation task force" reporting to Denver. **Roger Hubbell** will move to Houston as an area geologist, respon-

sible for the northern part of the United States. **Bruce MacPherson** will move to Denver, in exploration; **Charlie Lee** will move to Denver, as an exploitation geologist; **Jim Brown**, recently a proud papa, will move in a month or two, destination to be announced.

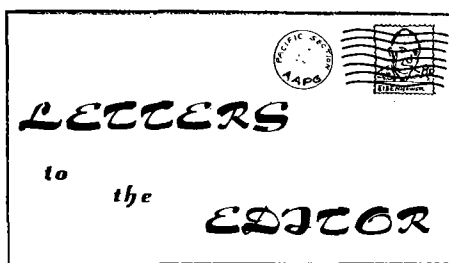
A new hand at GETTY in Ventura is **Roger Haworth**. Roger is an alumnus of San Diego State.

Howard Stark has left ARGO PETROLEUM and is now consulting on his own.

Jim Thompson, formerly of ARGO, is now with Bill Osborne's Exploration Services group.

Ralph Cahill has been promoted to district geologist with ARGO.

R. L. STEWART



In the August/September issue of PACIFIC PETROLEUM GEOLOGIST NEWSLETTER in the column "Letters to the Editor" was a letter disagreeing with the stand taken by AAPG President M. W. Haas at the Dept. of the Interior hearing on the proposed regulation regarding disclosure of geological and geophysical information on the offshore continental shelves of the United States.

I would like to point out that the main objection to this proposal was the requirement that *all interpretative data* be disclosed. In my opinion, this should be opposed by all petroleum geologists company or independent. President Haas stated that a geologist's interpretation should be valued and protected as a copyrighted document not to be taken away and distributed to those that request it. As professional geologists, we gain a livelihood by generating ideas and recording them in workable and comprehensive form. These recorded ideas belong to those who have originated them and to those who have paid for them.

A number of independent geologists attended this hearing and testified against the proposed regulations.

As a result of this testimony, the Dept. of the Interior has indicated that it will revise its proposed regulations on this subject. The government already receives the geological information on all wells drilled on its properties.

President Haas' testimony was strictly in regard to the Dept. of the Interior's regulations in offshore areas and should not be construed as opposing the release of geological well data after a prudent period of time as is now required in many states but which is not currently required in California.

JOHN E. KILKENNY

Mr. Siegfried H. Hammann's recent letter to the editor takes a different view of my comments before the Department of Interior than I intended. I am not opposed to the release of factual data to government, the industry, or the public — in fact, this is currently the practice in many areas. I do oppose the release of interpretative data.

I trust this statement clarified my viewpoint.

Sincerely,

MERRILL W. HAAS

I was introduced to Mr. M. W. Haas through correspondence of a good mutual friend, Mr. G. Moses Knebel. As most of you will know, Moses was justly honored with the Sidney Powers Memorial Award at the AAPG convention in San Antonio, Texas, earlier this year. I've never met Mr. Haas in person, but through the letter of introduction I wrote Mr. Haas on 27 February 1974 pointing out what a raw deal the industry was getting in Washington, D.C., as well as through the news media. Mr. Jerry Dunphy of KNXT news, Channel 2, is a friend of mine and I had asked him if he might be of some help in getting the oil industry's story before the people. He said he felt he could if he had the right information. I told Mr. Haas about this opportunity and concluded the letter as follows: "I can appreciate your reluctance to offer any kind of rebuttal to any news media but there is always the hope that someone would tell the straight story. I know of the tremendous amount of money and research you have done in locating off-shore oil and gas seeps and where they are deposited on the California beaches. I also know that a vast majority of Californians are unaware of the tremendous boost the off-shore reserves could be to the energy crisis if the oil companies were not ham-strung politically as well as ecologically." This letter was never answered.

April 25, 1974, I again wrote Mr. Haas congratulating him on being elected president of the AAPG, for
(continued on page 8)

LETTERS TO THE EDITOR...

(from page 7)

having \$100,000.00 donated to the Kansas University Geology Department in his name, agreeing with his President's Page report in the April 1974 AAPG Bulletin, and in the last paragraph reminding him that he had not answered what I felt was a very business-like letter. My last sentence pointed out that I hoped he would handle the business of the AAPG better than he handled his correspondence.

May 7, 1974, Mr. Haas wrote saying that he regretted having me feel I was neglected and that my letter had been passed on to the Public Relations department for action. He said that he knew Mr. Jerry Dunphy and that he was instructing the public relations man for California, Mr. Ken Fountain in Exxon's Los Angeles office, to contact me and Mr. Dunphy regarding this matter. To date neither Mr. Dunphy, KNXT nor I have heard from Mr. Fountain or Mr. Haas.

The point of this letter is this: Mr. Haas has no obligation to me regarding any suggestions I might make to him, no obligation to answer my letters, and actually no obligation to perform even those tasks which he volunteers to perform. In his capacity as an executive for Exxon he is in the position to formulate company policy and his employees must conform or resign. However, Mr. Haas must play an entirely different role as president of my organization, AAPG. He should not formulate policy nor should he testify before political committees as to the feeling of AAPG on critical is-

sues unless he has first given the membership a chance to speak out.

I therefore join with Mr. Siegfried H. Hamann, a person that I have never met, in his opinion expressed in his letter to the editor published in the August/September 1974 issue that Mr. Haas did not in fact speak for the AAPG in his testimony before the Department of the Interior earlier this year.

Most sincerely,

O. W. "BUZZ" FAUNTLEROY

✱ ✱ ✱

Your talented Northern California scribe modestly failed to mention that he prepared 107 press releases for the Circum-Pacific Energy and Mineral Resources Conference, a record that is unlikely to ever be equalled. He struggled with such words as "paleozoogeographic" and "biopaleogeographic" in a valiant effort to breath life into some deathly dull abstracts and to create an aura of mysticism and interest that some newspaper editor would see fit to print. He related a paper on fluorite to the beautiful teeth of Miss Universe and he managed somehow to relate porphyry copper deposits to dinosaurs laying eggs! His success can be measured in part by the incredible mob scene when extra copies of the press releases were made available to conference delegates — about 8,000 copies were gone in 40 minutes. My hat is off to Ottmar Kotick for a job well done.

Sincerely,

EARL E. BRABB

Publicity Chairman

Circum-Pacific Energy and Mineral Resources Conference

Along with a letter about the oil shale problems of the PISCANCE BASIN in Colorado which was sent to a friend I added the following:

If any of your erudite friends ever say that the Pisceance Creek Basin is named for the Pisceance Indians, I hope you will put them straight.

USGS geologists in working in the area noticed an extraordinary number of piss ants and started calling the creek by that name.

When it came time to prepare maps and reports the name had become definitely established — but what to do about it? You can see they solved it in a very acceptable manner.

I had a similar problem once in Rumania. An anticline I had mapped passed through the village of SCHITUL — "The Skeet" if pronounced in Rumanian and translated. I found myself referring to the Schit anticline, but pronouncing it as the Rumanians — Skeet. A New York visitor saw it on one of my maps and pronounced it his way — the first time I had noticed it.

We got around that by changing the name entirely.

Note: The authority for the Pisceance name was A. E. Fath, a USGS geologist for whom I did the plane table work when he mapped the Eldorado Oil Field anticline in Kansas in 1917.

Sincerely yours,

RAY P. WALTERS

Northwest
NO REPORT.

NEWSLETTER

Pacific Section A.A.P.G.

P.O. Box 17486 Foy Station

Los Angeles, California 90017