CHRISTMAS DANCE - 1968

The annual Christmas Dance held on December 6, appears to have been an outstanding success! 79 couples enjoyed a pleasant evening of eating, dancing, and etc.

Many thanks to Bill Hunter and his crew - Bruce Barron, reservations and ticket sales, and Dennis Allen, publicity.

The "Tranquility Hour" and door prizes were sponsored by the following firms whose generous contributions are greatly appreciated.

A & A Oil Tool Service Co.
Baroid Division, National Lead Co.
Bendix-United Geophysical Corp.
Borst & Giddens, Logging Service
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R. F. Smith Corp.
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United Directional Services, Inc.
Walex, Inc.
Western Geophysical Co.

ALUMNI LUNCHEON

Manuel Castro, Alumni Chairman for the 1969 Pacific Section Convention, would like to hear from those wishing to set up Alumni Luncheons at that time. Anyone wishing to do so should contact him prior to Jan. 20, 1969. His address is 1508 Wilshire Blvd., Suite 221, Los Angeles, Calif. 90017. Phone: 438-2909.

CALIFORNIA SECTION AIPG ELElCTS OFFICERS

Newly elected officers of the AIPG (California Section) are from left to right: Bennie W. Troxel - Secretary Treasurer
Jay G. Marks - President
John C. Manning - 1st Vice President
Stanford Eschner - Executive Committeeman
William B. Beatty - Executive Committeeman
Willard J. Classen Jr. - Exec. Committeeman

SEPM ELECTIONS

Lloyd C. Pray, Professor of Geology at the University of Wisconsin, has been elected President of the Society of Economic Paleontologists and Mineralogists. Other officers elected are:

Vice-President - Orville L. Bandy, USC Counselor for Paleontology
Counselor for Paleontology - Donald F. Toomey, Pan American Research Lab.
Counselor for Mineralogy - Robert J. Dunham, Shell Development Co.
Editors of the Journal of Paleontology - Raymond L. Ethington
Raymond F. Peck, both from the Univ. of Mo.
Secretary-Treasurer - Robert H. Dott, Jr. (Incumbent) Univ. of Wisconsin.

The above officers, together with Past-President Robert N. Ginsburg of The Johns Hopkins University and Gerald M. Friedman, Rensselaer Polytechnic Institute, Editor of the Journal of Sedimentary Petrology, will comprise the nine member council of the Society.
EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

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Rodney G. Colvin Vice President
John N. Terpening Secretary
Willis R. Brown Treasurer
Ted L. Bear Past President
Bruce A. Black Editor
Morton Polugar San Joaquin Delegate
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John P. Gates Alaska Delegate

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Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST
Published monthly by the Pacific Section
American Association of Petroleum Geologists

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William J. Hughes, Texaco Inc., 1215 East San Antonio Drive, Long Beach, Calif. 90807

Orders for Pacific Section publications and prior year's PPG should be addressed to: Pacific Section Publications, 3132 18th Street, Bakersfield, Calif. 93308

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San Joaquin
Membership
Secretary  Barbara Tetard

NOTICE: NEXT DEADLINE JANUARY 15, 1969

L.A. BASIN GEOLOGICAL SOCIETY

The L. A. Basin Geological Society 27 November meeting was highlighted by the election of new officers. Mr. Tom W. Redin, Union, was selected 1969 chairman and Mr. William Q. Calkins, Standard, was selected 1969 financial advisor. Some 62 local geologists enjoyed a barbecue steak and red wine feast followed by a talk on "The Geology and Petroleum Possibilities of the San Gabriel Basin" by Howard Stark, consultant. Of particular interest were the Pliocene paleogeologic maps shown and the tectonic history with respect to source beds and reservoir rocks. The MCSPMPS combine put on the barbecue (McCullock-Sun-Marathon-American-Petrofina-Pauley-Signal).

EXECUTIVE COMMITTEE MEETING
December 10, 1968

Highlights of the meeting follow:

Treasurer's Report--The books of the Section are under routine scrutiny by the Internal Revenue Service. No problems are anticipated.

Mr. Black expressed concern of the members in Sacramento over large expenditures by the Excom. It was agreed that this authority is vested in the Excom, and the local sections each have proper representation.

Vice President's Report--A four-man board has been appointed to review papers to be included in Don Weaver's Santa Barbara publication:

A. D. Warren - Mobile (SEPM)
R. Pierce - USGS
R. Kraetisch - Standard (AAPG)
J. Schoellheimer - USGS

President's Report--State of Constitution. Tom Baldwin, the local constitutional representative disagrees severely with the draft of the new constitution. The draft will be published in the February issue of the AAPG.

A special luncheon of all the district representatives will be held with Dr. Counselman, Nat. Pres. AAPG, during the Spring Convention at the International Hotel. At that time he will give his version of the constitution and either Bill Moran or Tom Baldwin will present theirs.

Pacific Section 1970 Convention. March 25 - 27 (approximate date). R. Knapp, site chairman, recommends either the International Hotel, Disneyland, or The Newporter Inn. It was unanimously agreed that the Newporter Inn is the place.

SPRING PICNIC

Mark Weidle*, Shell Oil Co., has been appointed Chairman of the 1969 Spring Picnic.
**SPRING FIELD TRIP**

Bob Hacker, Chairman of the Spring Field Trip, announces the following schedule:

Saturday, March 29, assemble at International Hotel at 7:30 AM to board charter buses for Ventura via Santa Monica Mountains, Conejo Valley and Oxnard Plains.

Field discussion at Ventura Avenue Oil Field covering structure and stratigraphy, and world-famous landslide control sites. This will be followed by field examination of the axial outcrop of the San Miguelito Oil Field. The trip will then continue north along the coast to Carpenteria for a beach discussion of Santa Barbara Channel offshores developments and conclude with a barbeque.

The return trip will be via the coast route Point Mugu-Malibu to International Hotel.

The cost, including guide book and barbeque, will be $5.00 to $7.00, and attendance will be limited to 135.

Tour guides will be: L. C. McFarland, Ed Hall, Hank Neal, Dick Haines, Bud Ogle, Ron Heck, John Truex, and Bob Hacker.

**AAPG EXPANDS STUDENT PROGRAM**

A program of employment for geology students, successfully piloted in Oklahoma last summer by the American Association of Petroleum Geologists, is being expanded nationwide, President Frank B. Conselman announced.

During the pilot program, supported by AAPG member Gov. Dewey Bartlett of Oklahoma, 27 students from 19 out-of-state universities were employed by 14 oil companies.

Next summer, 150 universities and 300 oil companies will be invited to participate, AAPG officials said.

Dr. James L. Martin, Jr., Chief Geologist for Sinclair Oil Co.'s domestic division, heads the AAPG's student program committee. AAPG headquarters in Tulsa will serve as a clearing house to match oil company requirements with student requests.

**GEOLOGICAL ATTRITION**

AAPG is conducting a study of attrition among geologists, the cause for geologists leaving the ranks of the profession. Whom do you know that is no longer practicing geology? Those who leave even "early retirement" as well as for the more usual causes should be included. Questionnaires will later be sent the AAPG to the people you list: all we need now is the names and addresses of those who have left the profession. Send your list.

Mr. Frederick L. Stead, Chairman AAPG (Calsection) Professional Employment Standards Committee 22706 Pacific Coast Highway Malibu, California 90265

**WHERE YOUR MONEY GOES**

For the benefit of those members who occasionally wonder where their money goes, particularly the Pacific Section dues of $3.50 per year, we submit the following:

Approximate monthly cost of printing and mailing the PPG Newsletter $300.00. Eleven issues per year $3300.00

Number of paid up members 950 + Annual dues $3.50 x 950 = $3325.00

The newsletter is presently being mailed 3rd class rather than under bulk rate. This about doubles the mailing cost but cuts the distribution time from as much as 3 weeks down to a week or less.

Funds for other Pacific Section and local society expenses such as announcements, distinguished lecture expenses, postage, etc. must be raised by other means—conventions, picnics, monthly dinner meetings or what have you.

**DISTINGUISHED LECTURE SERIES**

Lewis G. Weeks, geological consultant, will present his distinguished lecture before the Los Angeles Basin Geological Society on Jan. 17, 1969 at the luncheon meeting at the Rodger Young Auditorium. Mr. Weeks will speak on Oil Exploration in Australia, With Case History Lessons.

Mr. Weeks has had a long and varied career from the time of his graduation from the University of Wisconsin in 1917 as a geologist. Starting out as a mining engineer in Mexico and the southwest United States, he eventually became Chief Geologist for the Standard Oil Company of New Jersey. Since 1938, he has been a geological consultant working on both industry and governmental assignments on a world wide basis.

**PERSONAL ITEMS**

We understand Bob Hacker, Spring Field Trip Chairman, hurrying to a meeting with his tour guides, ran out of gas on the freeway. Hopefully, he will not extend his organizing to his charter buses but will "leave the driving to us".

Dave Day has joined Arrowhead Exploration Co. as their California representative. His office is at 1731 - 28th Street, Bakersfield.

Wes Bruer will start on his new job the first of the year. He will become the Special Consultant to the State of Cali. Department of Conservation in Sacramento. He will be working out of the Resources Bldg., 1416 - 9th Street, Sacramento 95814.
Joe Ernst, late of Texaco, New Orleans, has returned to the west coast and is now associated with Pacific Oil and Gas Development Corporation as Vice President, and Exploration Manager. Joe will be headquartered in San Francisco and living in Danville.

Other Texaco personnel changes include Bill Bedford to Los Angeles as Assistant Division Geologist, Glen Ware to Bakersfield as District Geologist and John West to the Anchorage District in Long Beach as Special Projects Geologist.

Arthur S. Huey, Consulting Geologist, was recently elected President and a Director of Oil Securities and Metals Corp., a Utah corporation, with holdings in the Rockies and some in California. Head offices have been moved from Salt Lake City to Suite 531, Mobil Bldg., 612 South Flower St., Los Angeles, Calif. 90017. Phone 662-6946.

Bob Saunders, District Expl. Supt. for Union in Bakersfield, has been transferred to Anchorage, Alaska to head up their newly formed Northern Alaska District. Jack Padgett, also of Bakersfield, will accompany Bob northward.

GEOLOGISTS NEED A PROFESSIONAL ORGANIZATION

Geology as a profession is not all that it could be. Some attempts are being made to improve it; but such efforts are initiated and sustained by a remarkably small percentage of the practicing geologists. Recently the geological profession in California was successful in getting a bill (the Geologist Act) passed that will at last give its qualified practitioners legal recognition. As of this date (December 17, 1968) the Act has not been put into effect because of problems raised by the department under which the proposed Board of Geologists will eventually function. A handful of geologists, members of the one small professional geological organization that does exist, are attempting with apparent success but considerable sacrifice of their time to get the Act carried into effect. Help has been offered by a firm of legislative advocates, who include in their services a watchdog surveillance of all legislation that might adversely affect the practice of geology whether it is connected with the Geologist Act or not. But alas! the one small professional geological organization has not the finances to retain expert help of this kind. Nor will the relatively large scientific societies lend assistance, for they are forbidden to lobby. Only a professional group with a special tax status can afford to lobby for its own interest, and only a strong one can be consistently effective.

The American Institute of Professional Geologists is logically the guardian of the ethics of its members. It must be, because its principal objective is to enhance the profession, to obtain quality. In the same vein, it seeks quality in the fees its practitioners receive, not by the device of collective bargaining, but by educating both its members and their employers to recognize that fair pay is mutual benefit. Its approach is different from that of the Council of Engineer and Scientific Organizations, a recently formed group, whose avowed purpose is collective bargaining. Our professional organization studies the relations between disciplines and with government agencies in order to eliminate conflict and duplication. And it works with educators at all levels to improve the quality of education in geology. The desire for quality is presumably an attribute of every member of a profession, but only a professional organization is set up systematically to seek and cultivate quality in all its aspects.

Individual geologists and scientific societies tend to specialize, thereby losing the broad perspective of their profession. The petroleum geologist has little rapport with the urban geologist. But the demand for petroleum geologists is shrinking, and a new field, that of environmental geology, is developing. Environmental geology includes the work of the urban geologist, the petroleum geologist, the ground-water specialist, and a host of other disciplines. Here is a field, as yet vaguely defined, of tremendous potential, into which the highly developed talents of all kinds of geologists could logically expand. An organization that represents the entire profession of geology is the suitable vehicle for developing this new field.

The one small organization that is attempting all of these things, and many more, is the American Institute of Professional Geologists. Although small in numbers (about 1800), with many overworked committee members, it has already set about improving the scene nationally. Its California Section, consisting of approximately 260 members, has shown an ability to work together and accomplish desired ends. But neither the national nor the California group has the numbers or the finances to do the things that will ensure a full development of geology as a profession. If you are a qualified geologist, should you not lend your support, and from time to time, your talents, to the organization that can and will improve your profession, your lot and your future?

For further information about AIPG write to the headquarters office, P. O. Box 836, Golden, Colorado 80401. Members who reside in California are automatically members of the California Section.

Jay G. Marks
President, California Section,
American Institute of Professional Geologists
BIBLIOGRAPHY
OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

MAPS:
GQ 746: Geologic map of the Mine Mountain quad. Nye County, Nev., by P. P. Orkild $1.00

GQ 758: Geologic map of the Riepetown quad. White Pine County, Nev., by A. L. Brokaw & P. J. Barosh. $1.00

GQ 761: Geologic map of the Ackerman Canyon quad Lander & Eureka Counties, Nev., by E. H. McKee, $1.00

HA 298: Average annual precipitation and runoff in north coastal California, by S. E. Rantz. $.75

1-550: Surficial geologic map of Yucca Flat, Nye & Lincoln Counties, Nev., by A. T. Fernald, G. S. Corchary, & W. P. Williams. $1.00

Geophysical Abstracts 262, November 1968 45c

Abstracts of North American Geology, October, 1968 45c


Circular 396: Preliminary result of geological, geochemical and geophysical studies in part of the Virginia City quadrangle, Nevada, by D. H. Whitebread and D. R. Hoover. Free.

AMERICAN JOURNAL OF SCIENCE, vol. 266, no. 10, 1968

Oxygen isotope study of calcite and silicates of the River Ranch no. 1 well, Salton Sea geothermal field, California, by R. N. Clayton, L. J. P. Muffler and D. E. White

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 79, no. 12, December 1968


Tertiary tectonics of the White Pine--Grant Range region, East-Central Nevada, and some regional implications, by E. M. Moores, R. B. Scott and W. W. Lumsden

Regional metamorphism, metasomatism and partial fusion in the northwestern part of the Okanogan Range, Washington, by James W. Hawkins, Jr.

The role of displacements in analytical structural geology, by J. H. Howard.

Seismic evidence for the thickness of Cenozoic deposits in Mono Basin, California, by L. C. Pakiser.

Aquilapollenites: Fossil pollen as seen under the scanning electron microscope, by Charles M. Drew and Bernadine D. Tschudy.

CALENDAR


January 16, 1969 - San Joaquin Geological Society Royal Palms Motel, Union Avenue, Cocktails 6:00 P.M., Dinner 7:00 P.M. $4.00. AAPG Distinguished Lecture Tour Lewis G. Weeks - "Oil Exploration in Australia, with Case History Lessons".

January 17, 1969 - Los Angeles Geological Society Friday Luncheon Meeting, Roger Young Auditorium, Washington Blvd., 12:00 Noon, $3.00. AAPG Distinguished Lecture Tour Lewis G. Weeks - "Oil Exploration in Australia, with Case History Lessons".

January 21, 1969 - Sacramento Petroleum Association & Geological Society of Sacramento AAPG Distinguished Lecture Tour L. G. Weeks - "Oil Exploration in Australia, with Case History Lessons" Water Resources Bldg., 9th & "O" St., Sacramento, 8:00 P.M.


THIS SPACE RESERVED FOR PERSONAL ITEMS NOT RECEIVED
ASSOCIATION ACTIVITIES

PROPOSED NEW AAPG CONSTITUTION

The January issue of the AAPG reported that Dr. Frank B. Conselman, AAPG National President, would meet with the District Representatives during the Pacific Section Convention to discuss the proposed changes to the constitution.

In order to permit the largest possible attendance, at the discussion, Dr. Conselman has consented to explain the views of National Headquarters during the regular business meeting. This business meeting will be held on Friday afternoon, March 28, during the convention at the International Hotel. It should be pointed out that this is in no way a debate, but it will permit the dissenting members of the Pacific Section to express their views. A number of our District Representatives have also expressed concern over some of the proposed changes.

In the meantime, it behooves the membership at large to read the proposed new constitution which is scheduled to be printed in the February issue of the AAPG Bulletin.

L. J. Simon
President,
AAPG Pacific Section

After careful study should you feel that this document is perfect you will wish to vote its passage; if, however, you conclude that some portions are unsatisfactory I urge that you communicate with Pres. Conselman immediately and suggest changes.

I suggest that some of you may find objectionable the lack of any specified process for changing the dues particularly since the proposed constitution (Article V) provides that "Any responsibility...not otherwise specified...shall be reserved to the Executive Committee."

I hope a large proportion of our DR's will attend the Dallas convention because the Business Committee will be faced with a dilemma new in AAPG history - to vote for or against a new constitution as a "Package" with no possibility of effecting changes during our meeting. If, at Dallas, you feel that substantial faults remain in the proposal you will presumably wish to vote against it. If you conclude that the document, on balance, is good with only minor flaws then you will wish to consider whether such flaws could be corrected by later amendment (as Pres. Conselman suggests) or whether in fact later amendments would be difficult, perhaps impossible once the proposal has been accepted. In this light the all important phrases are those relative to the method of amendment of the new constitution and by laws. I summarize my own interpretation.

Amending the Constitution

1. The Executive Committee shall determine the "Legality of all proposals to amend the constitution before our delegates can discuss them (Art. VIII Sec. 3).

2. No means is provided for our delegates to propose a constitutional amendment themselves.

3. The general membership can propose a constitutional amendment by petition of 50 members (in past only 10 were required) (Art. VIII Sec. 2 (c)).

4. All amendments must be considered during the annual meeting only (only one effective meeting each year). (Art. VIII Sec. 2 (c)).

5. A 2/3 vote of our membership is required to approve an amendment (in the past, a simple majority).
EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

Louis J. Simon, President
Rodney G. Colvin, Vice President
John N. Terpening, Secretary
Willis R. Brown, Treasurer
Ted L. Bear, Past President
William J. Hughes, Editor
Morton Polugar, San Joaquin Delegate
Frederic R. Kelly, N. Calif. Delegate
D. E. Ritzius, Coastal Delegate
J. D. Traxler, Los Angeles Delegate
Bruce D. Brooks, Sacramento Delegate
John F. Gates, Alaska Delegate

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Membership Secretary
Barbara Tetard

NEXT DEADLINE FEBRUARY 15, 1969

6. Before the delegates can transact any business a 50% quorum of elected delegates must be established (no proxies permitted).

Amending the By-Laws

1. Since no means of proposing an amendment is provided this responsibility would be "...reserved to the Executive Committee.")

2. Our elected delegates could not propose an amendment (since no discussion of amendments could occur until after the Executive Committee determined legality and approved publication in the Bulletin two months prior to the annual meeting).

3. Quorum - a majority of all elected delegates, no proxies permitted.

In my opinion these factors would mean that our elected delegates could not propose, discuss or pass amendments to the constitution or the By-Laws except at the will of the Executive Committee.

For these reasons (and many other more lengthy ones) I shall forcefully oppose passage of the new constitution and By-Laws. I hope to see the proposals soundly defeated.

Very truly yours,

T. A. Baldwin

A.A.P.G. Study of Subsurface Waste Disposal

A decade-long study by members of the American Association of Petroleum Geologists has resulted in an authoritative book on subsurface waste disposal possibilities in five major structural basins in the United States.


John E. Galley, a geological consultant, of Kerrville, Texas, edited the book. Nine detailed papers on the subject are included in the book.

Dr. Frank B. Conselman, Abilene, Texas, President of A.A.P.G., said that the book demonstrates an awareness of social responsibility on the part of the members of the Association, and indicates the extent to which petroleum geologists have broadened their field of practice. "As a matter of fact," Dr. Conselman said, "the study itself demonstrates the constant need for geologists to be called on for studies of the sort which require reference to the subsurface for information bearing on public safety and the national economy."

Galley also noted that although the study was undertaken specifically to study potential for disposing of radioactive waste, the book emphasizes disposal of industrial wastes in general because "the techniques proposed for disposal of radioactive waste are generally applicable to many other industrial wastes."
The book includes a general discussion of the problem of deep well injection of wastes, a study of the importance of locating nuclear fuel reprocessing plants near deep formations suitable for subsurface disposal, a discussion of the fluid mechanics of deep disposal wells, and papers on the detailed subsurface geology and waste disposal prospects in the New York portion of the Appalachian Basin, a syncline in Pennsylvania, the Michigan Basin, Salina Basin of Kansas, Denver Basin of Colorado, and the San Juan Basin of New Mexico and Colorado.

C.G.S. Christmas Dance

Another fine evening of champagne, dining and dancing was enjoyed by the 101 guests who attended the annual Coast Geological Society Christmas dinner dance held at the Ventura Women's Center on December 14. LeRoy Andrews band provided the music. Gordon Anderson, Chairman, announces that many thanks are due to the following contributors:

Anderson and Nibolkeris
Harold Well Logging Services
Bret and Giddens
Caldwell, Inc.
Core Lab
Dresser Atlas
Exploration Logging
Geologic Engineering Service
Global Marine, Inc.
Goddard and Hughes (A. Hughes)
Johnston Testers
Munger Oil Information Service
Pacific-Oilwell Logging, Inc.
Petroleum
Scope Industries (Sun-Camay Drilling)
Schlumberger Well Services

Hope we see all again next year!

TENNECO MOVES

On December 16, 1968 Tenneco Oil Company and Kern County Land Company Oil-Division will move to their new offices at 201 New Stine Road, Bakersfield, California. This move affects the following Bakersfield offices:

Pacific Coast Division
2601 P Street
Post Office Box 380
Telephone 323-2985
District Thermal
10th at Oak Sts.
P. O. Box 1996
Tel. 323-0307

District Production
3845 Stockdale Hwy.
Post Office Box 380
Telephone 327-5544

The new mailing address for Tenneco Oil Company and Kern County Land Company Oil Division will be Post Office Box 1996, Bakersfield, California 93303; the telephone number will be 323-9010. Please change your records accordingly.

LOS ANGELES BASIN GEOLOGICAL SOCIETY

Some 180 geologists attended the January 17 luncheon meeting of the Los Angeles Basin Geological Society to hear Lewis G. Weeks, geological consultant, speak on "Oil Exploration in Australia, With Case History Lessons".

Local geologists are to be commended for turning out in such numbers. It should be pointed out, however, that the decision to attend these meetings should be made far enough in advance to return the reservation card. When 129 reservations are received and 180 people attend, even the experienced Roger Young kitchen staff can become unglued. Unfortunately, the breakdown in service affects everyone, with or without reservations. PLAN AHEAD!

ABSTRACT

A somewhat unusual manner of handling the exploration of a 64,000 sq. mile offshore area in Bass Strait, Australia has resulted to date in seven major and two minor discoveries out of 16 "new field" wildcats. In addition, numerous stepout wells, all successful, have been drilled. All of these wells were dug offshore from a coast along which 140 dry holes had been drilled in unsuccessful exploration for oil over the past 44 years.

Reasons are explained why in spite of the discouragement onshore this particular offshore acreage was selected, and why a special manner of handling the exploration was followed.

The results of the exploration illustrate facts of oil occurrence which apply generally in young coastal basins, as is demonstrated repeatedly by the rapidly growing offshore exploration worldwide. Geological analysis, supported by various fundamental measurements, make it clear that the best part of most of the world's Cretaceous-Tertiary coastal basins lies offshore. Reasons for this are discussed.

Australia has approximately the same area as the 48 contiguous states of the United States, and it has similarly extensive sedimentary basins. Significant comparisons are made as between the largely Paleozoic basins on the land and the younger basins along the coasts.

In the search for oil on the Australian continent, some 2,000 wells have been drilled, and several tens of thousands of bores have been sunk for water in the sedimentary basins over the past 80 years. This effort was without commercial petroleum discovery prior to 1962. From 1962 on, several discoveries of oil and gas have been made on the land. The first offshore discovery was made in Bass Strait in 1965 and the first well drilled off the Australian continent.

Current Australian proved petroleum reserves are of the order of 2.5 billion barrels of crude and natural gas liquids, and 11 trillion cubic feet of gas. About 98% of the oil and 64% of the gas has been found in the Bass Strait offshore.
PRESERVATION OF SAMPLES AND CORES

An ambitious program to preserve well samples and cores has been undertaken by the A.A.P.G. Mr. John F. Harris, of Tulsa, Oklahoma, is the National Chairman for the program and A. Theodore (Ted) Lee, of Texaco Inc., has been appointed Pacific Section representative. Besides attempting to establish State operated sample and core depositories and libraries in all oil producing States, the program will attempt to establish a centrally located national depository and library for foreign samples and cores which could be made available to the Petroleum Industry and to all geologists.

Since California does not have a central core and sample storage facility, Ted states that his job appears to consist of being a watchdog to prevent mass destruction of California cores and samples. He would appreciate geologists continuing to take a personal interest in the preservation of cores and samples. If a company has an idle shed on an isolated lease and they would allow it to be used for an indefinite period of time as a standby, or when the need arises to store unwanted cores and samples, Ted would appreciate being notified. He realizes that this is a strange request, but based on experience in two previous occasions, we should be prepared to save a core and sample collection, because in the past little time has been allowed to find outside storage sheds.

Hopefully in the future, through a mutual arrangement between the Petroleum Industry and the California Division of Mines and Geology, a State operated sample and core depository and library could be established.

Anyone having an interest in the program for the Preservation of cores and samples should contact Ted Lee at Texaco.

DR. ELIOT BLACKWELDER

Dr. Eliot Blackwelder, Executive Head of the Department of Geology at Stanford University from 1922-1945 died January 14, 1969, at the age of 88. Although best known for his academic and scientific endeavors, Dr. Blackwelder served on the California Petroleum Committee in 1917, and was Chief Geologist of Argus Oil Company in Denver from 1919 to 1921.

Contributions to a book fund in Dr. Blackwelder's name at Stanford may be sent to Dr. Richard H. Janns, current Dean of Earth Sciences at Stanford University.

SPRING FIELD TRIP

Bob Hacker, Chairman of the Spring Field Trip, wishes to update his item appearing in the January issue. The cost, including guidebook, and what he persists in calling Friday night barbecue, will be somewhere around $12.00. Reproduction costs of additional maps and data necessitate this rise in price.

December 18, 1968

LEGISLATIVE BULLETIN: Board of Geologists (AB600)

The outcome of recent meetings held in Sacramento should remove all obstacles leading to the creation of the Board of Geologists.

A meeting was held between this reporter and officials of the Department of Professional and Vocational Standards (P & V) on December 10, 1968, to discuss the changes (amendments) which P & V felt were necessary to insure a totally legal and functional law.

Mr. Donald Livingston, the P & V official who has been assigned the task of guiding the establishment of the "agency", met with Assemblyman Ketchum, the author of AB 600, the following day to discuss the requested changes.

As a result of the above meetings, no changes will be made in AB 600. If, in the future, changes are deemed desirable or necessary, the Board will initiate this action.

A second important meeting was held on December 16. Those attending included a Deputy Attorney General, two attorneys from P & V and Bob Paschall, Mill Peak (Sacramento Engineering Geologist) and this reporter. The Attorney General's office had been requested by P & V and the Governor's office (Appointments Secretary) to render an opinion relative to the legality of implementing AB 600. The purpose of this meeting was to clarify the intent of AB 600 specifically in the area of actual practice.

In short, the law requires that all those practicing, or offering to practice, geology for others, or who write geological reports or compile geological maps, cross sections, etc., for others must be registered. Exemptions include employees of the U.S. Government, those geologists employed by companies or corporations (as long as at least one geologist is registered) and a geologist working as a subordinate to a Registered Geologist.

As a result of this meeting, all necessary procedures will be expedited in order to permit the creation of the Board at the earliest possible date. The Attorney General's office intends to abbreviate its usual opinion writing formalities as much as possible to help reduce the time lag.

The Department of P & V is presently studying the Board's needs relative to office facilities, clerical help, budget requirements, etc. The Department is compiling a mailing list of all geologists in the state. To date, there has been significant interest shown by out-of-state geologists.

At this point, it is impossible to know just when the Board will be formally appointed by the Governor. Once the Board is activated, it is obvious that considerable time will be required to draw up the forms and literature necessary
for registration. Realistically, it would seem that the Board will not be prepared to commence the process of registration prior to this spring.

January 11, 1969

LEGISLATIVE BULLETIN

The undersigned met with Messrs. Bernier and Shirley on January 9. These gentlemen are anxious to have the geologic profession in California utilize their services as lobbyists.

Bernier and Shirley are offering geologists a limited, but effective, lobbying service. The profession should consider this proposal very seriously. This "Minimum Service" is being offered for "$1,000 to $2,000" a year. Additional fees would be charged for specific and active lobbying. The fee for their comprehensive lobbying service is $15,000 a year.

Bernier and Shirley cautioned me (and the profession) about current developments within the Department of Professional and Vocational Standards (P & V). Henry Shine, the director, is planning to effect sweeping changes in P & V by means of new legislation. The gross intent of the contemplated legislation is the lessening of autonomy for the various boards in P & V. Our profession would be kept abreast of such developments via the proposed "Minimum Service".

MINIMUM SERVICE

Offered by Bernier and Shirley

1. Read and analyze all bills introduced during the 1969 session.
2. Screen those bills which in any way affect your profession.
3. Send copies of pertinent bills with analysis of same to the appropriate committee members of your association.
4. Identify pertinent bills as to likelihood of passage and interest group or agency sponsoring the particular legislation.
5. Our recommendations on what action, if any, your association should take regarding these bills.
6. Some limited contact with legislators identifying our firm as the legislative representatives for your organization.
7. Some minimal lobbying on those bills which would not require extensive time on our part.

(We emphasize that in those cases involving bills which your association should decide during the session are of crucial importance, and desire active lobbying and contact, additional negotiations would be necessary.)

January 20, 1969

LEGISLATIVE BULLETIN

The Board of Geologists in California has not yet been appointed.

The apparently favorable legal opinion on AB 600 written by an attorney in the Attorney General's office was still under study by other members of the staff on Friday, January 17th. The appointments will not be made until a formal favorable opinion is issued by the Attorney General's office.

The appointments will not be announced after they are made, until they are given security clearance, a procedure that usually requires about three weeks.

Respectfully submitted:

Roland J. Bain
Certified Professional Geol. Legislative Representative

SUBMARINE GEOLOGY

During the weekend of January 11 & 12, General Oceanographics, Inc. was host to an enthusiastic group of 17 Petroleum Geologists at a demonstration of their two-man submersible NEKTON. The capabilities of the NEKTON for underwater geologic mapping and sampling were demonstrated under open-sea diving conditions with each company representative acting as observer during one or more dives. General Oceanographics' marine geologists Jim Vernon, Dave Moore, Joe Curray, and Larry Headlee piloted NEKTON. A total of 25 dives were made during the two-day demonstration, which took place in the Redondo-Palos Verdes area. The deepest dive made during the demonstration was to 270' in Redondo Canyon, however, the NEKTON is designed to operate comfortably to 1000'.

SPRING CONVENTION

The AAPG Pacific Section Spring Convention to be held March 26, 27 and 28, 1969 at the International Hotel, Inglewood, already gives promise of being one of the highlights of the year. We understand that William H. LeRoy, Entertainment Chairman plans on starting it off with an ice breaker New Orleans Night on Wednesday evening the 26th, and finishing at the end of the convention with a dinner dance and free champagne.

NOMINATING COMMITTEE

Ted. L. Bear, chairman, announces that the other members of the Nominating Committee for the 1969-1970 AAPG Pacific Section officers are Robert R. Knapp, John E. Kilkenny and Thomas A. Baldwin.
CALENDAR


PERSONAL ITEMS

Irving T. (Irv.) Schwade, associated for the past 25 years with Richfield Oil Corp. and Atlantic Richfield, has been appointed Vice President, Energy and Mineral Resources, of Texfel Petroleum Corp. He will be responsible for the geological aspects of exploring and developing Texfel's existing properties located in North America, Europe and Africa, as well as evaluating new properties.

EX PPG Editor, Bruce Black, Shell Oil Co., reports himself and family comfortably settled in the Sunset Heights area of Farmington, New Mexico, where, each evening, he can watch the sun slowly set behind Shiprock, which certainly must beat the same event taking place over the houses across the street in Lakewood.


NURSERY NEWS

The J. R. Maytums (Jim and Sandy), Texaco, added a Thanksgiving Day daughter to their family.

BIBLIOGRAPHY OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY


Professional Paper 610: Principal gold-producing districts of the United States, by A. H. Koehnman and M. H. Bergendahl. $4.75

Bulletin 1271-A: Middle Miocene foraminifers and stratigraphic relations in the Adelaida quadrangle, San Luis Obispo County, Calif., by P. B. Smith and D. L. Durham. 20c

Geophysical Abstracts 263, December 1968 45c

Abstracts of North American Geology, November, 1968 (Subscription price of 12 monthly issues is $9.00/year; single copies are 45c.

Circular 563: Favorable areas for prospecting adjacent to the Roberts Mountains thrust in southern Lander County, Nev., by J. H. Stewart & E. H. McKeen. (reprinted 1968) Free

Circular 602: Sand and gravel on the continental shelf off the northeastern United States, by John Schlee. Free

Circular 603: Gold in meteorite and in the earth's crust, by R. S. Jones. Free


MAPS:

HA-314: Floods in Waimanalo area, Oahu, Hawaii, by Reuben Lee and W. C. F. Chang. 75c

Map 1-547: Geologic map of Fox Mountain quadrangle, Santa Barbara County, Calif., by J. G. Vedder $1.00

Map 1-556: Reconnaissance geologic map of the Dudef quadrangle, Hood River, Sherman, and Wasco Counties, Oregon, by A. C. Waters 75c

Map 1-561: Geologic map of the Twentynine Palms quadrangle, San Bernardino and Riverside Counties, Calif., by T. W. Dibblee, Jr. 75c

Map 1-562: Geologic map of the southeast quarter of the Black Mountain quadrangle, Nye County, Nevada, by D. C. Noble and R. L. Christiansen. $1.00

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Special Report 94: Geology of the Desert Hot Springs--Upper Coachella Valley area, Calif., by Richard J. Proctor $2.50

Map Sheet 10: Geology of the Lakeport Quadrangle, Lake County, California, by James R. McNitt $1.50
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(THIS STATEMENT IS FOR 12 MONTHS, ENDING JUNE 30, 1969)

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Volume 23 Number 2

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ASSOCIATION ACTIVITIES

PACIFIC SECTION CONVENTION

Registration at the convention will be in the lobby of the International Hotel starting Wednesday afternoon, March 26, 1969. The phone number of the convention answering service is Area Code (213) 670-5724.

The entertainment schedule is as follows: Wednesday, March 26, 1969, International Hotel - Ballroom. "A Night in New Orleans" admission is $4.00 per person. Starts 6:30 PM with free drinks and beer. The free bar closes at 8:30. There will be strolling vendors a la Bourbon Street and fresh oysters, crab and shrimp flown in from the Gulf of Mexico. A Dixie Land band, Billy and the Bachelors, will entertain and there will be door prizes during the evening.

For the ladies who are not attending the sessions there will be a brunch in the Penthouse at the International Hotel on Thursday morning. On Friday a tour of Ports of Call with its newly added shops representing most of the imports of the world and a luncheon on the ship 'Princess Louise' on Terminal Island. The Regency Room will be the ladies hospitality room. Thursday evening there will be a no host cocktail party starting at 6:30 in the International Ballroom where the two free drink tickets that came with registration can be used. This is followed by the annual SEPM dinner at 8:00 with Dr. Kleinpell of the University of California as the speaker. See the SEPM notice regarding this important address.

On Friday the following alumni meetings will be held in the Gold Room of the International Hotel. The luncheons are from 12:00 to 2:00, are $4.50 per person and there will be speakers,

1. University of California - Berkeley
2. University of California - Los Angeles
3. Southern California
4. Stanford
5. California Tech - Pasadena
6. San Diego State College

The chairman will be M. J. Castro

Friday evening the champagne dinner dance in the Ballroom of the International Hotel. A no host bar from 7 to 8:00 PM. A strolling trio to lay requests. Dinner with champagne from 8:00 to 9:00 and dancing to the music of the I. Newton Perry Orchestra. The cost is $14.00 per couple and includes a chance on a pair of round trip tickets via National Airlines to some lucky couple to New Orleans from Los Angeles.

Thanks to Harold Sullwold, a handy schedule of Convention talks has been incorporated in this issue.

Dr. Robert M. Kleinpell of the University of California at Berkeley will be guest speaker at the annual dinner meeting of the SEPM on Thursday evening, March 27, in the International Ballroom. He will give a talk entitled, "A Semipro Revisits the Middle Tertiary Formaniferal Sequence of the California Coast Ranges. This great pioneer of West Coast biostratigraphy will undoubtedly have much to say which will be of vital interest to nonmembers as well as members of SEPM. Everyone is welcome. Just let them know you are coming by way of your attendance estimate card.

BULLY FOR HUMBLE

The Humble Oil & Refining Company has donated $30,000 to the American Association of Petroleum Geologists, to be granted in three annual $10,000 payments, AAPG President Dr. Frank B. Conselman announced.

Dr. Conselman said the grant would be applied toward AAPG expenses for the June, 1969, edition of the AAPG BULLETIN, which contains the statistics of drilling for 1968.

"Contributions of this sort, together with donations to AAPG's research-oriented Foundation, greatly enhance the Association's ability to serve the science of petroleum geology and the petroleum industry," Dr. Conselman said.

CALIFORNIA FIELD & POOL NAMES

The AAPG Classification Committee and the Conservation Committee have announced their new lists of "California Oil Field and Pool Names" and "California Gas Fields and Pools" effective January 1, 1969. Copies may be obtained by contacting M. C. Barnard, Jr., Atlantic Richfield Co., 5900 Cherry Avenue, Long Beach, 90805, or telephone 423-7921.
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AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

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L. A. BASIN GEOLOGICAL SOCIETY

There will be no meeting of the Los Angeles Basin Geological Society during the month of March because of Convention conflict.

Tom Redin, chairman of the Society, reports that the group will strive to hold meetings on the third Wednesday of each month. Present plans are for an April barbeque, speaker to be announced later.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

Some 40 members and wives of the Northern California Geological Society met January 22, to hear distinguished lecturer Lewis G. Weeks speak on Oil Exploration in Australia With Case History Lessons.

On January 31, the Society elected the following officers for the calendar year 1969.

President: David Cerkel, Independent
Vice President: Gladys Lauke, Independent
Secretary-Treasurer: Livingston Porter, Jr. Chevron Overseas Co.

February 10, 1969

LEGISLATIVE BULLETIN--Board of Geologists

It was learned today that the Attorney General's office has informed the Governor's Appointments Secretary that there are no legal barriers preventing the creation of the Board of Geologists. The Appointments Secretary's office informed this reporter today that the Board should be announced within a 4 to 5 weeks period.

The long awaited formal opinion from the Attorney General's office has not yet been issued--in fact, it might be dispensed with entirely. Following many weeks of studying the preliminary opinion, it was decided that the Appointments Secretary be notified that the selection of the Board should no longer be delayed.

According to the Attorney General's office, there remain "other problem areas" relative to AB 600, however, these can best be resolved once the Board has been established. A representative from the Attorney General's office will meet with the Board at the appropriate time to review these "problem areas".

Whatever objections to AB 600 that the Attorney General's office might have will not obstruct the registration process.

The Appointments Secretary's office has a tremendous back-log of positions that must be filled. Accordingly, the time necessary to select and appoint the Board of Geologists will be somewhat protracted, requiring between 4 and 5 weeks.

Respectfully submitted,

Roland J. Bain, AAGP
Legislative Representative
A matter has just arisen that calls for the issuance of this Newsletter and concerns the new Constitution which will be presented to the Annual Meeting of the Business Committee for approval in Dallas this April. The matter of the new Constitution, of course, is paramount among the objectives of this administration. The officers of the Association are most anxious that you, the District Representatives, and the total membership, be as well informed as humanly possible on the merits of this plan so that they may have benefit of your suggestions during this interim before the Annual Meeting. This new Constitution is the result of a number of years of work by various committees and individuals, and the plan to be presented is the best of this effort. The Executive Committee considers this to be a good step, that it is a marked improvement over our present constitutional arrangement, and that it accommodates the present purpose and direction of the AAPG in an improved fashion.

Now the real point of this Newsletter is in response to a letter that I believe all of you received about the middle of December from Mr. T. A. Baldwin regarding the proposed AAPG Constitution wherein a number of points are raised concerning the Constitution and its Bylaws, and most specifically concerned with the vesting of authority in amending the Constitution and Bylaws. It is most commendable that Mr. Baldwin has taken his time to go over the Constitution and to raise points of issue, but unfortunately these points seem to involve considerable misunderstanding of the documents.

I should, therefore, be most derelict of duty as your Chairman if I did not address myself to the categorical remarks raised by Mr. Baldwin. Mr. Baldwin's statement will be quoted and then followed with my statement.

Amending the Constitution

1. "The Executive Committee shall determine the 'legality' of all proposals to amend the Constitution before our delegates can discuss them. (Art. VIII, Sec. 3)."

Comment: This is no change at all from the present Constitution and previous practice. To my knowledge this has never been found a handicap or an onerous situation before. Somebody has to determine the legality and unless we set up an independent judiciary of some kind, the Executive Committee with the aid of its Advisory Council is in an excellent position to determine the legality of the proposed amendments. After all, the Executive Committees are elective officials also and have a vested interest in representing the membership as fairly as possible. You may refer to Article VIII of our present Constitution for this provision. If there was no apparatus for determining the legality of an amendment and it was passed by the House of Delegates and later found to be illegal, such action would need to be reversed.

After all, the Executive Committee and the House of Delegates, all being elected officials of the Association, being in a cooperative posture one with the other, should be able to work together toward the mutual good of the Association. Surely the new Constitution contains enough checks and balances to insure that no one segment of the total administration will get too far out of line.

2. "No means is provided for our delegates to propose a Constitutional amendment themselves."

Comment: This statement is untrue. Article III, Sec. 1 (a) of the Bylaws says "All of the Legislative function...shall be vested in a House of Delegates". The Delegates have sole legislative authority, and any legislative body cannot propose legislation. Incidentally, this is the identical wording in the present Constitution as you may find in Article VIII, and the Business Committee has to my knowledge not had any difficulty in originating changes in the Constitution or Bylaws in the past. The method outlined in the present Constitution. Note that the organizational diagram of the proposed Constitution carries the following descriptive words for the House of Delegates, "originates or approves changes in dues, Constitution, and Bylaws, Member requirements, etc."

3. "The general membership can propose a constitutional amendment by petition of 50 members (in the past only 10 were required). (Article VIII, Sec. 2(c))."

Comment: The AAPG was a much smaller organization until recent years and 10 signatures was in line with the total membership at that time. Propositely the AAPG has so grown since that time that 50 signatures alone should not be too difficult to obtain if the amendment is worthy considering at all.

4. "All amendments must be considered during the annual meeting only (only one effective meeting each year). (Art. VIII, Sec. 2(o))."

Comment: There is no change here from the present Constitution. I should not think that one should need to consider the matter of amending the Constitution more often than once a year at the Annual Meeting, although there is nothing in the new Constitution that says it cannot meet more often. In fact, Article III, Section 6 states that the House of Delegates must meet at least once a year; it can meet as often as it wishes.

5. "A 2/3 vote of our attending delegates is required to approve an amendment (in the past a simple majority)."

Comment: This is not true. A simple majority of the attending delegates is all that is required in the proposed Constitution. A 2/3 majority favorable to an amendment must be had upon submission of the amendment to the membership after approval by the House of Delegates.
6. "Before the delegates can transact any business a 50% quorum of elected delegates must be established (no proxies permitted)."

Comment: Under the new Constitution a quorum consists of 50% of the Delegates or elected alternates. In the past, some of our lack of communication has been due to low attendance by Representatives, and the use of proxies with no prior knowledge of problems at stake. Delegates are expected to be responsible people who will attend, or see to it that their alternates attend. This is all toward the end of strengthening the House of Delegates, which I’m sure Mr. Baldwin will applaud as there appears to be a feeling on his part that the position and actions of the House of Delegates should be strengthened.

Amending the Bylaws

1. "No means of proposing an amendment is provided."

Comment: Here again, the House of Delegates has sole legislative authority, and legislation includes proposing legislation. Further, the Advisory Council is charged with constantly reviewing and recommending appropriate amendments (Art. IV, Sec. 5); the Executive Committee can propose amendments; but in all cases the House of Delegates has to approve them. My dictionary defines "legislative" as follows: "having the power to legislate; that makes and inacts laws; distinguished from administrative and judicial; the law making power in government". Incidentally, the Latin "legis" is the genitive of "lex", a law; and "latus" means bringing or proposing.

2. "Our elected delegates cannot propose an amendment (since no discussion of amendments can occur until after the Executive Committee has determined legality and approved publication in the BULLETIN two months prior to the Annual Meeting)."

Comment: As has already been noted above, Delegates can meet as often as they wish; they can propose amendments either at an Annual Meeting or at any subsequent meeting, refer for legality and printing, then take action at the next Annual Meeting. One of the principal objections I've heard around the country which came to a head in the 1968 Oklahoma City Annual Meeting was the statement by many that they were not properly informed. This is the principal reason for reserving two months prior to the meeting for publication in the BULLETIN.

3. "Quorum - a majority of all elected delegates, no proxies permitted."

Comment: This remark is answered in Number 6 above.

Mr. Baldwin in a closing statement says, "In my opinion, these factors would mean that our elected delegates could not propose, discuss or pass amendments to the Constitution or Bylaws except at the will of the Executive Committee." It is difficult to see how Mr. Baldwin arrives at this conclusion if one goes through points 1 and 2 above, looks up the matter in the present Constitution and then the new Constitution, and considers the logic involved. In my understanding of the new Constitution, there has been a considerable attempt to strengthen the hand of the House of Delegates. Such matters as the House of Delegates electing its own Chairman is a case in point of the strengthening in this group. Other points could be mentioned.

When Association leaders accepted the responsibility to update our governing documents, they voluntarily elected to inform the members of significant changes involved by means of visits at personal expense. Of the 51 affiliated societies contacted, 33 responded with an invitation for an AAPG official to discuss the proposed Constitution and Bylaws. By year's end, all but seven of the societies responding had been visited; all will have been visited by the end of February. It is estimated that well over 9,000 active members (of about 10,000 in the United States and Canada) will have had the opportunity to hear the documents discussed, and to offer recommendations. This is a good example of the effort made by our elected officials to keep the membership informed. The rest is up to the members.

PERSONAL ITEMS

Recent transfers involving Cities

Service personnel include the following:

A. J. Keller, transferred from Midland, Texas to the California District as District Geologist.

H. B. Carleton, transferred from San Antonio, Texas to the Los Angeles Regional Staff as Regional Staff Geophysicist.

D. D. Mitchell, transferred from Midland, Texas to the California District as Field Development Geologist.

D. L. Thompson, transferred from the California District to the Alaska District as District Geologist.

Glen W. Specht of Humble has been transferred from the Los Angeles office to Goose Creek, Texas.

Elmo Speckles, formerly a scout with Getty Oil Co., is now in Sacramento as a landman with Union Oil Co.

We understand that Lee McFarland, consultant, Los Angeles, is presently sponsoring a "Holiday in Denver" for some of Denver's finest. Seems that Lee walked into his motel office to register during a recent trip to Colorado and interrupted a holdup. He was forced to lie on the floor with the other victims and relieved of his wallet containing money and credit cards. The robbers were apprehended almost immediately and taken into custody along with all the loot. Inasmuch as the loot is also the evidence, it is still in the hands of the police. Reports indicate that Lee retained his composure throughout and wishes he could have done the same with his money.
## Joint Sessions - Ballroom

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Opening Address &quot;Applied Geology&quot; - Frank Conselman, President, A.A.P.O.</td>
</tr>
<tr>
<td>8:45</td>
<td>Pacific Margin Fault Tectonics - Katz</td>
</tr>
<tr>
<td>9:15</td>
<td>Pleistocene Sea Level Fluctuations - Dill</td>
</tr>
<tr>
<td>9:45</td>
<td>Long Beach Unit of Offshore Wilmington - Szasz, Fantozzi, and Adent</td>
</tr>
<tr>
<td>10:15</td>
<td>Advances in Interpretation of Offshore Seismic Data - Hughes, Harris, and Patterson</td>
</tr>
<tr>
<td>10:45</td>
<td>International Law and Technology for the Sea Floor - Albright et al</td>
</tr>
</tbody>
</table>

Clear the Ballroom for lunch

### Joint Luncheon - Ballroom - Speaker: Kenneth H. Crandall

<table>
<thead>
<tr>
<th>Time</th>
<th>A.A.P.O. - Ballroom</th>
<th>S.E.P.M. - Rose Room</th>
<th>S.E.G. - Blue Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00</td>
<td>Outer Continental Shelf - Solanas</td>
<td>Distribution of Biogenic Sediment - Harman</td>
<td>Doppler Sonar Navigation - Maxwell &amp; Gaschter</td>
</tr>
<tr>
<td>2:10</td>
<td>Challenger Program (Film) - Fields</td>
<td>Sublittoral Sed-Foram Relationships - Echols</td>
<td>Velocity Anisotropy of Upper Mantle - Morris, Raitt, &amp; Shor</td>
</tr>
<tr>
<td>2:15</td>
<td></td>
<td>Paleocurrent Analysis, Sespe Fm. - McCracken</td>
<td></td>
</tr>
<tr>
<td>2:45</td>
<td></td>
<td>Variance of Shelf Sed. Texture - Kelly &amp; McManus</td>
<td>Gravity &amp; Chemical Anomalies - McCulloch</td>
</tr>
<tr>
<td>3:15</td>
<td></td>
<td>Heavy Mils., Bering Sea - Venkatakrishnam, McManus</td>
<td></td>
</tr>
<tr>
<td>3:45</td>
<td>Adak &quot;Paleozoic&quot;-Eocene - Scholl et al</td>
<td>Suspended Matter at Columbia R. - Conomos</td>
<td>Gravity of Northern Channel Islands - Aldrich</td>
</tr>
<tr>
<td>4:10</td>
<td>Airforce Test Range Operations - Benn</td>
<td>Sand Transport in Waves - Cook</td>
<td>Bouguer Reduction Technique - Berkman &amp; LeFehr</td>
</tr>
<tr>
<td>4:40</td>
<td>Rio Balsas Submarine Canyon - Reimnitz</td>
<td>Computer Simulation of Sed. Transport - Carter</td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>Ocean Engineering - Hromadik</td>
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</tbody>
</table>

No Host Cocktail Hour - Ballroom - 6:00 to 8:00

S.E.P.M. Dinner - Ballroom - 8:00 - Speaker: R. M. Kleinpell

"A Semi-pro Revisits the Middle Tertiary Foraminiferal Sequence of the California Coast Ranges"
FRIDAY, MARCH 28

<table>
<thead>
<tr>
<th>TIME</th>
<th>A.A.P.G. - BALLROOM</th>
<th>S.E.P.M. - ROSE ROOM</th>
<th>S.E.G. - BLUE ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Recent Developments in Santa Barbara Channel - Hall, Curran</td>
<td>Lower Paleogene Planktonic Foraminifera - Steineck</td>
<td>Continuous Reflection Parameter Selection - Carter et al</td>
</tr>
<tr>
<td>9:00</td>
<td>Geologic Mapping by Submarine - Vernon</td>
<td>L. Plio of Calif. &amp; Italy - Bandy, Yen, &amp; Wright</td>
<td>Seismic Record at Depth - Horsey</td>
</tr>
<tr>
<td>9:30</td>
<td>Anacapa Rift - Yeats</td>
<td>Size-depth Variation of Cymatina cancellata - Thayer</td>
<td>Searching for Stratigraphic Traps - Dix</td>
</tr>
<tr>
<td>10:00</td>
<td>Miocene Volcanics, No. Channel Islands - Wolfe</td>
<td>Secondary Calcification in Globorotalia menardii - Fleisher</td>
<td>Marine Reconnaissance Techniques - Dobrin</td>
</tr>
<tr>
<td>10:30</td>
<td>Miocene Volcanics, West Sta. Mon., Mts. - Blackerby</td>
<td>Foraminiferal Trends in the Oregon Sublittoral - Fowler &amp; Boettcher</td>
<td></td>
</tr>
<tr>
<td>11:30</td>
<td>Field Geology in a Marine Environment - Osborn</td>
<td>Microstructure Studies of Selected Benthic Forams - Stapleton</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td></td>
<td>Significance of Prunopyle Titan - Bandy, Casey, Wright</td>
<td></td>
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</tbody>
</table>

COLLEGE LUNCHEONS

<table>
<thead>
<tr>
<th>TIME</th>
<th>Seds. on Inner Cont'1 Shelf, No. Washington - Venkatarathnam and MeManus</th>
<th>Middle Tertiary Stages - Bandy &amp; Wilcoxon</th>
<th>Seis. Survey of Gold Placers, Nome - Greene</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00</td>
<td>Santa Cruz Basin - Barnes</td>
<td>Sedimentation in Santa Barbara Basin - Soutar</td>
<td>Seismic Survey, Nome, Alaska - Tagg &amp; Greene</td>
</tr>
<tr>
<td>2:30</td>
<td>Compaction of Meganos Gorge Fill - Edmondson</td>
<td>Mtd-Tertiary Stratigraphy of Santa Rosa Island - Avila</td>
<td>Cont'l. Shelf off Southern Oregon - Bales &amp; Kulm</td>
</tr>
<tr>
<td>3:00</td>
<td>A.A.P.G. Business Meeting with Discussion of Proposed New Constitution by Frank B. Conselman</td>
<td>Paleogene Stratigraphy of Northern Channel Islands - Poerner</td>
<td>Continental Slope off Oregon - Kulm &amp; Bales</td>
</tr>
<tr>
<td>3:30</td>
<td></td>
<td>Miocene Biostratigraphy of SW Santa Cruz Island - Bereskin</td>
<td>Profiling on the Cont'l Shelf off Washington - Bennett</td>
</tr>
<tr>
<td>4:00</td>
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<td>4:30</td>
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<td>5:30</td>
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</tbody>
</table>

DINNER DANCE, NEW ORLEANS STYLE, Ballroom - 7:00 to 1:00
SATURDAY: FIELD TRIP. BUSES LEAVE HOTEL ENTRANCE AT 7:30 AM
Frank E. (Gene) Hill of Mobil just returned from a company sponsored, all-expense cruise on the "Wild Goose", John Wayne's luxury yacht. Sure beats the Nesco I, doesn't it Gene.

Lynn Bogue Hunt, also of Mobil, after surviving the wilds of New York, is about to re-enlist for duty in Sumatra. Rumor has it that Bogue is about ready for his booster shots.

We of the Pacific section of the AAPG would like to welcome Kurt Johnson and Jim Parkinson of Standard of California to the L.A. Basin. Both of these gentlemen were recently transferred to La Habra from Bakersfield. To offset the loss of Kurt and Jim, Bakersfield will receive William H. Smith and Thomas J. McCroden from La Habra. Tom, currently District Geologist for the L.A. Basin, will become District Superintendent of the Bakersfield office effective March 1.

Robert A. Seltzer will also be leaving La Habra to go to Chevron Overseas in San Francisco. Bob will be in charge of geophysics for North Africa and Europe.

George B. Michel of Union, currently Manager of Exploration for the Western region, is to become Chief Geologist of the Union Oil and Gas Exploration Staff effective February 1, 1969.

Dennis R. Watts of Union, currently Chief Geophysicist of International Division, will become Chief Geophysicist of the Union Oil and Gas Exploration Staff, effective February 1, 1969.

John Forbes also of Union, has recently been transferred to Santa Fe Springs from Santa Maria.

Al Winfrey is a new geophysicist for Atlantic Richfield in Bakersfield.

Wesley G. (Wes) Bruer, recently General Manager for Richard S. Rheem is now with the California Department of Conservation in Sacramento. Phone No. 916-445-9378.

Wayne Estes, of Atlantic Richfield, has just been assigned to the Long Beach office after completing training in Dallas. Wayne is a recent graduate of the University of Arizona.

NURSERY NEWS

Rod Nahama, Geological Consultant, Bakersfield, and his wife, Lily, a baby boy, David, on Feb. 4, 1969.

John H. (Jack) and Bonnie Figg, Texaco, Bakersfield, a baby boy, Todd, on Dec. 9, 1968.

Jim and Tafi Coli, Humble, are the proud parents of a baby boy born Jan. 22, 1969.

The Jim Wildharber's, Mobil, recently became the proud parents of a baby girl.

CALENDAR


NO MEETING WILL BE HELD IN MARCH FOR THE COAST GEOLOGIC SOCIETY & THE LOS ANGELES BASIN GEOLOGICAL SOCIETY. ATTEND THE PACIFIC SECTION CONVENTION.

April 7, 1969 Stratigraphic Seminar, 7:30 P.M., Bakersfield College, Rm. 56, Science and Engineering Bldg. "European Studies of Fossil Vertebrates, Paleozoic-Mesozoic Continental Stratigraphy and Vertebrate Chronology, History of Earth Sciences, etc.", Dr. Joseph T. Gregory, Univ. of California, Berkeley.

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Elbert R. Wilkinson
3824 W. 184th Place
Torrance, California 90804

BIBLIOGRAPHY
OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

Professional Paper 516-F: Airborne measurements of terrestrial radioactivity as an aid to geologic mapping by J. A. Pitkin.


Professional Paper 600-A: Geological Survey Research 1968, Chapter A.

Professional Paper 600-D: Geological Survey Research 1968, Chapter D.


Circular 604: Distribution of gold, copper, and some other metals in the McCarthy B-4 and B-5 quadrangles, Alaska, by E. M. Mackevett, Jr. and J. G. Smith.

Circular 605: Gold distribution on the sea floor off the Klamath Mountains, Calif., by G. W. Moore and E. A. Silver.

MAPS:

Map I-555: Reconnaissance geologic map of the Madras quadrangle, Jefferson and Wasco Counties, Oregon, by A. C. Waters. 75c

Map I-566: (LAC-77: RLC-13). Geologic map of the Ptolemaeus quadrangle of the Moon by K. A. Howard and Harold Masursky. $1.00

OPEN FILED REPORTS (Inspection only)

Regional geologic map of San Andreas fault from Cholame area to Gysmas-Maricopa area, San Luis Obispo, Kern, and Kings Counties California, by T. W. Dibblee, Jr. 1 map, 1 explanation (2 sheets), scale 1:123,000.

Summary of geologic effects of the Boxcar event, Nevada Test Site. by D. D. Dickey, F. A. McKean, and W. L. Ellis. 4 p., 2 pl., 1 Fig.
U. S. GEOLOGICAL SURVEY: CONTINUED


Bathymetry and isopach map of stratified Holocene sediments of Nuka Bay, Alaska, by Erk Reimnitz and Roland von Huene. 2 maps, explanation (1 sheets).

Geologic map of the Wilbur Springs quadrangle, Calif by Ernest I. Rich. 1 map, explanation, cross-sections (2 sheets), scale 1:18,000.

Preliminary geologic map of Mt. Michelson quadrangle, Alaska, compiled by H. N. Reiser and I. L. Tailleur. 1 sheet, scale 1:200,000.

Continuous seismic profiling investigation of the southern Oregon continental shelf between Cape Blanco and Coos Bay, by Angus James Mackay. 129 p. (incl. 27 p. tables), 1 pl., 17 figs.


Geologic evaluation of radar imagery, Caliente and Tumbior Ranges, southern California, by Edward W. Wolfe.

Infrared survey of the 'Isigah Crater area, San Bernardino County, Calif.--a geologic interpretation by Stephen J. Gawarecki.

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 38, no. 4, December 1968

Wheeler Gorge turbidite-conglomerate series, California; Inverse grading, by Richard V. Fisher and James M. Mattinson

Petrology of Domeengine Formation (Eocene) at Potrero Hills and Rio Vista, California, by Thomas W. Todd and William A. Monroe

Carbonate turbidites, Gulf of Mexico, by David K. Davies.

Comparison of sedimentation in the Bavarian Flysch (Cretaceous) and Recent San Diego Trough (California), by Ulrich von Rad

Positions of empty pelecypod valves on the Continental Shelf, by K. O. Emery

Petrology and depositional environments of the Beck Spring Dolomite (Precambrian), Kingston Range, California, by Allan M. Oustad.

The role of iron sulfides in the diagenetic formation of iron-poor manganese nodules by E. S. Cheney and L. D. Vrendenburgh

Experimental study of rock fragments, by Sam Boggs Jr.

NEVADA BUREAU OF MINES

Map 36: Gravity map of the Tonopah, Baxter Spring, Lone Mountain and San Antonio Ranch quadrangles, Nevada, by John W. Erwin.

OREGON STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES


WORLD OIL, vol. 167, no. 7, December 1968


WORLD OIL, vol. 168, no. 1, January 1969

New Ideas in deep water oil producing systems. Part 2, by André Brun

The occurrence of oil in sedimentary basins. Part 1: Historical geological studies integrated with petroleum geology reveal information on productive potential of a given basin, by Carl A. Moore.

Waterflooding will make Barrow, Australia's biggest oil producer, by William A. Scholes

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 2, 1969

Experiments on formation of contorted structure in mud, by Edwin D. McKee and Moshe Goldberg.

Earthquake effects on fill of Scripps Submarine Canyon, by Robert F. Dill.

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Map Sheet 9: Geology of the Kelseyville quadrangle Lake and Sonoma Counties, California, by James R. McNitt

Map Sheet 10: Geology of the Lakeport quadrangle, Lake County, California, by James R. McNitt

Bulletin 180: Sand and gravel in California, Part C: Southern California, by Harold B. Goldman

Bulletin 190: Geology of Northern California (Reprinted)
The only problem up here is finding room for the location—
ASSOCIATION ACTIVITIES

THE CONSTITUTION ISSUE: SOME SERIOUS QUESTIONS

Louis J. Simon, President
Pacific Section, AAPG

For several weeks, I have been reviewing the controversy which has been seething within the AAPG over the proposed constitution and bylaws. Let me try to present a brief summary.

There is no question that the national AAPG needs a new constitution. This fact was recognized in May, 1965, when then president Grover Murray appointed a blue-ribbon committee to study the problem. This committee, which included past officers of the Association and others long dedicated to AAPG affairs, operated with various changes in composition under presidents Halbouty, Smith, and Carsey. After much hard work, which included consultation with and detailed review by many District Representatives and local society officers, the committee came up with a draft which had President Halbouty's approval. Responsibility for final approval was left to President Carsey's Executive Committee. One of the principal critics of the Constitution Committee's work was Norman Smith, AAPG Executive Director. The Carsey Executive Committee tabled the Constitution Committee's report and in an unusual move disbanded the committee prior to the Oklahoma City national meeting; as a result, the chairman's report was not accepted at the Oklahoma City Business Committee meeting, and was not published in the transactions of that meeting.

Meanwhile, a new "in-house" constitutional committee consisting of Carsey, Halbouty, and Conselman took up the job. They set up the presently suggested "reorganizational framework", and in the words of President Conselman, "set Mr. Smith, our Executive Director, and Mr. Leroy Blackstock, our counsel, to work 'putting meat on the bones'.

It is their work, and not that of the previous Constitution Revision Committee, which has been published for review in the AAPG Bulletin for January, 1969, (pp. 223-231). Some 50 different objections to this constitution were raised by various groups around the U.S. Amendments correcting seven of the objectionable passages were made by the Executive Committee in Albuquerque in February, 1969. These few amendments were made too late to be published in the Bulletin. However, elsewhere in this issue of the PPG, Vice-President John Kilkenny has reported on these proposed changes.

As members of the AAPG, we should take time to consider the Smith-Conselman version of the new constitution. At the Dallas Meeting in April, your District Representatives will be voting whether or not to present the constitution to the membership for their approval. They will appreciate your comments beforehand.

If this constitution is recommended for adoption, it will be up to each member to decide what is best for our organization. Should we adopt this entirely new version or continue for the time being with the present constitution? I urge all of you to take the time to compare in detail the choices which are offered to us. The present constitution may be found in the November, 1968, Bulletin Supplement (the green Membership Directory issue, pp. 327-334).

HANDS ACROSS THE BORDER

As gesture of goodwill and friendship, the recently established Canadian Association of Petroleum Geologists has offered affiliate membership in CAPG to AAPG members. Affiliate members receive the BULLETIN OF CANADIAN PETROLEUM GEOLOGY at the reduced cost of $5 per year. The Association will make its membership list available for this purpose in the interest of cooperating with the Canadian geologists however possible.
I
Page
Northwest Geological Society

At the last Northwest Geological Society meeting (February 13) Dr. Luciano Ronca of the Boeing Research Center gave a very interesting talk on Lunar Geology.

The next meeting, which will also be held at the Sherwood Inn in Seattle, will be on March 18. Dr. Robert F. Dill, A.A.P.G. Distinguished Lecturer will speak on Pleistocene Sea Levels and Continental Margin Sedimentation.

Salinas Valley Geological Society

Those surviving members of the Salinas Valley Geological Society who recall with considerable nostalgia the meetings held at Joe Guidotti's in San Lucas, will be pleased to learn that Joe's son, Jeppi, has purchased the business from his father and will continue serving the same fine meals and beverages. Joe is reported to be taking it easy in Hawaii. We have no word on Jeppi's vocal talents, but hope they are at least equal to Joe's, and preferably better. Remember having to fight your way past Bingo on the way to and from the john in the backyard?

Associated Societies

Northwest Geological Society

Paciic Petroleum Geologist

Published monthly by the Pacific Section American Association of Petroleum Geologists

Change of Address, subscription and membership inquiries should be addressed to: Membership Secretary, Pacific Section A.A.P.G., P. O. Box 17486, Roy Station, Los Angeles, California 90017

Material for publication and requests for missed copies should be addressed to: William J. Hughes, Texaco Inc., 1215 East San Antonio Drive, Long Beach, California 90807

Orders for Pacific Section publications and prior years' issues of the PPG should be addressed to: Pacific Section Publications, 3132 18th Street, Bakersfield, California 93306

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Geological Highway Map No. 3

Geological Highway Map No. 3 - Pacific Southwest Region, is completed and will be on sale at the Annual Meeting of the Pacific Section March 26-28. The price for this California-Nevada map will be $1.50 folded and $1.75 rolled. Copies can also be purchased by mail from the AAPG Tulsa headquarters.

American Institute of Petroleum Geologists

A.I.P.G. L.A. Basin monthly luncheon meetings are held at the Roger Young Auditorium, the last Wednesday at 12 noon sharp. General interesting discussion and occasionally a guest speaker. Next meeting, April 30. Of especial interest is the coming June 12th luncheon when President R. Dana Russell will be present. Please notify Bruce Barron, 213-427-8750 (P.O. Box 7611, Long Beach 90807), if you plan to be present. These luncheons are the only scheduled A.I.P.G. functions, please attend if possible!!!

Legislative Bulletin

Board of Geologists

From sources in the Governor's Appointments Secretary's office it has been learned that the Secretary and his staff are reviewing the names submitted for consideration as candidates on the Board of Geologists. It is unknown if names other than those supplied by the geological groups in California (the master list submitted by AIPG) have been submitted or are being considered.

The final make-up of the Board could be reviewed at the Appointments Secretary's weekly meeting on March 20.

A.A.P.G. Legislative Rep.

March 16, 1969

Roland J. Bain, AIPG

**********

The Department of Professional and Vocational Standards has received approximately 400 requests for information relative to registration. Half of the inquiries are from out-of-state sources.
REPORT ON PROPOSED NEW CONSTITUTION

In summary the proposed constitution should be a definite improvement over our present document. It represents the work of many people, incorporating what we believe to be the best features of the present constitution, the Moran Committee's work and other versions. Executive Committee members have appeared before dozens of geological societies, study groups and regional sections to explain the plan. The draft has been reviewed and revised twice and comments have been solicited from society officers, District Representatives and Members.

President Conselman will attend the Annual Pacific Section Business Meeting at 3:30 p.m. Friday, March 28 and will be happy to discuss the constitution and answer any further questions that you may have.

John E. Kilkenny
Vice President, A.A.P.G.

OFFSHORE TECHNOLOGY CONFERENCE

The first Offshore Technology Conference will be held in Houston, May 19-21, 1969. The Executive Committee will watch with interest the participation in this unique environmental Conference with the possibility that interest in marine geology may justify organization of a technical division within AAPG to provide liaison and support with this and other related meetings. The continued interest and application of earth science to the sea is pointing up the need for the AAPG to make some effort in this direction.
NATURAL GAS SYMPOSIUM

An epic two-volume symposium on the natural gases of North America has been published by The American Association of Petroleum Geologists.

The 2,493-page work, largest book publication effort ever made by the Association, is the most comprehensive treatment of the geological and engineering aspects of natural gas exploration and production available. Some 225 authors contributed 146 papers to this effort.

B. W. Beebe of Boulder, Colo., independent consultant and vice president of M. M. & B., Inc., edited the volumes. Bruce F. Curtis of the University of Colorado served as associate editor.

The two-volume set is available through The American Association of Petroleum Geologists, Box 979, Tulsa, Oklahoma 74101.

CONSELMAN GOES ABROAD

Dr. Frank B. Conselman, president of the AAPG, will wind up his three week speaking tour of four continents with his speech before the Pacific Section Convention, March 27.


SHORT COURSES ON OCEAN ENGINEERING SET AT UCLA

Two courses of interest to engineers, scientists or managers studying, surveying or exploiting the oceans and to members of companies with offshore exploration and exploitation capabilities will be offered by UCLA Extension in April at UCLA.

Both classes will meet 8:15 a.m. to 5 p.m.

"Offshore Exploration and Mining" will be presented Monday through Friday, April 7 to 11, in Room 4442 Boelter Hall. The five-day course will acquaint interested groups and individuals with the known economic potential of mineral deposits of the sea, and with techniques now available and under consideration for exploring and mining these deposits.

Topics for discussion include mechanics and chemistry of the formation of marine mineral deposits, techniques available for exploring and mining oceanic mineral deposits and techniques under consideration for exploitation of deep ocean mineral deposits.

Instructor will be John L. Mero, president, Ocean Resources, Inc. and consultant in ocean mining and mineral exploration. Guest lecturer will be Jeffery S. Hanor, post doctoral fellow, Scripps Institution of Oceanography, University of California at San Diego.

"Ocean Centered Transport and Logistics Systems," April 21 to 25, in Room 5704 Boelter Hall, will provide an overview of maritime transportation and other logistics with emphasis on new uses and future prospects.

Ship and other ocean centered logistics systems, systems approach to the role, function, nature and principle of systems design; barge and container carriers, tankers, marsupial ships, surface-effect ships, underseapipelines, nuclear power and automated control are among the subjects for study.

Instructor will be Edward M. MacCUTCHEON, director, Systems Development Coast and Geodetic Survey, Environmental Sciences Services Administration, U.S. Department of Commerce, Washington Science Center, Rockville, Maryland.

Further information is available by writing P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, UCLA, Los Angeles, California 90024, or telephone 825-3344 or 825-1295.

ARCTIC SYMPOSIUM

A proposal is being considered by the AAPG Executive Committee to sponsor an Arctic Geological Symposium, inviting participants from all countries involved in Arctic exploration, such as Russia, Norway, Sweden, Canada, etc. Because of wide interest in the North Slope of Alaska and Canada, it is believed that an enthusiastic response will be received especially if the Symposium can be scheduled at an early date within the Arctic Circle. Mr. Max Pitcher has agreed to serve as Chairman of the Steering Committee investigating feasibility.

PROFESSIONAL DIVISION - AAPG

Dr. George R. Gibson, an independent geological consultant from Midland, Texas, has been appointed president of the Professional Division of The American Association of Petroleum Geologists, Dr. Frank B. Conselman, AAPG president, announced.

Dr. John T. Rouse, regional geologist for Mobil Oil Corp. in Houston, is the new vice president and Ted L. Bear, consulting geologist with Bear and Kistler in Los Angeles, is secretary-treasurer.

The Professional Division of the AAPG consists of petroleum geologists who have been certified by a five-man board appointed by the Professional Division president. The purpose of the division, as stated in its by-laws, is to strengthen the professional qualifications and require high standards of competence in the profession.

Dr. Gibson, who holds degrees of Bachelor of Science and Doctor of Philosophy from the University of Minnesota, has international experience as a geologist and teacher. He served on the faculties of Carleton College and Ohio State University, was a geologist in Cairo, Egypt, for Socony Vacuum Oil Co., and worked in Texas for Magnolia Petroleum Co., Richfield Oil Corp. and Seaboard Oil Co., before entering independent consulting.
Dr. Rouse received bachelor and master degrees from the University of Cincinnati and a doctorate from Princeton. He taught at Hamilton College and Ohio State University before joining Magnolia Petroleum Co. in Dallas. He has been with the company and its successor, Mobil, in Dallas, Millings, Montana, and Pittsburgh, before taking the Houston position.

Mr. Bear, a graduate of UCLA, has worked as a consulting geologist with Stanley & Stolz and is now with Bear and Kistler. He also is an instructor in petroleum geology at UCLA.

PERSONAL ITEMS

Texaco's exodus from Bakersfield is now complete. Bakersfield merchants did a "land-slide business" on sales of suits, tie, and white shirts---------also shoes!

The "Sock it To Me" Club may soon be declared the new meeting place for the San Joaquin Geological Society. The staff at Tenneco who seem particularly adept at obtaining front row seats, will certainly support this move. With so many geologists in attendance, the monthly card charge should certainly be a legitimate expense account item.

Bill Edmondsen's talk on "Geologic Effects Produced by Compaction of the Meganos Gorge" was enthusiastically received by 130 geologists and guests at the regular monthly meeting at Bakersfield.

Gene Tripp, Texaco, has lately been sporting a rather ill concealed smirk as his cohorts in the Bakersfield office glumly made preparations for their now completed move to Los Angeles. Gene lucked out and was transferred to the Anchorage office where he could care less about car pools, smog and other such metropolitan problems.

Ed Gribi, Leah Forrest and Max Payne make up a temporary triumvirate now working for Ken O'Brien and Associates of Long Beach. They are presently doing geological studies throughout the United States in connection with an Air Force contract.

Recent Personnel changes at Texaco include the following:

W. E. Bauer promoted to Assistant Division Geologist, Denver, Colorado.

F. S. McCutcheon, promoted to District Geologist, Ventura, California.

W. B. Head, transferred to Los Angeles Division office.

Harry Feder, "Father of the Bakersfield Society Bar-B-Q is at the helm again. 20 oz. steaks, refreshments AND pretty girls are in vogue at the regular monthly meetings.

Al Winfrey is a new geophysicist for Atlantic Richfield in Bakersfield.

Elmo Speckles, formerly a scout with Getty Oil Company, is now in Sacramento as a landman with Union Oil Company.

The Standard Oil Explorers Bowling Team (La Habra) is fighting for 1st place in the local Men's Commercial Handicap League. After 9 weeks of winning 27 and losing 9 games, the team is a title contender. Ably Captained by Greg Calkins, other team members are Gery Ward, Bill Kardos, Bob McCrae, Bob Lindblom, Clancy Schesser, and Gery Gassaway.

The Standard Oil Inter-Company Golf League (Southern Division) is led by the Exploration Team after 3 months play. The team went into 1st place after a match played March 1st at Costa Mesa Country Club. Bob Lindblom shot 1 over par 71 for low gross honors. Captained by Art Gilbert, other team members are John Jacobson, Ray Perry and Dick Golden.

Jim L. Wildharber and Don H. Bollwinkle of Mobil were both transferred from the California District to the Alaska District.

Robert G. (Kern River Pats) Lindblom, of Standard of California, shot a gross 69 in the recent Standard Oil inter-district golf tournament held at Costa Mesa.

Dean Johnson, also of Standard, was recently transferred to La Habra from Libya.

Michael W. Zalkowsky, well known Texaco geologist and paleontologist passed away on the night of March 10, 1969. Mike had 32 years of service with Texaco and worked in Venezuela, Columbia and the United States. His quick humor and warm personality will be greatly missed by his many friends and associates.

Merwin Guy Edwards, long time AAPG member and until his retirement, Chief Geologist of the Shell Oil Co. in Los Angeles, died of emphysema February 25, 1969.

LONG BEACH GEOLOGISTS LUNCHEON

The Long Beach Geologists' luncheon is going strong the second Wednesday of each month at the Long Beach Elks Club, 4101 East Willow, Long Beach, good buffet, good company---call Bruce Barron to get on mailing list, 213-427-8750

NURSERY NEWS

?
April 7, 1969 - STRATIGRAPHIC SEMINAR, 7:30 P.M., Bakersfield College, Rm. 56, Science and Engineering Bldg. Dr. Joseph T. Gregory, UCB, "European Studies of Fossil Vertebrates, Paleozoic-Mesozoic-Cenozoic Continental Stratigraphy and Vertebrate Chronology."

April 8 - SAN JOAQUIN GEOLOGICAL SOCIETY Bar-B-Que Dinner Meeting, Legion Hall, Bakersfield. Social Hour 5:30 p.m., Dinner 7:30 p.m., "San Andreas and the New Global Tectonics" - Mason Hill

April 14-16 - NATIONAL AAPG-SEPM CONVENTION, Memorial Auditorium, Dallas, Texas, "An Ocean of Information About the Continental Margins."

April 16, 1969 - COAST GEOLOGICAL SOCIETY, Dinner Meeting - Jet Room, 1994 Thompson Blvd., Ventura, Social Hour - 6:00 PM; Dinner - 7:00 PM. Dr. Floyd Sabin, Chevron Research, "Infrared Imagery and Other Remote Sensing."

May 5, 1969 - STRATIGRAPHIC SEMINAR, 7:30 P.M., Bakersfield College, Rm. 56, Science and Engineering Bldg. Dr. Donna Corsline, USGS, "Sedimentation on the Continental Borderline."

May 5, 6, & 7 - LOS ANGELES BASIN GEOLOGICAL SOCIETY, Continuing Education Course, Dr. D. R. Baker, "Origin and Migration at Hydrocarbons", Mobil Auditorium, 612 S. Flower, Los Angeles, 2-6 PM, T.J. Wright, S.O.Co. La Habra, Chairman.

May 14, 1969 - LOS ANGELES BASIN GEOLOGICAL SOCIETY, Noon Luncheon Meeting - Roger Young Auditorium, Dr. Donna Corsline, Subject to be announced.

May 21, 1969 - COAST GEOLOGICAL SOCIETY, Dinner Meeting, Jet Room, 1994 Thompson Blvd., Ventura, Social Hour - 6:00 PM, Dinner - 7:00 PM, Mr. James Stewart. Scripps Institute of Oceanography, "The Sealab Project."

BIBLIOGRAPHY OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

Bulletin 1251-1: Geology of the Magruder Mountain area, Nevada-California, by E. H. McKee 75¢

Bulletin 1275: Coal resources of the United States, January 1, 1967, by Paul Averitt 65¢


Maps:

QQ 770: Geologic map of the Spencer Hot Springs quadrangle, Lander Co., Nevada, by E. H. McKee $1.00

QQ 774: Geologic map of the Trail Ridge quadrangle, Nye County, Nevada, by R. L. Christiansen and D. C. Noble. $1.00

OPEN FILED REPORTS: (Inspection only)

Summary of microearthquakes along the San Andreas fault system in central California, January 1 to March 31, 1968, by John C. Roller, Jerry P. Eaton, and William H. K. Lee. 24 pages (19 p. tabular material, 1 fig.)

Summary of microearthquakes along the San Andreas fault system in central California, April 1 to June 30, 1968, by John C. Roller, Jerry P. Eaton and William H. K. Lee. 24 p. (20 p. tabular material, 1 fig.)

Summary of microearthquakes along the San Andreas fault system in central California, July 1 to September 30, 1968, by John C. Roller, Jerry P. Eaton, and William H. K. Lee. 22 pages (17 p. tabular material, 1 fig.)

Summary of microearthquakes along the San Andreas fault system in central California, October 1 to December 31, 1968, by John C. Roller, Jerry P. Eaton, and William H. K. Lee. 19 pages (15 p. tabular material, 1 fig.)


GEOLGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 1, January 1969

Age and chemistry of Mesozoic and Tertiary plutonic rocks in south-central Alaska, by Bruce L. Reed and Marvin A. Lanphere

Times of metamorphism in the Franciscan terrain of the Northern Coast Ranges, Calif., by John Suppe.

GEOLGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 3, March 1969

Thermal infrared imagery and its application to structural mapping in Southern California, by Floyd F. Subins, Jr.

Source of sand dunes of southeastern California and northwestern Sonora, Mexico, by Richard Merram.

Depositional and non-depositional carbonate breccias, Chiantla quadrangle, Guatemala, by Don N. Blount and Clyde N. Moore, Jr.

Burial metamorphism of the Late Mesozoic Great Valley Sequence, Cache Creek, California, by William R. Dickinson, Richard W. Ojakangas and Richard J. Stewart.
GEOTIMES, vol. 13, no. 10, December 1968

Debate about the earth: A revolution in earth science, by J. Tuzo Wilson

GEOTIMES, vol. 14, no. 2, February 1969

The Deep Sea Drilling Project, by Elizabeth L. Gealy and T. A. Davies

AMERICAN JOURNAL OF SCIENCE, vol. 267, no. 2, February 1969

Chemistry of fresh and altered basaltic glass from the Upper Triassic Hound Island Volcanics, southeastern Alaska, by L. J. Patrick Muffler, James W. Short, Terry E. C. Keith and Vertie C. Smith

Origin of cleavage in folded rocks, by James H. Dieterich

Stress-history of folding, by James H Dieterich and Neville L. Carter

Source fluids for the Salton Sea geothermal system by Harmon Craig.

PETROLEUM ENGINEER, vol. 41, no. 1, January 1969

Big unknowns in geology, by the Petroleum Engineer Staff.

WORLD OIL, vol. 168, no. 2, February 1, 1969

Occurrence of oil in sedimentary basins--Part 2, by Dr. Carl A. Moore

Brazil develops new fields and stresses offshore exploration, by Dr. J. E. Rassmus

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Special Report 94: Geology of the Desert Hot Springs--Upper Coachella Valley area, California, by Richard J. Proctor $2.50

Bulletin 180: Sand and gravel in California, Part C--Southern California, by Harold B. Goldman. $2.00

WASHINGTION DIVISION OF MINES AND GEOLOGY

Bulletin 58: Chemical and physical controls for base metal deposition in the Cascade Range of Washington, by Alan Robert Grant $1.50

Map GM-5: Geology of the Chewelah Mountain quadrangle, Stevens County, Washington $1.00

THE ORE BIN, vol. 30, no. 12, December 1968

Reconnaissance geology of the Snake River Canyon between Granite Creek and Pittsburg Landing, Oregon & Idaho, by Tracy L. Vallier

THE ORE BIN, vol. 31, no. 1, January 1969

Oil and gas exploration in Oregon, by V. C. Newton, Jr.

THE ORE BIN, vol. 31, no. 2, February 1969

Geology of the Newport area, Oregon, by Park D. Snively, Jr., Norman S. MacLeod and Weldon W. Rau

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REGISTRATION FOR GEOLOGISTS

Legislative Bulletin - Board of Geologists

The first Board of Geologists for the State of California has been appointed by Governor Ronald Reagan.

The Board is made up of six geologists and one public member. The members are:

District 1 - Wilford W. Peak (Engineering Geologist, Resources Agency, State of Calif., Sacramento)
District 2 - Ian Campbell (State Geologist, Division of Mines and Geology, San Francisco)
District 3 - Gardner M. Pittman (Geologist, Getty Oil Co., Bakersfield)
District 4 - John F. Curran (Geological Consultant, Santa Barbara)
District 5 - Ted L. Bear (Geological Consultant, Bear and Kistler, Los Angeles)
Glenn A. Brown (Engineering Geologist, Glenn A. Brown & Assoc., Tujunga)

Public Member - Joe Cosby

A substantial amount of time will be required to organize the physical facilities necessary for the operation of the Board, as well as to compile the application for registration and the attendant literature. It is recommended, in the interim, that geologists interested in registering make their interest known to the Department of Professional and Vocational Standards. Those persons contacting the Department will have their names added to the master list which the Department has been compiling. The Board will use this mailing list to contact and notify geologists.

Interested persons contact:

State Board of Registration For Geologists
1021 0 Street Room A 198
Sacramento, California 95814
Attention: Audria Stirn

Respectfully Submitted, Roland J. Bain
Legislative Representative

Note: The master list referred to in the above letter is being compiled from the membership list of the Pacific Section, A.A.P.G. If you have not been a member of the Pacific Section and want your name placed on the Department’s mailing list, contact the State Board. (Incidently, you might join the Pacific Section at the same time).

Registration in California is open to qualified geologists from any part of the world.

PACIFIC SECTION AAPG ANNUAL SPRING BARBEQUE, FIELD TRIP, AND GOLF TOURNAMENT

General Chairman Mark Weidler, Shell, has announced that the annual spring golf tournament, field trip and barbeque will be held again this year at the Elkins Ranch Golf Course, Fillmore, on Friday, June 6, 1969. Golf starting times are available from 7 to 11:30 AM, cost is $3.50 per person for green fees and prizes. Golf carts are available for $7.00. Jim Taylor, Shell, is chairman for this event.

An outstanding field trip in the Sespe Creek field area has been arranged for non-golfers under the leadership of Stan Eschner, Occidental, assisted by Dave Ritzius of the Division of Oil and Gas. Some of the most interesting geology in California will be seen on this trip, including such features as the San Cayetano Fault, Coldwater Anticline, Topa Topa Anticline, a complete section of Tertiary sediments from Eocene to Pleistocene and one of the oldest and most unique oil fields in the state. The field trip will originate from the Elkins Ranch Golf Course about 8:30 AM and will return to the barbeque about 4:00 PM. There will be a maximum of geology and a minimum of riding on this trip. Field trip cost, although not yet finally set will be about $4.00 including transportation, guidebook and lunch.

Charcoal broiled steaks and beer will be featured at the late afternoon barbeque dinner. Cost will be about $4.00 per person.

This will be an event you won’t want to miss. Last year 122 golfers, 121 field trippers and 281 eaters enjoyed the day. Lets have another big turn out. Reservation notices will be out shortly.
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PACIFIC PETROLEUM GEOLOGIST
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Membership Secretary, Pacific Section AAPG, P.O. Box 17486, Foy Station, Los Angeles, California 90017

Material for publication and requests for missed copies should be addressed to:
William J. Hughs, Texaco Inc., 3460 Wilshire Blvd., Los Angeles, Calif., 90005

Orders for Pacific Section publications and prior years' issues of the PPG should be addressed to: Pacific Section Publications, 3132 18th Street, Bakersfield, Calif. 93306

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PACIFIC SECTION CONVENTION - 1971
For those of you well organized enough to plan ahead of tomorrow we offer the following:
The Pacific Section, AAPG Convention - 1971 will be held in the Civic Auditorium in Bakersfield on March 31, April 1, 2 and 3, 1971 and not March 24-27 as previously reported. This avoids a conflict with the G.S.A. meeting in Riverside.

A.A.P.G. CONSTITUTION
At the meeting of the District Representatives in Dallas on April 13, 1969, the much discussed new constitution was adopted by a vote of 142 for and 7 against. Of the 19 Pacific Section Representatives, only 7 attended the meeting. Pacific votes were 4 for and 3 against. Final approval of the new constitution will be voted on by the general membership. We understand that an amendment committee has already been set up.

The following letter is published at the request of Bob Orwig so that all Pacific Section members may be aware of the feelings of their District Representatives.

April 9, 1969

Mr. Louis J. Simon
3350 Wilshire
Los Angeles, California

Dear Louis:

At the luncheon meeting held at the Pacific Section convention last month featuring a discussion by Dr. Conselman, there were in attendance fourteen District Representatives of the national AAPG. I consider this an excellent representation, especially in view of the conflict with GSA at Eugene, which expressed the avid interest on the part of West Coast District Representatives in society affairs. Subsequently I have polled these people as to their reaction to Dr. Conselman's explanations of the modified Constitution. By far, the majority are now in favor of approving this document in the Dallas meeting, after each had discussed the pros and cons with his constituents to the best of his ability.

It appears to me that the District Representatives are truly representing the will of the membership by their unbiased approach to this problem. In summary, most feel that the proposed Constitution, with the modifications published in the March issue of the Bulletin, is a vast improvement over the present one, and has ample provisions for amending as future conditions require. Should the revised Constitution fail to pass, it is the consensus that many years will pass before the momentum required to draft another version will be attained. Fortunately the issue of who authored this draft was put aside in favor of objectivity.

I earnestly request that this matter be reported on in some manner in the PPG so that members at large will understand the position taken by their representatives in Dallas, and will be fully knowledgeable of the issue when adoption of the Constitution comes to ballot.

E. R. Orwig, Acting Chairman
West Coast District Representatives
PERSONAL ITEMS

Darren W. Wales with Richfield in California 1955-62 and in Australia 1962-67 has been consulting in Sydney since 1967. His address is: D.W. Wales & Co. Pty. Ltd. 2203 Australia Square Sydney, 2000, Australia

D.W. (Buzz) Fauntleroy has announced his resignation from the Board of Directors and office of Vice President for Exploration of the Cayman Corp. effective March 24, 1969. He is forming his own exploration company to operate primarily in Texas and California. His temporary address is 226 Tilden St., Los Angeles, Calif. 90049, Phone 476-2074.

The many friends of Jim Hassel, geologist for Jade Oil Co. in Los Angeles were saddened to hear of his death March 23, 1969 in Los Angeles.

The Occidental-Shell Bakersfield Volleyball rivalry long dominated by Oxy was shattered recently when Shell put together a wild upset. In an attempt to regain their old form and add a little height to their forward line Oxy has called up Jim Blom from their Libyan Farm Club.

Mr. Spencer Fine of Atlantic Richfield was a recent visitor to the L.A. Basin from Australia. He will be going to New York via the National Convention in Dallas. Mr. Joe Le Conte will also be attending the National Convention as Arco’s representative from the L.A. Basin.

Mr. Mark Guinan has left Atlantic Richfield to return to Midland, Texas, with Signal Oil and Gas Company.

Mr. Harry C. Lee of Union Oil Co. of California is being transferred to Anchorage. Harry will be the District Exploration Geologist for Union’s northern Alaska office. Mr. Tom W. Redin will replace Mr. Lee as District Exploration Geologist for the L.A. Basin.

Standard Oil of California downed Mobil Oil 18-6 in the first game of their inter-company softball league. Mobil, however, is getting tough and is determined to win at least 2 games of the series this year.

MUNNY NEWS

Mr. Jim Groom of Union Oil became the father of a 6 lb. baby girl, Sandra.

Mr. Bruce Ellison also of Union became the father of an 8 lb. baby boy, Dirk Andrew.

Editors Note:

We may be presuming, but what the hell. We'll bet that Mrs. Jim Groom was the mother of Sandra, and Mrs. Bruce Ellison was the mother of Dirk Andrew.

Ed and Betty Kiessling, Calif. Dir. of Mines & Geology, Los Angeles, became the parents of a red headed Kiessling named Kenneth, in March of this year.
NEW AAPG OFFICERS

Kenneth H. Crandall, pictured above, has been elected President of the American Association of Petroleum Geologists for the year 1969-70. Mr. Crandall recently retired as Vice President and Director of Standard Oil and Chairman of the Board of Chevron Exploration Co. of San Francisco.

Other officers for the coming year are:

Vice President: Dr. Willis G. Meyer, Consultant, Dallas, Texas

Secretary-Treasurer: Dr. James M. forgotson, Jr., Petroleum Information, Inc., Denver, Colo. (re-elected)

Editor, AAPG Bulletin: Dr. John Haun, Colorado School of Mines, Golden, Colo. (re-elected)

PACIFIC SECTION CONVENTION - 1969

The 1969 Pacific Section Convention appeared to be a great success with some 710 members and guests registered. Wives, exhibitors and speakers added another 203, making a total of 913 in attendance.

Entertainment Chairman Pat Fazio, McCulloch Oil Corp. and his assistant Mike Maxwell, also with McCulloch, are to be commended for their efforts during the Pacific Section Convention. Certainly the Ice Breaker was a great success, drawing an attendance of 614. Some 294 persons attended the dinner dance on Friday.

PACIFIC SECTION CONVENTION AWARDS

Members of the geological fraternity will be pleased to know that Lifetime Memberships in the Pacific Section AAPG were awarded to Ian Campbell, State Geologist and Mason L. (Mase) Hill, Mgr. of Exploration, International Atlantic Richfield, during the 1969 Convention.

Speaker awards at the Convention were presented as follows:

Best S.E.P.M. Speaker Dr. Wolfgang H. Berger, Scripps Institution of Oceanography, California

A.I. Leversen Robert F. Dill, A.A.P.G. Award: U.S. Navy Electronics Lab

Best Student Paper awards accompanied by a $25.00 check were presented as follows:

A.A.P.G. Walter R. Merschat Ohio University

S.E.G. John K. Aldrich University of California at Santa Barbara

S.E.P.M. S. Robert Bereśkin University of California at Santa Barbara

PACIFIC SECTION DUES

As most of you were apparently not aware, there were some attractive girls ready, willing and able to collect Pacific Section dues at the recent Pacific Section Convention. Because so many of you missed out at that time, the following letter presents a second opportunity.

Dear Fellow Pacific Section AAPG Member:

Enclosed is your renewal membership card for the fiscal year 1969-70. Kindly fill out the appropriate entries and return promptly with your check made out to the Pacific Section, A.A.P.G.

You will note there is no increase in dues. Your support is urgently needed as these monies are needed for items sponsored by the Pacific Section, including the P.P.G. Newsletter, Distinguished Lecturers, continuing education program, field trips, picnics, and other events.

Please fill out and mail now.

Thank you

L. J. Simon, President

The above letter is also being mailed out to the individual members.

As a matter of interest, as of March 24, 1969, the number of A.A.P.G. members not on the membership roll of the Pacific Section, but living and working within the area were located as follows:

Alaska-62 San Joaquin-48
Coast-29 Los Angeles-223
Pacific Northwest-60 North, Calif.-145
# Daily Drilling Report

## Morning Tower

<table>
<thead>
<tr>
<th>Date</th>
<th>Lease No.</th>
<th>Well No.</th>
<th>Actual Depth 8 A.M.</th>
<th>Hole made</th>
<th>Size Hole</th>
<th>Formation</th>
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## Day Tower

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<th>Well No.</th>
<th>Actual Depth 4 P.M.</th>
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<th>Size Hole</th>
<th>Formation</th>
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## Evening Tower

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<th>Well No.</th>
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<th>Hole made</th>
<th>Size Hole</th>
<th>Formation</th>
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## Remarks

I am alive and well in Tierra del Fuego!!

Now accounting grey whales and writing my book "I WAS A PHYREOS RANA FOR THE P.B.I."

When Water, Oil or Gas is encountered, Report AT ONCE to Superintendent.
**CALENDAR**

May 5, 1969

**STRATIGRAPHIC SEMINAR,**
7:30 PM, Bakersfield College, Rm. 56, Science and Engineering Bldg.,
Dr. Donn Gorsline, USC, "Sedimentation on the Continental Borderline".

May 5, 6 & 7, 1969

**LOS ANGELES BASIN GEOLOGICAL SOCIETY,**
Continuing Education Course,
Dr. D. R. Baker, "Origin and Migration of Hydrocarbons", Mobil Auditorium, 612 S. Flower, Los Angeles,
2-6 PM, T.L. Wright, S.O. Co., La Habra, Chairman.

May 13, 1969

**SAN JOAQUIN GEOLOGICAL SOCIETY,**
New York Steak Barbeque and Meeting
American Legion Hall, 17th and L Streets, Bakersfield. "Oil Field Gravity Anomalies and Their Surface Chemical Manifestations" - Dr. Thane H. McCulloh, U.S.G.S.
Social Hour 5:30 P.M.

May 14, 1969

**LOS ANGELES BASIN GEOLOGICAL SOCIETY,**
Noon Luncheon Meeting - Roger Young Auditorium, Dr. Donn Gorsline, USC, "Sedimentary processes and Their Role in the Formation of Future Source and Reservoir Rocks".

May 21, 1969

**COAST GEOLOGICAL SOCIETY,**
Dinner Meeting, Ventura Women's Center 3451 Foothill Rd., Ventura, Social Hour - 6:00 PM, Dinner - 7:00 PM,
Mr. James Stewart, Scripps Institute of Oceanography, "The Sea Lab Project".

June 6, 1969

**SPRING PICNIC,**
ELKINS RANCH, VENTURA COUNTY, GOLF TOURNAMENT AND FIELD TRIP. SEE DETAILS IN SPECIAL ARTICLE.

**BIBLIOGRAPHY OF RECENT PUBLICATIONS**

**CALIFORNIA DIVISION OF OIL AND GAS**

**SUMMARY OF OPERATIONS, CALIFORNIA OIL FIELDS,** vol. 54, no. 1, 1968

Long Beach oil field, by W. L. Ingram
Cheviot Hills oil field, by Robert E. Crowder
Hopper Canyon oil field, by Murray W. Dosch
Barham Ranch oil field, by Elbert R. Wilkinson
Southeast area of Tejon oil field, by J. A. Barnes
Chico-Martinez oil field, by James R. Weddle
East Temblor oil field, by E. Land
Temblor Ranch oil field, by F. E. Land
Five Points oil field, by F. L. Hill.

**CALIFORNIA DIVISION OF MINES AND GEOLOGY**


Earthquakes and the structural features of northern California, by Bruce A. Bolt.

Where does the Hayward Fault go?, by Thomas H. Rogers.

Geology of the Sierra Nevada. Part 2, by Paul C. Bateman.

Map Sheet 11: Geology of a portion of western Marin County, California, by Harold J. Gluskoter.

$1.50

**FORTUNE,** vol. 79, no. 4, April 1969

The hot oil rush in Arctic Alaska, by Jermy Main.

**PACIFIC PETROLEUM GEOLOGIST PACIFIC SECTION, A.A.P.G.**
P.O. BOX 17486, FOY STATION LOS ANGELES, CALIF. 90017
REGISTRATION FOR GEOLOGISTS

Legislative Bulletin - Board of Geologists

On April 30, 1969, California's first Board of Geologists was sworn in. The State's new Director of the Department of Professional and Vocational Standards, Leighton Hatch, administered the oath of office to the six geologists and the one public member, and appointed Dr. Ian Campbell as temporary chairman. The ceremonies were prefaced by brief introductory remarks by Mr. Hatch and by Assemblyman William Ketchum.

The Board's first order of business was to elect a chairman and vice chairman. Wilfred Peak, Engineering Geologist with the State Division of Safety of Dams (Resources Agency) was elected chairman, and Ted Bear, Los Angeles Geological Consultant, was elected vice chairman.

The following are pertinent points and decisions developed during the day-long meeting:

1. The Board scheduled 3 meetings for the immediate future;
   - May 19 - Business and Professions Bldg., Sacramento
   - June 9 - State Bldg., Los Angeles
   - July 1 - Port Authority Bldg. (Ferry Bldg.) San Francisco

   All meetings are open to the public.

2. The cut-off date for registering under the provisions of the "grandfather clause" is November 13, 1969.

3. Forms (application and literature) should be ready for distribution on or about June 1.

4. The Filing Fee is $40, payable at time of filing of formal application.

5. No decision has been reached as to the biennial Registration or Renewal Fee.

6. The Board is anxious to employ an Executive Officer (formerly known as Executive Secretary). This position is a Civil Service, Exempt (no exam), one. It is anticipated that the position will be a full-time one for two years. Thereafter, it is expected that the Board will require the services of the Executive Officer on a part-time basis only. As is done with other boards, the Officer can be shared with one or more boards depending on the work load.

   The position will pay between $11,000 and $13,000 per year. The salary and other details are being worked out by the Department at the present time.

   Individuals interested in obtaining information regarding this key position should contact Mr. Howard Winslow, Temporary Executive Officer, State Board of Registration for Geologists, 1221 "O" Street, Sacramento, 95814. All inquiries will be held confidential.

   The Board's Executive Officer need not be a geologist. Some experience in administration would be beneficial. The Executive Officer will manage the details of registration and will prepare the agenda for Board meetings.

   On May 19, 1969, the Board of Geologists met in Sacramento. The following key points were brought out:

1. Forms for registration will be ready shortly after the 1st of June. These forms will be sent to all geologists who have contacted the Department of Professional and Vocational Standards (P & V). In addition, registration forms will be available in P & V offices in San Diego, Los Angeles, San Francisco and Sacramento.

2. The Registration Fee has been fixed at $40 (biennial). This is not to be confused with the application filing fee which has also been set at $40.

3. Engineering Geologists will pay an additional $5 every two years for their specialty certificate.

4. The cut-off date for receipt of "letters of interest" regarding the Executive Officer position is June 1.

   A. P & V has approved this position on a full-time basis for 1 year. A review is to be made after 1 year.

   B. The position will pay $11,000 to $13,37 per month depending on the applicant's qualifications.

   As of the May 19 meeting, P & V had received 1300 inquiries regarding registration, from both in and out-of-state geologists. It is anticipated that 2000 geologists will register this year.

   The next Board meeting will be held in Los Angeles on June 9 at the State Building. The meeting will be open to all interested parties.
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AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

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Northwest Geological Society

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Coast..............Dennis R. Wiley
Los Angeles..............Gerald W. Thorsen
Northwest..............Gerald W. Thorsen
San Francisco..............Richard M. Cross
San Joaquin..............Rod Nabaza
Membership
Secretary..............Barbara Tetter

REGISTRATION FOR GEOLOGISTS

Pacific Section President L. J. Simon reports that in spite of various public statements to the contrary, Ted Bear has told him that the article on registration procedure for geologists in last month's PPG newsletter is correct. However, geologists wishing early registration may apply to: State Board of Registration for Geologists, 1021 "O" Street, Room A186, Sacramento, California 95814, Attention: Audrey Sirk. These applications will be handled prior to contacting those geologists on the master list, which was compiled from the membership of the Pacific Section AAGP. If you were a member of the Pacific section AAGP in 1968, you will be contacted automatically.

PACIFIC SECTION MEETING

AWARD WINNERS

The March annual joint meeting of the AAGP, SEB, and SEM was a success in many ways. The following is a list of award winners.

- A.I. Leaverton Award: Dr. Robert F. Dill
  - U. S. Navy Electronics Laboratory
- AAPG Student Award: Walter R. Mercuri
  - Ohio University Graduate Student
- SEB Award: John A. Aldrich
  - U.C.S.B.
- SEPM Award: Dr. Wolfgang Berger
  - Scripps Institute of Oceanography
- SEPM Student Award: S. Robert Baker
  - U.C.S.B.

The AAGP Life Memberships went to Mason L. Hill of Atlantic-Richfield Oil Company, and Dr. Ian Campbell of the California Division of Mines.

The SEB Life Membership went to Dr. R. M. Kleinpell, of the University of California at Berkeley.

The SEB Life Memberships went to W. L. (Matt) Majestic of Getty Oil Company, and Curtis Johnson of Western Geophysical.

ERRATA

Corrections are necessary for the following slip-ups in last month's PPG Newsletter:

- Pat Faro was General Chairman of the 1969 Pacific Section Convention at Entertainment Chairman as stated on page 3.
- J. D. Traxler, Robert N. Baker, John W. Bednor and James M. Saunders are President, Vice President, Treasurer and Secretary respectively, of the Pacific Section of the AAPG and not of the Los Angeles Basin Geologic Society as stated on page 4.

COMMENT FROM THE PAST

Speaking of oil upon the waters, on page 5 of "California, A Literary Chronicle, 1963," author W. Storr Lee writes of George Vancouver in 1792: "A century ahead of his time, he was probably the inadvertent discoverer of California oil, when he sailed into a vast oil slick on Santa Monica Bay and noted that 'the surface of the sea which was perfectly smooth and tranquil, was covered with a thick oily substance, resembling 'dissolved tar' and smelling strongly of 'burning tar or some such substance'; it covered the ocean, he claimed, 'in all directions within the limits of our view,' but he was content to let it stand as one of the unexplained phenomena of the New World."

Patricia A. Warren, historical curator for the county, recently read the passage to her adult class in California history at Pasadena City College.
ELECTION OF DISTRICT REPRESENTATIVES

Eighty-four geologists have been elected by the American Association of Petroleum Geologists as District Representatives and members of the association's business committee.

The District Representatives, selected from every geographical area where there are significant numbers of members of the world's largest geological association, act as local liaison with the officers and headquarters of the AAPG, and assist the organization in screening applications for membership and for professional certification.

The newly elected Representatives for the western area to serve from July 1, 1969, to June 30, 1971, are:

- **Alaska**: Charles E. Kirschner, Anchorage, Alaska
- **Los Angeles**: Ted L. Bear, Los Angeles, California; John A. Forman, Santa Fe Springs, California; Donn S. Coraline, Los Angeles, California; William C. Gussow, Fullerton, California; Thomas L. Wright, Fullerton, California
- **Northern California**: Bruce D. Brooks, Sacramento, California
- **Pacific Northwest**: V. Standish Mallory, Seattle, Washington
- **San Joaquin**: Robert C. Blaisdell, Oildale, California; James R. Weddle, Taft, California
- **Santa Barbara**: Richard B. Haines, Ventura, California

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

The Northern California Geological Society conducted an all day Field Trip to Mt. Diablo and the area of Camp Parks proposed (but not selected) on May 17, 1969. The Mt. Diablo portion of the trip was conducted by Earl W. Phemister of the U.S.G.S. and the Camp Parks Area was covered by H. A. Wollenberg of the Lawrence Radiation Laboratory at Berkeley.

Thirty-six persons were on the trip which included a wine tasting visit to the Wente Brothers winery and an evening dinner in Livermore. President-elect Ken Crandall of the AAPG was one of the participants.

PERSONAL ITEMS

**MOBIL**

Dave and Pat Olson are the proud parents of twin baby girls, Deanne and Deborah, born February 27, 1969.

Mike Acosta and Jim Wildhaber are in Houston attending advanced logging school. Rumor has it that they are enjoying Houston more than logging school.

John (Bull) Forman has once again assembled a powerhouse Mobil softball team. Although there are a number of new faces on the team this year, the results are the same. Mobil's first victory is being anxiously awaited.

**STANDARD**

Marshall Ayres has been transferred to the Chevron Overseas Office in San Francisco.

**UNION**

Mr. Harry C. Lee, District Exploration Geologist, has been transferred to Anchorage, Alaska, in the same capacity.

Mr. Jack Mayhew, a trainee for the International Division, has joined the staff at Santa Fe Springs for his training.

The 34th Annual Standard Oil (Los Angeles) Producing-Exploration Spring Golf Tourney was held April 19th at the Rancho Bernardo Golf Course and Country Club. Over 50 golfers participated in this popular event. Fred Klikanoff (Huntington Beach) and Bill Sauer (Huntington Beach) won low net honors in the 1st and 2nd Flights. Bob Lopes et al. won low gross with 75. The Women's Flight was won by Betty McCollum.

Gregg Calkins (Standard-La Habra) is recuperating at home after a back operation. This has reduced considerably his softball and bowling efforts to sideline managing like other geologists who are too old to play.
Geologists from around the world will hold an important forum on oil exploration in Europe and Africa when the American Association of Petroleum Geologists, and the Institute of Petroleum (London), and the Petroleum Exploration Society of Great Britain, meet jointly in Brighton, England June 29-July 2.

Michel T. Halbouty, Houston, Tex., geologist, consultant and producer, who is U. S. General Chairman for the meeting, described it as "an important gathering of the geological profession where the American Association of Petroleum Geologists will, again, assert its world-wide interest in the vital search for oil."

In four days of meetings, the geologists will study in detail the petroleum geology of virtually every corner of Europe and the giant fields of North Africa.

Interestingly, the "changing of the guard" for the AAPG will take place during the meeting.

Dr. Frank B. Conselman, of Abilene, Texas, incumbent AAPG president, will continue to function until June 29 and 30. But then his term of office ends, and Kenneth H. Crandall of San Francisco will assume the reins for the remaining two days’ sessions.

The AAPG already has members in 84 countries, and Halbouty reports that so far 29 nations are represented by registration at the meeting.

The papers to be presented not only cover the geology of such important free-world oil production areas as North Africa, the North Sea and the basins of Germany and Austria, but exploration activity behind the Iron Curtain, in the Soviet Union, Poland, Hungary and Yugoslavia. Dan C. Ion, president of the Institute of Petroleum of London, will be chairman of the opening session.

The program includes a series of historical tours designed for wives and a post-convention schedule of airplane and bus tours of areas of geological importance in Great Britain and also in Continental Europe.

---

**Reminder - Spring Barbecue**

Don’t forget the annual Spring barbecue, field trip and golf tournament, Friday, June 6, 1969. Field trip starts at 8:30 a.m. from the parking lot, Elkins Ranch Golf Course. Cost is $5.00 including transportation, lunch, beverages and guidebooks.

After surveying the route, President Louis Simon suggests comfortable walking shoes will be appreciated for some of the short hikes on the itinerary. The luncheon area contains a beautiful swimming hole, according to Louis, and he recommends bringing along swimming trunks.

The golf tournament starts at 7:00 a.m. and costs $4.50.

The barbecue starts at 4:00 p.m. Dinner will be served at 5:00 p.m. Cost is $4.00 and includes hors d’oeuvres, steak dinner and beverages.

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**Change of Addresses**

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<tr>
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<tbody>
<tr>
<td>B. Amundson</td>
<td>1165 Vois Drive, Sacramento, Calif. 91822</td>
</tr>
<tr>
<td>Glenn H. Bowes</td>
<td>1424 Punahou Street, Honolulu, Oahu, Hawaii 96822</td>
</tr>
<tr>
<td>William F. Edmundson</td>
<td>1831 Truxton Avenue, Room 145, Bakersfield, Calif. 93301</td>
</tr>
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<td>E. W. Hudson</td>
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<td>Theodore D. Sheldon</td>
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<td>Glenn E. Sorensen, Jr.</td>
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<td>Allen W. Strohl, Jr.</td>
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<tr>
<td>D. W. Wales &amp; Company</td>
<td>Ptg. Ltd. 2202 Australia Square, Sydney 2000 Australia</td>
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ASSOCIATION ACTIVITIES

PACIFIC SECTION SPRING PICNIC

The annual Pacific Section AAPG Spring Field Trip, Golf Tournament and Barbeque was, from all reports, a resounding success. This event was held June 6, 1969 at Elkins Ranch Golf Course, Fillmore, California.

Mark Weidler, Shell Oil Company, General Chairman of the days festivities, is to be commended for a job well done. Sharing the honors with Mark are the chairmen of the various events.

For those who wonder about the expense of this yearly blast, the following may be helpful:

Barbeque - Chairman: Gene Shaw, Shell Oil Co.
Receipts $2,289.00 Expenses $2,559.28
(354 served)

Golf - Chairman: Jim Taylor, Shell Oil Co.
Receipts $671.50 Expenses $682.30
(148 players)

Field Trip - Chairman: Stan Eschner, Occidental Pet. Corp.
Assistant: D. Ritsius, State Div. of Oil & Gas
Luncheon: Jack Durrie, Getty Oil Co.
Jim Saunders, Getty Oil Co.
Receipts $876.00 Expenses $876.00
(151 attending)

Raffle
Receipts $380.00 Expenses $163.24

Other (unsold guidebooks transferred to Treasurer)
Receipts $84.00

Total Receipts $4,300.50
Total Expenses 4,280.82
Net Profit $ 19.68

Bob Knapp of Standard did a wonderful job of soliciting contributions to the tune of $1,045.00. Many thanks are due the following service companies for contributing to the success of our Geological Rite of Spring:

1. ABC Directional Control
2. Baroid Well Logging Service
4. Borst & Giddens Logging Service
5. Cook Testing Co.
6. Custom Control Company
7. Dresser Magcobar
8. Drilling Control Corp.
9. Eastman Oil Well Survey Co.
10. Exploration Logging, Inc.
11. Geophysical Services, Inc.
15. Global Marine, Inc.
16. Go-Western Service, Inc.
17. Grover Collins, Inc.
18. Johnston Testers
19. Julian Well Logging Service
20. Mercury-Christensen Co.
21. Munger Oil Information Service
22. O'Meara & Rogers Construction Corp.
23. Petrol Chemical & Engineering Co.
24. Reese Sales Co.
25. Republic Supply Co.
26. Schlumberger Well Services
27. Sperry-Sun Well Surveying Co.
28. TOTCO
29. United Directional Services
30. Vetco Offshore Industries, Inc.
31. Welex
32. Western Geophysical Co.
33. Occidental Petrol Co. - Guidebooks
34. Elkins Ranch Corp.
35. Santa Fe Drilling Co.
36. Core Laboratories Inc.
37. Pacific Oil Well Logging

Last but not least of those whose efforts contributed so much are those too numerous to mention who served the food, served the beer, computed the scores, etc.

As a last bit of incidental intelligence possibly valuable to those active in church groups or the P.T.A., 2,188 cans of beer were consumed by 354 people. This comes to 6.2 cans per person. (Better make that 7 cans, you know how flat .8 of a can of beer can get)
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AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

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<td>Morton Polugar</td>
<td>San Joaquin Delegate</td>
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<td>Frederic R. Kelly</td>
<td>N. Calif. Delegate</td>
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<td>D. E. Ritzius</td>
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<td>Tom W. Redin</td>
<td>Los Angeles Delegate</td>
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<td>Alaska Delegate</td>
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ASSOCIATED SOCIETIES
Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST
Published monthly by the Pacific Section American Association of Petroleum Geologists

Change of Address, subscription and membership inquiries should be addressed to:
Membership Secretary, Pacific Section AAPG, P.O. Box 17486, Foy Station, Los Angeles, California 90017

Material for publication and requests for missed copies should be addressed to:
William J. Hughes, Texaco Inc., 3460 Wilshire Blvd., Los Angeles, Calif., 90005

Orders for Pacific Section publications and prior years' issues of the PPG should be addressed to: Pacific Section Publications, 3132 18th Street, Bakersfield, Calif. 93306

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Sacramento: Rod Nahama
San Francisco: Fredric R. Kelly
San Joaquin: John N. Terpening
Membership Secretary: Barbara Tetard

Some 37 prizes were awarded in the golf tournament. Finishing in the top money were:

- Low gross: Layne Howell, Tenneco, 70.
  This one under par gave Layne the Travelling Frank Yule Memorial trophy as well as the permanent trophy for low gross.

- Handicap Flight: Byron Anderson net 67 gross 82

- Calloway Flight (gross less than 100):
  Gerry Murrell net 72

- Calloway Flight (gross over 100):
  Charles Boise net 74

OCEANOGRAPHY, GEOLOGY SHORT COURSES SET FOR JULY AT UCLA

Two courses in oceanography and one in geology are among the thirty short courses offered by UCLA Extension in July on the UCLA campus.

A comprehensive survey of marine data acquisition, communication, storage, analysis and processing systems will be presented in "Oceanographic Data Recovery and Processing Systems," July 21 to August 1, in Room 5722 Boelter Hall. The two-week course is designed for scientists, engineers, system analysts, information system analysts and programmers working with or interested in marine data systems.

"Underwater Acoustics" will meet at the same time in Room 1240 Knudsen Hall to examine the uses of underwater acoustics for ocean surveillance, sonar, and ocean engineering. An introduction to basic acoustics, the course will cover high energy fields and their production; design, construction, and evaluation of transmitting and receiving transducers; and signal processing.

Consulting engineers, civil engineers and land architects will be particularly interested in "Geology in Engineering Practice," July 28 to August 1 in Room 5704 Boelter Hall.

Experienced, practicing engineering geologists will provide a practically oriented survey course covering such areas as fundamental characteristics of rocks related to engineering characteristics, principles and recognition of processes of alteration, weathering, erosion, deposition and tectonics, and techniques dating past geologic events and forecasting future events.

During a day-long field trip, participants will view typical rocks and surficial deposits of the area, Modelo Formation, Topanga and Sespe Formations, major ancient and recent landslides, a proposed aqueduct tunnel and reservoir system, a proposed nuclear power plant site etc.

Further information is available by writing P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, Los Angeles, California 90024, or telephone 825-3344 or 825-1295.

REGISTRATION FOR GEOLOGISTS

The latest report from Ted Bear is that any geologist desiring to register in California will have to initiate the action himself. The Board of Registration will not contact members of the Pacific Section as was previously reported.

Those desiring to register should apply to: State Board of Registration for Geologists, 1021 "O" Street, Room A198, Sacramento, California, 95814, Attention Audria Stirm.
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UCLA TO OFFER SHORT COURSE IN OFFSHORE PETROLEUM

A one-week course in offshore petroleum exploration and development will be given September 15-19 by UCLA Engineering and Science Extension. The course is a survey of the offshore from a geological, geophysical, engineering and economic viewpoint, and will emphasize new developments.

Principal instructor is Robert S. Yeats, associate professor of geology, Ohio University, formerly with Shell in Los Angeles. Guest lecturers will include Donn Gorsline, University of Southern California (geological exploration on sea floor), M.B. Dobrin, United Geophysical Corp. (offshore geophysics), R.C. Crooke, Global Marine (offshore drilling), and C.J. Lakey, Mobil Oil (offshore economics). The course includes a one-day field trip to visit a platform and examine representative geological structures and reservoirs on the southern California coast.

The course is designed for individuals with a general technical background at the bachelors degree level, particularly engineers, scientists, or managers concerned with offshore petroleum problems. Further information is available from G.S. Bond, UCLA Extension, 6115 Math Sciences Bldg., Los Angeles, Calif. 90024.

TESORO PETROLEUM CLOSING OFFICE

Tesoro Petroleum Corporation announces the closing of its office at 531 California Avenue, P.O. Box 1848, Bakersfield, California 93303, effective May 23, 1969. Operations previously handled out of Bakersfield will now be handled out of Tesoro's Main Office: 8520 Crownhill Boulevard, San Antonio, Texas 78209, Telephone (512) 824-0261.

COAST GEOLOGICAL SOCIETY

Recently elected officers for the Coast Geological Society are:

President: Howard Stark, Consultant
Vice Pres: Tom Bjorkland, Shell Oil Co.
Secretary: John Harper, Shell Oil Co.
Treasurer: Mel Oxsen, Continental Oil Co.

With the possible exception of a mid summer picnic the Society anticipates a rather tranquil summer.

COLVIN SHAKES THE TREE

Our outgoing Pacific Section Vice President, Rod Colvin, is to be congratulated on his recent membership drive. Rod sent notices to 575 geologists who were members of the AAPG but were not members of the Pacific Section. Some 100 have responded to date, and with cash in their hands, too.

PERSONAL ITEMS

John H. (Jack) Van Amringe, Union Oil, has been promoted to District Exploration Manager in Lafayette, La.

C.H. "Hap" Glidden is now Regional Exploration Manager for Union Oil in Los Angeles, replacing George Pichel who has been named Chief Geologist.

Ed East, Union's Exploration Geologist in Anchorage, has been appointed District Exploration Manager for the Houston District.

Clement D. Meserve died April 20th at the Huntington Memorial Hospital in Pasadena.

Mr. Jack Mayhew, a recent graduate of Colorado School of Mines, became a new member of the Union Oil geological team at Santa Fe Springs.

Mr. William G. Wendell has recently returned to Union Oil after leaving to finish his masters degree at Oregon State University.

Mr. J.D. Moore with Shell Oil was recently transferred from Los Angeles to Farmington. He may be reached at Shell's office at 705 W. Municipal Dr., Farmington, New Mexico 87401.

Mr. Mike Mickey, a recent San Diego State graduate, just joined Mobil's paleontological staff at Santa Fe Springs.

Mobil had a 2 game winning streak in the Standard-Mobil softball league. Will wonders never cease?

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Page 5
# Publications

### New Issues

| GB 9 | Geology of the Big Mountain Oil Field and the Nearby Area, including notes on the trip from Piru to Big Mountain (AAPG) 1967. | $1.00 |
| GB 10 | Gabriell Range and Adjacent San Andreas Fault (AAPG-SEPM) 1967. | $10.00 |
| GB 11 | The Guidebook to the Geology and Oilfields of the Westside San Joaquin Valley (AAPG-SEPM) 1968. | $2.50 |

### Guidebooks

| GB 5 | Geology of Southeastern San Joaquin Valley, California - Kern River to Grapevine Canyon (AAPG) 1965. | $4.00 |
| GB 8 | A Tour of the Coastal Oil Fields of the Los Angeles Basin in and Adjacent to San Pedro Bay, California (AAPG-SEPM) 1966. | $3.50 |

### Miscellaneous Papers

| MP 9 | Directory - Pacific Section AAPG Membership (names, addresses, phone no.'s. and pictures) 1968. | $2.00 |

### Cross Sections

| CS 6 | Sacramento Valley-North (2 sheets) 1954. From T29N/R1W thru T16S/R1E. | $2.00 |
| CS 7 | Ventura Basin-Central (1 sheet) 1956. From T3N/R23W to T15S/R21W. | $2.00 |
| CS 8 | San Joaquin Valley-South (1 sheet) 1957. From T3N/R22E to T25S/R10E. | $2.00 |
| CS 9 | San Joaquin Valley-Central (1 sheet) 1957. From T25S/R12E to T15S/R23E. | $2.00 |
| CS 10 | San Joaquin Valley-Central (1 sheet) N 1958. From T4N/R1E to T15S/R21W. | $2.00 |
| CS 11 | San Joaquin Valley-West Side (1 sheet) S 1959. From T15S/R1E to T8S/R23W. | $2.00 |
| CS 12 | Santa Maria Basin (1 sheet) 1959 From T11N/R34W to T5N/R34W. | $2.00 |
| CS 13 | Sacramento Valley-North-South (1 sheet) From T29N/R22W to T3N/R2E. | $2.00 |
| CS 14 | Los Angeles Basin (1 sheet) 1962. From T15S/R15N to T8S/R10W, SBBEM. | $2.00 |
| CS 15 | Sacramento Valley-Central (1 sheet) 1967. From T4N/R14W thru T6N/R7E. | $2.00 |
| CS 16 | Sacramento Valley-Northern San Joaquin (1 sheet) 1967 From T6S/R10E thru T8N/R1E. | $2.00 |

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**Pacific Petroleum Geologist**  
**Pacific Section, A.A.P.G.**  
P.O. BOX 17486, FOY STATION  
LOS ANGELES, CALIF. 90017
LEGISLATIVE BILL REPORT

Below is a list of a number of bills and their final disposition in the 1969 legislative session. This list includes most of the bills of particular interest to the geology profession.

AB-291 (Schabarum) - Trespass on Private Property. Killed in Assembly Criminal Procedure Committee.
AB-454 (Davis) - Mining Operations. Dropped by author.
AB-559 (Unruh) - Oil Pollution Liability. Killed in Senate Governmental Efficiency Committee.
AB-622 (Badham) - Leases and Surveys. Passed both houses, now on Governor's desk.
AB-833 (Burton) - Oil & Gas Severance Tax. Held in Assembly Natural Resources & Conservation Committee.
AB-834 (Burton) - Limits Depletion Allowance. Held in Assembly Natural Resources & Conservation Committee.
AB-1167 (Britschgi) - Tide & Submerged Lands. Held in Assembly Natural Resources & Conservation Committee.
AB-1636 (Burke) - Oil Spills. Killed in Senate Natural Resources Committee.
AB-1920 (Sieroty) - D.O.G. Oil & Gas Company Records opened to County Assessors and State Board of Equalization. Passed Legislature and signed into law by the Governor.
AB-2180 (Ray Johnson) - Vocational Licensing. Killed in Assembly Commerce & Public Utilities Committee.
ACR-41 (MacGillivray) - Emergency Oil Pollution Control. Passed both houses of the legislature and recorded by the Secretary of State.
AJR-11 (Z'berg) - Offshore Oil & Gas Operations. Passed both houses of the legislature and recorded by the Secretary of State.
AJR-36 (Dunlap) - National Oil, Gas & Mineral Severance Tax. Died because of no committee action.
AJR-37 (Burke) - Oil Drilling. Passed both houses of the legislature and recorded by the Secretary of State.
SB-57 (Grunsky) - Restricting Oil & Gas Leases on State-Owned Tide and Submerged Lands. Passed both houses of the legislature, waiting for Governor's signature.
SB-69 (Carrell) - Disciplinary Action Against Licentiates. Died in Senate Business & professions Committee.
SB-313 (Marks) - Public Meetings of Department of Professional and Vocational Standard's Boards & Commissions. Died in Senate Government Efficiency Committee.
SB-314 (Marks) - Public Meetings. Died in Senate Government Efficiency Committee.
SB-443 (Lagomarsino) - Subdivision Maps. Killed in Assembly Commerce & Public Utilities Committee.
SB-448 (Dolwig) - Tide & Submerged Lands. Held in Senate Government Efficiency Committee.
SB-452 (Dolwig) - Tide & Submerged Lands. Held in Senate Government Efficiency Committee.
SJR-9 (Lagomarsino) - State Inspection & Regulation of Offshore Oil & Gas Development. Passed both houses of the legislature, filed with the Secretary of State.

ANNUAL FALL SEPM FIELD TRIP

Put October 17th and 18th on your calendar for this year's SEPM field trip. Starting at 5:30 on Friday evening at the Oaks Hotel in Ojai, a happy hour will be followed by a prime rib dinner and several talks on the geology of the area to be covered on Saturday. These include: Bill Dickinson "Geological Problems in the area north of Ojai"; Dave Chipping "Lower Tertiary of the Sierra Madre Block"; Don Lowe "Upper Miocene gypiferous and phosphatic beds". Field trip Chairman Bill Dickinson from Stanford has put together an interesting trip into the upper-Sespe drainage area, from Ojai to Pine Mountain along Highway 33. This is spectacally rugged and colorful country and the geology will include Upper Cretaceous to Upper Miocene beds found in three east-west trending structural blocks within the transverse ranges. Bill is putting together a guide book that will include new contributions on the area by himself, Don Lowe (U.S.G.S.), Dave Chipping (U.C.Davis), Willard McCracken (Stanford graduate student), John Harper and Peter van de Kamp (Shell Development).

Although final costs are not yet available approximate costs will be $6.00 for dinner Friday evening and $6.00 Saturday for transportation, lunch, drinks, and guidebooks.

ANOTHER SEPM BARGAIN OF THE YEAR!
EXECUTIVE COMMITTEE, PACIFIC SECTION

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Secretary Barbara Tetard

PRESIDENT'S REPORT

As stated in our Constitution the object of Pacific Section is "to provide for discussion of subjects and problems coming within the scope of the profession." In 1965 the Executive Committee recognized a need to help supply funds for distinguished lectures, continuing education, and to help pay the mailing costs or other local society needs. Also it is recognized that the Executive Committee should exercise control over allocation of the members' funds.

Your present Executive Committee is committed to the guidelines outlined in 1965 (and reprinted herewith for your information):

1. The geological societies presently located in cities where meetings are held, i.e., Anchorage, Seattle, Sacramento, San Francisco, Bakersfield, and Ventura will receive as a distribution of Pacific Section funds two dollars ($2.00) per member per year with a minimum of one hundred dollars ($100), whichever is the greater.

2. For this purpose a member of a geological society is one who has paid his current dues to Pacific Section.

3. The money to be distributed to each society will remain with Pacific Section and be credited to the society. The account will be closed at the conclusion of each annual meeting and a new account started. Funds will not be carried over from year to year. The use of funds made available herein are to be used to promote the objectives of the Pacific Section.

4. Should one or more geological societies be formed in the same city, or very closely located towns, the Executive Committee may at its option, disperse funds in a manner best suited to all the membership in that area.

5. Any society may, periodically, request the number of members on record for their group by writing to the Pacific Section Membership Secretary.

6. It will be recommended to the incoming officers that within thirty days after assuming office, the president shall notify the president of each of the societies the amount of funds to which that society is entitled based upon their membership or because of any other outstanding financial condition, with a statement of why the amount is more or less than the preceding year.

It should be pointed out that our present dues of $3.50 will only cover the estimated cost of printing and distribution of the Pacific Petroleum Geologist. All other expenses (the $2.00 rebate to local societies, association affairs, handling and storage of publications, membership secrecy and legislative services) must be paid for from income derived from the sale of publications, the annual convention and interest. It has been demonstrated that these sources of income are not consistent nor are they reliable enough to forecast a sound budget. Consequently the other source of income must be examined.

Pacific Section dues have historically been less than other societies of similar stature and objectives. This fact is primarily due to the tight reign held on expenses coupled with other financially rewarding society activities. It now appears that we will be required to spend past savings to meet budgetary commitments for this year. I feel this is a precedent we should avoid if at all possible. The distasteful alternative is a dues increase (possibly $1.50). Address your comments and criticisms to your representatives or to anyone on the Executive Committee.

Doug Traxler

NOTICE

The Executive Committee has approved the reprinting of the Sespe Creek Guidebook. To ensure delivery of your copy send $6.00 to Publication Sales Chairman Don Hallinger, Pacific Lighting Service & Supply 720 W 8th Los Angeles 90017. Only a limited number will be reprinted depending upon your response.
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Robert N. Hacker
1180 So. Beverly Drive
Los Angeles, Calif. 90035
213-278-7250

MEMBERSHIP SECRETARY
Miss Barbara Tethard
P.O. Box 17486, Foy Station
Los Angeles, Calif. 90017
213-482-7600

NOMINATING COMMITTEE
Louis J. Simon
Texaco Inc.
3350 Wilshire Blvd.
Los Angeles, Calif. 90005
213-385-0515

OIL AND GAS FIELD CLASSIFICATION
Bernard A. Minch
Union Oil Company
2700 "F" Street
Bakersfield, Calif. 93301
805-324-6571

PUBLICATION SALES
Donald E. Hallinger
Pacific Light, Service & Supply
720 West 8th Street
Los Angeles, Calif. 90017
213-389-3649

1970 CONVENTION
John K. Cassell
Standard Oil Company
P.O. Box 606
La Habra, Calif. 90631
213-691-2251

1970 FALL FIELD TRIP
James C. Taylor
Shell Oil Company
196 South Fir Street
Ventura, Calif. 93001
805-648-2751
**APPLICATION FOR REGISTRATION AS A GEOLOGIST**

Fee: $40.00 (Remit by Check or Money Order Only)

I also wish to be certified as an:  
*Engineering Geologist X*

Submit this application before Grandfather Clause deadline 11/13/69.

The application must be typewritten and signed.

**STATE BOARD OF REGISTRATION FOR GEOLOGISTS**

**APPLICATION NO.**

<table>
<thead>
<tr>
<th>NAME OF ORGANIZATION</th>
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<tbody>
<tr>
<td>Stone In. Head Association</td>
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<tr>
<td>Society of Economic Geologists</td>
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<tr>
<td>Recline Geological Society</td>
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<tr>
<td>Assn. of Windy Corner Watchers</td>
</tr>
</tbody>
</table>

13. **PROFESSIONAL AFFILIATIONS:**

<table>
<thead>
<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>Overturn D. Betz</td>
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<tr>
<td>D. V. Grabenhorst</td>
</tr>
<tr>
<td>Sal Ting Zeeman</td>
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</tbody>
</table>

14. **Have you ever been convicted of a crime?** 
(Excluding minor traffic offenses)

If answer is Yes, explain fully under Item 18 or as a separate sheet.

15. **Have you ever had an application for registration or certification revoked?**

If answer is Yes, explain fully.

Nevada revoked in 1963 for failure to pay fees.

16. **List the names of three responsible geologists who are in business or association with you:**

<table>
<thead>
<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>Mr. Hugh N. Krye</td>
</tr>
<tr>
<td>Miss Sandy Talus</td>
</tr>
<tr>
<td>Madam Golden Rose</td>
</tr>
</tbody>
</table>

17. **List the names and addresses of these responsible members:**

**NAME**

**ADDRESS**

Mr. Hugh N. Krye
Miss Sandy Talus
Madam Golden Rose

18. **REMARKS:** Use this space for amplifying remarks and for necessary details.

**Item 14.** Caught by California Highway Patrol in June, 1966, at scene of the Santa Barbara oil well.

State Fish and Game Wardening officer failed to obtain an 18-foot sea lion.

Fined $69.99 for possession of a California sea lion.

**Item 15.** These were received from people who collected the reward leading to my whereabouts.
Experience

Number each engagement in inverse chronological order, beginning with your present engagement in the practice of geology. Summarize each engagement—brevity is welcome, but be specific and detailed in evidence of your responsibility and the nature of your work. Leave blank any degree of your responsibility and the nature of the geological decisions you have been required to make. Additional sheets may be used, as necessary, to describe your complete experience record.

### SUMMARY OF ENGAGEMENT:

Detailed mapping and section work along the spring line of the lower Market Street BARTS. This work conducted in cooperation with the efforts of the California Earthquake Prediction Society. Late prediction April 13, 1969, caused a minor evacuation along spring line of the lower Market Street BARTS. This work conducted in cooperation with the efforts of the California Earthquake Prediction Society. Late prediction April 13, 1969, caused a minor evacuation when all right lateral movement on the San Andreas fault was to be converted to dip slip down to the basin. Some have concluded this theory was influenced by the recent increase in real estate values of the newly established resort Las Vegas-By-The-Sea.

### SUMMARY OF ENGAGEMENT:

Presented a detailed description of the late Pleistocene micro-organism Coccolithophoridae dinoflagellidae. This fauna was found in deep water near Westend in a land-locked environment. Also, conducted original research in the density currents found in Searles Lake.

### SUMMARY OF ENGAGEMENT:

Suba diving geologist for various California organizations. Supplied detailed geologic reports including maps and sections for 57 prospects in the Channel. Silent representative on various group shoots and core hole programs. Relief geologist on Mohole location south of Iceland. Resulting blowout has recently been named Sirtsey by the Topographical and Geographical Names Committee.

### SUMMARY OF ENGAGEMENT:

Geologist in charge of surface mapping, central San Joaquin Valley area, between Tehachapi and Simmer. Well site geologist for Ace Oil Company. Measured and documented thick Pleistocene section exposed along Highway 33. Job terminated when red and yellow jeep went over topless cliff and fell into one of the bottomless pools often found in the vicinity of Tulare Lake.

### SUMMARY OF ENGAGEMENT:

Spent two seasons on detailed planetary surface work over and research in the tetons. Winter resorts and laboratory experiments conducted in the geothermal area, Yellowstone. Paper presented as Occasional paper entitled "Typical Paupuagesynclinal Turbidites of the Upper Cretaceous Rancid Formation".
Lectures will be given on successive Tuesdays at 4:15 P.M. in Science Lecture Hall 102

Sept. 30. Raymond L. Knight
Data Processing and Services supervisor, Mobil Oil Corp.
California Area Exploration
"Gas Show Pattern at McMullen Ranch, Sacramento Valley"

Oct. 7. Dr. H. Mark and Dr. J. Mattson
Dept. of Chemistry
University of Michigan
"Infra-red Spectroscopy of Suspended Marine Sediments, Minerals, and Organic Materials"

14. Dr. Richard Casey
Associate Professor
San Fernando Valley State Col.
"Paleo-oceanographic Significance of Radiolarians in Santa Barbara Basin"

21. (a) Dr. Sigmund Snelson
Staff Geologist
Shell Development Company
"Oil Exploration in North Alaska"
(movie)
(b) Award of Clements Scholarship

28. Dr. James L. Bischoff
Assistant Professor
USC
"Red Sea Geothermal System"

Nov. 4. Dr. Bernard W. Pipkin
Senior Lecturer at USC and Consulting Engineering Geologist
"Electrical Conductance of Soils Under Stress"

Host Jack Wood, whose culinary skills are widely recognized, and Red Lagomarsino supplied the ingredients for another successful Coast Geological Society annual barbeque held on August 9, 1969 at the Lagomarsino Ojai Valley ranch. Fifty-four members and guests were present for an afternoon that included bocce ball, swimming, ping pong, pool and shuffleboard.

NOW HERE THIS!

TULSA -- Four major international societies concerned with exploration for oil and gas have joined together to form the Petroleum Geologists, American Association of Petroleum Landmen, International Oil Scouts Association, and the Society of Exploration Geophysicists.

The presidents of the four organizations with their respective staff directors met in Tulsa recently to organize the council.

A joint statement was issued on the council's objectives:

"The organization will speak with one voice for those professional organizations charged with finding the nation's future energy requirements. The council, through a coordinated effort, will take steps to encourage and assist in the replenishment of our rapidly depleting reserves of oil and gas so that the nation's growing hydrocarbon energy requirements will be met."

PERSONAL ITEMS

The DON HALLINGER'S have a new addition, Deborah Lynn born June 9, 1969.

Rapture of the deep has a firm grip on DICK HESTER. To solve his malady he recently changed his address to Marine Resources Consultants, Inc., Santa Monica.
Percentage depletion has been on the federal law books for 43 years. And for 36 of those years, it has been viciously attacked as an unfair "loophole" for avoiding taxes. It's happening again.

The attackers have been highly placed: Former presidents, cabinet members, lawmakers, college professors. As well as unwashed radicals, uninformed housewives, and entertainers who make poor jokes.

Congress through it all has refused to junk the provision or even modify it.

Why have the attacks by so-called tax reformers failed?
Several reasons.
Opponents haven't advanced a single new argument that wasn't thoroughly considered prior to passage of the 1926 measure.
Congress consistently has decided benefits outweigh costs.
Depletion also is tied closely to the basic concepts of our constitution. These are: Never tax capital. Tax only the income from capital. Taxing away capital is likened to killing the goose that lays the golden eggs.

Why then do the attacks persist?
Taxes are pinching everyone. They always go up. Never down.
The bureaucratic tax-spenders as well as tax-burdened companies and individuals are eager to shut off tax avoidance to ease the pinch. It's easy to level an emotional diatribe against depletion and then hoot down any reasoned explanation of the complex issue.

That's why we must examine the issue constantly.

PERCENTAGE DEPLETION has two objects: Recover the producer's capital. And give him an incentive to drill more wells, find more oil.

How does it work?
Striped of its emotional setting, percentage depletion is simply a deduction available to oil and gas producers—and producers of more than 100 other minerals—in figuring their taxes on income from wells.
The producer may deduct 271/4% from the gross annual income of a lease or property. This is tax free. The figure, however, may not exceed 50% of the net income of the lease. This limitation actually prevents most producers from taking the full deduction. In practice, it averages only 23% and in many cases is much less than that.

This policy recognizes that oil in the ground is part of the producer's capital. It is like real estate. But it is not capital in the usual sense.

This policy recognizes that oil in the ground is part of the producer's capital. It is like real estate. But it is not capital in the usual sense. Capital is used up—or depleted—by operation of an oil or gas well. The rate of deduction, when determined 43 years ago, was estimated as equal the capital value of oil in the ground. It's now probably less, and a higher rate would be more equitable.

Opponents, however, favor stripping depletion back until it assures the producer he will recover his actual investment or costs in a lease. After this amount is recovered over a period of time, deductions would end. The producer's income taxes would increase. Thus cost depletion would serve a function similar to depreciation.

This overlooks the unique position of oil as capital in the ground. It also ignores the unusual risks involved in finding replacement petroleum. Depletion encourages the producer to hunt new reserves—depletion hasn't.

Say, for an example, an oil man recovered only his lease costs by deductions. He has no assurance he can take this fund, drill a single well and come up with any oil or gas. The odds are he will drill nine dry holes for every producing well. And what's more, he'll drill 46 marginal wells to every 1 that nets out a profit. Depreciation funds would melt quickly under these odds. But depletion funds from one good well give a producer the financial staying power to keep drilling.

WHAT WOULD HAPPEN if percentage depletion were ended?
It would drastically curtail the hunt for oil and gas. Our reserves would dwindle even more. Why? Because operators would become more selective and cautious in their drilling plans. They'd drill only the better prospects, shun the costly and high-risk ones.

BUT THE CRITICS CRY: "Some companies pay no income tax at all. That's unfair."

Let's examine this one carefully. It comes up every time taxes are mentioned. It's becoming cause celebre among oil-industry critics.

In the first place, any producer who completely escapes income taxes doesn't do so with percentage depletion alone. The "50%-of-net-income" limitation prevents that. So, he must use the benefits of other deductions—most likely the expensing of intangible drilling costs and write-offs for dry holes.

By way of explanation, drilling costs come in two kinds. Tangible drilling costs, such as cost of tanks, equipment, and structures, are depreciated over the years. No argument here. Intangible costs, such as expense for wages, fuel, repairs, and all services, may be recovered the same way or as an operating expense in the year incurred. Most oil men elect to expense the intangibles. This allows them to get their money back more quickly to use in further operations.

Expensing of intangibles does reduce the net income of the lease, even may create a loss. All this reduces the total subject to income tax.

There are a few facts, however, to keep in mind. The producer can deduct intangible expenses only once. They tend to reduce benefits of percentage depletion. And the producer, in order to have intangible deductions, must keep on drilling. This is exactly what the tax policies are designed to do—keep oil men drilling.

WHAT ELSE DO CRITICS find wrong about percentage depletion? What do they suggest?
Here are a few, and the answers to them.

- Depletion allows companies to offset income from other sources, escape more taxes.

Percentage depletion cannot reduce taxable income from any source except the one lease or property on which it is computed. Oil companies aren't escaping taxes even if the bite of the income tax is lighter on them. It may surprise many to know that the total tax burden of the petroleum industry actually is heavier than average. In 1966, oil paid $2.5 billion in direct taxes. This $2.5 billion amounted to 5 1/2% of gross revenue from all operations. The direct tax burden for all U.S. business corporations was only about 4.5% of gross revenue. This is about 10% less than the tax burden of petroleum. That plays hob with the contention that oil companies don't pay taxes.

- Oil profits are exorbitant. Too many oil millionaires are created by percentage depletion.

The average profit of 99 oil companies in 1968 was 12.9% return on net worth. This is below the 13.1% return on net worth earned by 2,250 manufacturing companies. There's certainly nothing exorbitant about this. Percentage depletion hasn't made oil millionaires. Oil fortunes rise from the combination of an individual's ability, stubbornness, and luck in finding oil. Success in finding oil is the key—not percentage depletion.

- Oil producers don't use tax savings to look for more oil and gas.

The figures show differently. Statistics indicate oil producers would pay $1.3 billion more annually in taxes if present policies were ended. In the last 10 years, they have spent this—in other words, $3.1 billion more on exploration and development.

- The depletion rate of 271/4% is too high. Cut it to 20, 15, or 10%.

This is begging the question. A lower rate won't satisfy the critics. They'd be back at the next session to whittle away at the lower rate. As we've noted, the present rate probably already is too low to achieve an adequate return of capital. If it were lower, percentage depletion also would lose effectiveness as an exploration incentive. It would give oil men too little money to finance new drilling. Outside investors would fear other cuts. Uncertainty of their return piled on the normal risk of exploration would cool them on new ventures. Exploration needs to be made more attractive to risk capital—not less.

- Eliminate all deductions and grant an outright federal subsidy to encourage exploration.

Can you imagine what kind of drilling program would emerge if it depended on annual appropriations from Congress? What a boondoggle this opens up! The drilling decision-makers would be bureaucrats who are subject to political pressure and not fitted by training or position to take risks involved. Where would the savings be in this approach?

THERE ARE OTHER arguments. None really new. All have been refuted time and time again. The fact they are being taken seriously is the big surprise.

It is especially surprising in view of the present low state of petroleum exploration. That's the new circumstance in the whole fight.

Our reserves of oil and gas are dwindling at a time they should be rising twice as fast. Spending on exploration should be doubled. Oil and gas now furnish 75% of our nation's energy. We're using petroleum at such a clip that consumption is expected to double by 1980.

Tampering with any policy that encourages exploration for petroleum is courting disaster. The facts speak just as clearly and loudly as ever against changing either the rate or principle of percentage depletion. Congress will serve the nation best by again refusing to change this policy.
On February 2, 1970, the AGI, operating under contract with the National Science Foundation, will mail to all geologists, geophysicists, and other earth scientists in the United States, the biennial "National Register of Scientific and Technical Personnel". The Register is maintained by the NSF by directive of the Congress, and the AGI is responsible for the Earth Science portion.

Information derived from the Register serves important needs in providing industry, educational institutions, and governmental agencies with a picture of the status of our professional and scientific activities. It is also used to identify individuals with specialized training and ability to serve our country in times of emergencies. Manpower studies of the AGI, and resultant reports, are in large measure based on analyses of the statistical data derived from the Register. These analyses provide our profession with information on supply and demand of earth scientists, educational, age, and service characteristics, salary ranges and medians, and an on-going picture of the mobility of our profession. Reports are regularly published in Geotimes.

pre-publication offer!

It is imperative that the RMAG know how many copies of the Geologic Atlas of the Rocky Mountain Region to order in the first — and probably last — printing.

It is equally important for the RMAG to receive payment for as many copies as possible in advance so that the Association can meet its financial commitments as they become due.

Therefore the RMAG earnestly requests that you

order now — pay now

at the pre-publication price — $25 a copy (tax deductible)

Special notice: Once the Atlas is in print, copies will cost about $35 each as long as the supply lasts.

Requests for copies will be honored in the order in which they are received.
ASSOCIATION ACTIVITIES

GEOLOGICAL SEMINAR ON THE NORTH SLOPE OF ALASKA
by
United States Geological Survey
under the joint auspices of
Pacific Section,
American Association of Petroleum Geologists
and
Northern California Geological Society
February 2 and 3, 1970
Cabana Motor Hotel, Palo Alto, California

Accommodations
Ample housing is available at the Cabana Motor Hotel
and other motels along El Camino Real in Palo Alto.
Prices range from $8 to $26 a night. Good eating
facilities in every price range are located along El
Camino Real. Cars will be necessary for transportation.

Tentative Schedule
In order to promote the exchange of ideas, a discussion
period of 15 minutes has been allowed for each 30-
minute paper. Prepared discussions are invited, and all
all spontaneous discussion is welcome. Plans to
publish the papers and their discussions are being
made.

Sunday, Feb. 1
5:00-7:00 p.m. Registration and no-host cocktail party

Monday, Feb. 2
8:00 a.m. Registration at auditorium
9:00 a.m. Opening ceremonies:
J. Douglas Traxler, President, Pacific Section, AAPG
Kenneth H. Crandall, President, AAPG
Harold L. James, Chief Geologist, U.S. Geological Survey

10:00 a.m. Coffee break
10:15 a.m. "History of Petroleum Exploration in
Alaska", by George Gryc

11:00 a.m. "Depositional History of northern
Alaska", by William F. Broage

11:45 a.m. Lunch break
1:30 p.m. "Tectonics of the western Brooks
Range", by Irvin L. Tailleur.
2:15 p.m. "Geology of the eastern Brooks Range"
by Hillard N. Reiser.
3:00 p.m. Coffee break
3:15 p.m. "Gravity and other regional geophysical
data from northern Alaska", by David F. Barnes
4:00 p.m. Adjourn session
5:00-7:00 p.m. Cocktail party, Cabana Motor Hotel

Tuesday, Feb. 3
9:00 a.m. "Thermal problems related to economic
development in permafrost terrain", by
Arthur H. Lachenbruch

9:45 a.m. Coffee break
10:00 a.m. "Sedimentary history of Saddlerochit
and Shublik Formations", by Robert L.
Dettman

10:45 a.m. "Pre-Carboniferous carbonates of
northern Alaska", by J.T. Dutro, Jr.

11:30 a.m. Lunch break
1:00 p.m. "Biostratigraphy and dolomite porosity
trends of the Lisburne Limestones", by
A.K. Armstrong

1:45 p.m. "Correlation of fold belts of Alaska,
Canada, and Siberia", by Michael Churkin

2:30 p.m. Coffee break
2:45 p.m. "Reconnaissance geology of the Chukchi
Sea as determined by acoustic profiling"
by Arthur Grant, B.C. Wolf, Lloyd
Breslaw, and Thomas Johnson.

3:30 p.m. To be announced
4:15 p.m. Adjourn session

Guided tours of the United States Geological
Survey Research Center, 345 Middlefield Road, Menlo
Park, Calif., will be offered sometime during the
seminar. These will include the National Earthquake
Center, and Marine Geology Unit.

All inquiries should be addressed to:
John C. Maher, General Chairman
U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025
Telephone: 415-325-6761, ext. 462

All reservations should be mailed to:
Fred R. Kelly
Division of Mines and Geology
Perry Building
San Francisco, California 94111

ALASKA GEOLOGICAL SOCIETY

Newly elected Alaska Geological Society officers
of 1969-70:
President-----Ernest B. Lian--Marathon Oil Co.
Vice-President--Alexander Sisson--Union Oil Co.
Secretary-------Robert Barker--Atlantic Richfield
Treasurer-------Dr. William Long--Alaska Methodist
University
I have received several communications regarding our budget and will quote one geologist's idea in the hope of prompting additional discussion.

"In response to your request for comments about your report in the Aug.-Sept. issue of Pacific Petroleum Geologist, I wish to go on the record against a raise in dues. Though I am well aware of the general increase in cost of running our professional organizations, I have yet to see any of our leaders decide to cut back on some of the frills and desirable but unnecessary services. Always the response is the same—raise the dues. Well, I'm fed up with raises in dues. As a protest I have severed my membership in one professional society this year, and I will take similar action with my remaining affiliations unless you and other leaders take steps to live within your budget instead of soaking us for additional dough every time the well starts to run dry."

We can solve our problem by limiting or transferring some of our expenses (which we have done) and live off of past savings (which we are doing). To further reduce expenses—the major one is this newsletter—means reducing our only means of communication. I feel we should promote communications, not decrease them.

Doug Traxler

NOTICE: AB 600 - REGISTRATION OF GEOLOGISTS

To avoid a written examination, that is to qualify under the "Grandfather Clause", qualified individuals must file applications by November 13, 1969. Applications can be acquired by interested individuals by writing directly to:

Edward C. Winslow
State Board of Registration for Geologists
1221 0 Street
Sacramento, California 95814

INVITATION

The Pacific Coast Section of the Society of Exploration Geophysicists cordially extends an open invitation to an event that promises to be an outstanding symposium on "Seismic Waves From Vibrational Sources". Speakers will include John Crawford (Continental), Raymond Peterson (United), Emers Robinson (Biglin), Charles Dick (Western), Milton Dohrin (United - BB), Jerry Harmon, Dick Maxwell (S.I.), John Bradshaw (Selcom), John Cosgrove (Olympic), R.A. Eroding (S.S.C.), Ed Zagst (Nay).

The symposium will be held on November 14 at the Proud Bird Restaurant, 11022 Aviation Blvd., Los Angeles, next to the Los Angeles International Airport. As with last year's "Velocity Symposium" the registration will begin at 0900 and will include lunch, reception, and dinner. To assure your reservation and a bound preprint edition of the papers, please enclose a check for $13.00 to:

Mr. James Walker
Shell Oil Company
P.O. Box 3397, Terminal Annex
Los Angeles, California 90054
MRS. MURATA, formerly with Standard Oil Company of California in La Habra, California has joined King Resources Company as District Geologist of their West Coast office.

DON HAGEN, Texaco, has been recently transferred to Calgary, Alberta, Canada. As usual one house for sale—requires little yard upkeep.

At the last Coastal Geological Society meeting Doug Truluck, Sinaloa, wasn't a bit bashful about picking up the first raffle prize bottle of boozes, too chicken to pick up the second, and ask Jim Taylor who was sitting along side about the third—Is that luck??

JOHN LOGFEOROW is now working for Westates Petroleums. He may be reached in the Global Marine headquarters building, 911 West 7th St., Los Angeles.

MRS. VIRGINIA LE ROY, a former Bakersfield resident, died while in Canada with her husband, William H. Le Roy. Services and interment were held in Bakersfield.

Museum of Natural History for the past 31 years, has retired from the Museum to devote full time as Director of the WESTERN ETHNOLOGICAL INSTITUTE. Orr will be remembered among Channel Island Oil Geologists for his thirty year study of the Pleistocene terrestrial deposits which cover oil-bearing strata with old dwarf mammal bones.

NURSERY NEWS
Jim Moore of Union Oil become the proud father of an 8-lb baby girl, Jennifer Anne.

BIBLIOGRAPHY
OF RECENT PUBLICATIONS
JOURNAL OF GEOLOGY, vol. 77, no 4, July 1969
Stream lengths and basin areas in topologically random channel networks, by Ronald L. Shreve.


Intrastratal solution and non-opaque heavy minerals in shales, by Harvey Blatt and Berry Sutherland.

Bioturbation of Holocene sediment on La Jolla Deep Sea Fan, California, by D.J.W. Piper and N.F. Marshall

The sedimentology of a braided river, by Peter F. Williams and Brian R. Rust

CALIFORNIA DIVISION OF MINES AND GEOLOGY
San Bernardino Sheet, Geologic map of California, Scale 1:250,000. Compiled by Thomas K. Rogers (Folded or unfolded editions) $1.50

Professional Paper 283-C: Effects of tectonic structure on the occurrence of ground water in the basalt of the Columbia River Group of the Dallas area, Oregon and Washington, by R.C. Newcomb. $1.25

Professional Paper 641-B: Isotopic composition of diagenetic carbonates in marine Miocene formation of California and Oregon, by K.J. Murata, Irving Friedman, and B.M. Medwin. $.75

Professional Paper 622-A: The behavior of straight open channels with movable beds, by Thomas Maddock, Jr. $1.00


Professional Paper 678: Permafrost and related engineering problems in Alaska, by O.J. Perrians, Jr., Reuben Kachadoorian, and D.W. Greene. $1.00

Bulletin 1211-C: Geology of proposed power sites at Deer Lake and Kaunyuki Lake, Bemot Island, north eastern Alaska, by A.A. Wanek and J.E. Calhoun. $1.00

Bulletin 1214-O: Element distribution in some Paleozoic black shales and associated rocks, by J. B. Vite. $.25


Bulletin 1271-G: Reconnaissance geology of the Eagle A-1 and A-2 quadrangles, Alaska, by H.L. Foster. $1.00

Bulletin 1274-I: Six new Paleozoic and Mesozoic formations in east-central Alaska, by E.B. Brabb. $.25

Bulletin 1274-K: Summary of Cretaceous stratigraphy in part of the McCarthy quadrangle, Alaska, by D.L. Jones and R.M. MacFutett, Jr. $1.50


OPEN FILED REPORTS (Inspection only)


Analyses of stream-sediment and rock samples from the Fortymile area, Eagle quadrangle, Alaska, by Lela L. Foster and Sandra H.B. Clark.

Analyses of stream-sediment, rock, and soil samples from a part of the Seventymile River area, Eagle quadrangle, Alaska, by Sandra H.B. Clark and Helen L. Foster.
Dr. Hanley L. Natland presented his paper titled "New Classification of Water-laid Clastic Sediments" at the last meeting.

Because of their economic importance as petroleum reservoirs, water-laid clastic sediments may be classified usefully according to their mode of deposition, including transport, which determines to a great extent their lithological composition. Although an infinite number of variables can affect deposition and composition, there are four principal processes of apparent sedimentation which produce characteristic deposits herein designated as turbidites, gravitates, gravity currents, and hemipelagites.

A *turbidite* is a bed of clean, winnowed sand or coarse clastics deposited by moving water which seeks the particles as it sweeps or drags them along the bottom. Turbidites are prevalent in river beds, beaches, shelf-marine areas where bottom currents are strong enough to move coarse sediments. Ripple marks and other current-produced features are common. These beds contain little if any fine particle matter.

A *gravitate* is a bed of poorly sorted clastics, ranging in size from clay to boulders, deposited by a sedimentary flow in which the motivating force is gravity that causes the sediment to move as a unit down a slope with sufficient gradient at speeds ranging from very slow creep to those of considerable momentum. Bedding features are poor because the particles are not in suspension and therefore are not able to respond hydrodynamically. Gravitates, if present, are randomly oriented and scattered through the heterogeneous mass. If the velocity of movement becomes great enough, the sediments may be stirred sufficiently with water to form a suspension mixture capable of generating a turbidity current.

A *turbidity* is a well-graded sedimentary well-deposited rapidly from the time the suspended load of a turbidity current includes all of the intervals, grading upward from coarse sand to silt and clay, resulting from a single flow. Because the prime motivating power of a turbidity current is the density differential between the turbid water with its suspended load and the clear water which it encounters, a turbidity current once generated can move along a flat bottom. Turbidites are well graded because particles in a suspension flow are able to respond hydrodynamically. If the suspended load includes a wide range of particle sizes, a "cohesive" turbidite is formed with at least three distinct divisions, the graded sand interval at the base overlain by the current-sorted interval and the public interval. A turbidite is characterized by features indicating suspension flow, such as preferentially oriented, meandering, hydrodynamically sorted microfossils, and a high (10-20 percent) silt-clay matrix in the graded mud interval. Turbidites contain only reworked faunas if faunas are present.

A *hemipelagite* is a layer of marine debris formed by the slow accumulation on the sea floor of clastics and fine terrigenous particles. Through a hemipelagic deposit generally exists a turbidite, the hemipelagite is not part of the turbidite but is indicative of an interval of quiet between turbidity-current flows. Its thickness is related to the time during which this type of sedimentation takes place without interruption. Hemipelagites contain the only indigenous faunas in the turbidite sequences. Examples of the preceding sedimentary processes and deposits are discussed with aid of slides and motion pictures.

SCOUTS RETIRE

On Friday, August 15, 1969, a retirement dinner for two long-time oil scouts was held in the Anacapa Room of the Pierpont Inn, Ventura, California. The honorees were Harry Williams and M. C. "Barnery" Barnard.

Harry retired effective September 1, 1969 after a long career scouting for Shell Oil Company. Barney completed his scouting career with Atlantic Richfield Company on August 15, 1969.

Both Barney and Harry have been scouting for over 30 years, and a large group of their friends and associates of those many years were on hand to honor them.

After dinner, a presentation of identical attache cases was made to the honorees in recognition of their valuable service and contributions to both the California Coastal and Southern California Oil Scouts Association.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

David J. Cerkel, President, announces the first mid-peninsula luncheon meeting of the Northern California Geological Society for Friday, November 14, 1969.

David A. Phoenix, U.S.G.S., will speak on "Remote Sensors and Geologic Problems" to a luncheon meeting at 11:45 at the Burlingame Ymmt House Hotel, 1335 Bayshore Highway, near San Francisco International Airport.

Reservations should be made with Livingston Porter, Chevron Overseas Oil Co., San Francisco, at 434-7700, extension 3270; or with Robert D. Carter, U.S.G.S., Menlo Park, at 323-6761, extension 508.

SCOUTS RETIRE

On Friday, August 15, 1969, a retirement dinner for two long-time oil scouts was held in the Anacapa Room of the Pierpont Inn, Ventura, California. The honorees were Harry Williams and M. C. "Barnery" Barnard.

Harry retired effective September 1, 1969 after a long career scouting for Shell Oil Company. Barney completed his scouting career with Atlantic Richfield Company on August 15, 1969.

Both Barney and Harry have been scouting for over 30 years, and a large group of their friends and associates of those many years were on hand to honor them.

After dinner, a presentation of identical attache cases was made to the honorees in recognition of their valuable service and contributions to both the California Coastal and Southern California Oil Scouts Association.

PERSONAL ITEMS

Robert Kenneth Kassenbroek, 39, partner in Geologic Engineering Service Inc. died September 22, 1969, after a long illness. Services were held in Whittier California. Many good friends in the petroleum industry attended and paid their last respects to a wonderful gentleman.

Wayne Elliott, palentologist for Atlantic Richfield has announced he will take early retirement after 33 years of service. Wayne expects to do consulting in Los Angeles Basin.

Brian C. Kimmel has just joined Union Oil and is currently training at Union's Santa Fe Springs office. Brian is a recent graduate from the University of Illinois.

Jim Halse, also of Union, was recently transferred from Santa Fe Springs to Union's new Ventura office.

Arthur J. Richards is now employed by the following company: Kern County Health Dept., Div. of Environmental Health, P.O. Box 997, Bakersfield, California, 93305.

Beverly Hills, September 24, 1969 -- Morton A. Sterling and O.W. Pauktleroy today announced the formation of a consulting firm to be engaged in all areas of petroleum exploration, development, and management.

Mr. Gerald R. Marrall is now employed by the Statham Petroleum Company, and is residing at South West Africa.
MAPS

Geologic map of Arizona, by E.D. Wilson and H.T. Moore (Arizona Bar. of Mines) and J.R. Cooper (U.S.G.S.) 1:500,000 $2.50

Map I-595: Geologic map of Oregon, by George W. Walker and Philip B. King. Scale 1:2,000,000 $1.25

Map I-572: Geologic map of the Teller B-4 and southern part of the Teller C-4 quadrangles, western Seward Peninsula, Alaska, by C.L. Stainsbury.

GP 657: AEROMAGNETIC Strip maps across the central Sierra Nevada, Calif $1.00

NEW MEMBERS

Robert O. Albert
2701 Geline Street
Bakersfield, Calif. 93304

William Bacon
3375 West Corning Street
Newberry Park, Calif. 91320

Thomas K. Bjorklund
279 Regis Avenue
Ventura, Calif. 93003

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Kenos J. Straw
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Denver, Colorado 80237

Douglas E. Thamer
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James E. Thompson
Dist. Geol. - Alaska
Sun Oil Company
P.O. Box 2880
Dallas, Tex. 75221

NEW MEMBERS

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Los Angeles, Calif. 90017

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Standard Oil Company
P.O. Box 5278
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Diamond Bar, Calif. 91766

J. D. Weir
233 Bush Street
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George J. Yurkas
P. O. Box 1392
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CHANGE OF ADDRESS

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1001 Cragmont Avenue
Berkeley, Calif. 94708

William E. Bauer
2733 South Knoxville Way
Denver, Colo. 80227

Edwin C. Buffington
Head, Marine Geology Branch
Naval Undersea Research
San Diego, Calif. 92132

Ann Campbell
1333 Jones Street, Apt. 906
San Francisco, Calif. 94109

Richard F. Dordonville
519 West Alam Street
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Edwin H. East
P.O. Box 250
Bellaire, Tex. 77401
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Rome, Italy

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Los Angeles, Calif. 90017

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William G. Kardos
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Gerard E. Marrall
% Etosha Petroleum Company
Grootfontein, South West Africa

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El Cajon, Calif. 92020

Eugene A. Templeton
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Eugene C. Tripp
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3508 Candlewood Drive
Bakersfield, Calif. 93306

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316 North Moore Avenue
Monterey Park, Calif. 91704

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Los Angeles, Calif. 90005

Dennis P. Hickey
5876 Denwood
Lakewood, Calif. 90713

Write Care, Caution, and Conservation
ASSOCIATION ACTIVITIES

FORTY-FIFTH ANNUAL MEETING
PACIFIC SECTION AAPG-SEG-SEPM
MARCH 19-20, 1970
NEWPORTER INN
1107 JAMBOREE ROAD
NEWPORT BEACH, CALIFORNIA 92660

The Annual Pacific Section meetings of the AAPG, SEG and SEPM will be held on March 19-20, 1970 in Newport Beach, California at the Newporter Inn. General Chairman John K. Cassell announces that the Convention theme will be "West Coast Exploration in the Computer Age". Make individual hotel reservations directly with the Newporter Inn reservation desk.

Aapg General Chairman, John K. Cassell, SEG Chairman, Dan O'Halloran and SEPM Chairman Alvin Almgren request that individuals who wish to present papers at the meetings contact their respective Chairman as soon as possible for additional information.

SEPM FIELD TRIP-A SMASH

The annual SEPM sponsored fall field trip and dinner meeting at Ojai turned out to be a huge success. Under the capable coordination of chairman, Jim Taylor, and the tireless efforts of the trip leader, Bill Dickinson, much interesting geology was made available to us under most pleasant circumstances.

After a delicious prime rib dinner Friday evening at the Oaks Hotel we settled down to a thorough orientation of the Upper Sespe Creek area by Bill Dickinson, Dave Chipping, Don Lowe, and Jim Ingle. Saturday morning we embarked on three buses and proceeded up over the summit of Pine Mountain to Ozena Station. En route we observed many excellent outcrops of Eocene Junocal, Matilija, Cozy Dell, and Coldwater formations and Oligocene Sespe. Valuable knowledge was contributed by Peter van de Kamp, Willard McCracken, and others at some of the stops.

On the way back down one bus load, guided by Don Lowe, split off from the group and took an interesting side trip to look at Miocene rocks of the Monterey and Santa Margarita formations.

DEPLETION

Calgary, Alberta—Reduction of the 27½ per cent oil and gas depletion allowance in the United States could cause a "serious crisis" in the geology profession in Canada, and even threaten the stability of that nation's dollar, a group of Albertan geologists warns.

GEOLOGY OF THE NORTHERN CHANNEL ISLANDS

The long awaited publication, "Geology of the Northern Channel Islands," by Donald W. Weaver, et.al. is now printed and available. From first-hand inspection, it appears to have been well worth the effort. It is a magnificent collection of maps, sections, photographs and written text on the geology and paleontology of the Channel Islands including 34 illustrated plates of the micro and megafossils encountered. It is truly a monument to West Coast geology and to the cooperative efforts of the many members of the Pacific Sections of AAPG and SEPM who made this publication possible.

Those of you who have pre-publication subscriptions may pick up your volumes from either Don Hallinger at Pacific Lighting Service Co. in Los Angeles or King Nash at Mobil Oil Corporation in Santa Fe Springs. Otherwise, you will eventually receive your copy in the mail when things are organized.

Don Hallinger, who is the new Publication's Chairman for AAPG, is now accepting new orders for the Channel Islands publication at $13.50 per copy (mailed) including a set of geologic maps of the islands. Make checks payable to Pacific Section AAPG. Don's address is: Pacific Lighting Service Co., 720 West 8th Street, Los Angeles, California 90017, Telephone - AC213, 689-3649.

MERRY CHRISTMAS
In January 1970 a new, revitalized and beautiful (?) P.P.G. newsletter will appear. Deadlines for new issues will automatically fall on the 25th day of the preceding month. The new issue will be published and mailed to you during the first week of the month of publication. Comments, constructive criticism, and letters to the editor are invited.

Correspondence from any Pacific Section member, whether regarding personals from his company or an article for consideration, is urgently needed. A glance at the "personals" section of this issue will reveal an Alaskan domination—has the remainder of the Pacific Coast section become extinct? Regarding correspondence, it would considerably lighten the editorial (and Secretarial) load to have articles typed (IBM electric) single spaced and in columns 4½ inches wide. However, anything (/) would be better than nothing!

Abstracts or short papers of interest and previously unpublished will find a place in future issues. If you wish to rush into print please submit your copy to the editor. (A copy of the style and format suggested is available upon request)

A last word—we are in need of another assistant editor and a cartoonist. Please contact the editor at (213) 693-0771 extension 265 if you can spare one afternoon or evening per month.

P.J.F.
OIL IMPORT QUOTAS

Terminating proposed elimination of oil import quotas "national suicide," the president of the world's largest geological society recently urged President Nixon to "give your most thoughtful consideration to the grave consequences" of this possible action and asked to meet and discuss the matter with him.


"There are few issues in the history of the United States which have had more serious implications, and which have required more careful consideration than the current proposal to abandon the present controls on the importation of oil," the AAPG president wrote.

At a press conference, he told newsmen that elimination of import quotas will "sound the death knell to the domestic petroleum exploration industry," which he said is composed of "the finest group of explorers, scientists and technicians the world has ever seen. Once disbanded, this organization, which has been responsible for finding the major portion of the world's crude supplies, would be difficult, if not impossible, to reconstruct."

"For a very dubious reward," he continued, "we are giving up something that is very tangible, why we would give up a position of world leadership in exploration to take such a suicidal stand, I cannot understand.

"I frequently fly from my home in San Francisco to Los Angeles, and see city after city, lights as far as you can see and thousands of cars, and know that there is not a light that burns or a wheel that turns that is not fueled by oil and gas. To place all of that at the whim of foreign nations . . . I wonder. I really wonder. If the American people really realize that this would mean economic suicide.

"If I were an enemy of this country, and wanted to destroy it, I'd strike a blow at the domestic oil and gas exploration industry."

Elimination of oil import quotas, he said, would immediately destroy the domestic exploration industry and over the long haul result in the dismantling of the domestic production industry as well.

"We could be left dependent upon the crude from the Middle East, which is the only area with a surplus in production. Some of these countries have shown themselves to be rather unpredictable as crude oil sources as demonstrated by their embargo on crude during the 1967 war with Israel.

"Our economy depends upon crude oil supplies. In an emergency, we could probably have stored up a reserve good for a couple of years, but others could just hang on and wait for us to run out. Then we would be at their mercy."

In the letter to President Nixon, Mr. Crandall cited fears in the financial community of a crippling of oil industry activity, potential loss of tax revenues to state and federal governments, and vulnerability of the nation's defense capability as questions that need serious consideration.

"We are," he wrote, "extremely concerned about our nation's future as well as the future of our profession."

Pacific Section members will receive a copy of Mr. Crandall's letter in the very near future. All concerned explorationists should write President Nixon their personal views on this subject, before our President makes an executive decision on import quotas.

J. D. Traxler

GEOLOGIC TECHNICIAN-BAKERSFIELD COLLEGE

Beginning with the Spring 1970 semester, Bakersfield College will offer a new program in geological education. The curriculum is designed to train geologic assistants to work in selected phases of geology and petroleum exploration. Upon completion of the two year program, graduates will be designated as Geologic Technicians, with options in five categories. The options are designed to give students concentrated studies in the areas for which they are best suited. These include Drafting, Engineering, Paleontology, Land and Legal, and General Option.

Several oil companies are establishing Book Scholarship Funds to assist those minority group students who find that the cost of text books would eliminate them from the program.

This is a new program and is believed to be the first of its kind in the country. The need for technical assistance is growing in the petroleum industry and the program has been received with enthusiasm, even in the light of recent cut backs.

Comments, suggestions or questions about the Geologic Technician program should be directed to the Chairman, Geology Department, Bakersfield College, Bakersfield, California, 93305.

Happy New Year
PRESIDENT TRAXLER ANNOUNCES THE FOLLOWING COMMITTEE APPOINTMENTS FOR NORTH SLOPE SEMINAR, FEB. 1-3, 1970, CABANA HYATT HOUSE, PALO ALTO, CALIF.

GENERAL CHAIRMAN—John C. Maher
U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025

PROGRAM COMMITTEE:
George Terry, Chairman
A. K. Armstrong
William F. Barbat

REGISTRATION AND HOUSING COMMITTEE
Fred R. Kelley, Chairman
Division of Mines and Geology
Ferry Bldg., San Francisco, California, 94111
Robert D. Carter, Vice-Chairman
Pauline Drohan
Sandra H. B. Clark
Allen L. Clark

GENERAL SERVICES COMMITTEE
Charles M. Cross, Chairman
Edward H. Cobb, Vice-Chairman
Bela Csejtey, Jr.
John S. Kelley

EXHIBITS COMMITTEE
Irvin L. Tailleur, Chairman
John H. Feth
William P. Brosge
Thomas A. Ovenshine
Walter C. Black

PRINTING AND PUBLICATIONS COMMITTEE
W. L. Adkison, Chairman
Peter J. Fischer
Raymond L. Elliott
Susan G. Bartsch

ENTERTAINMENT AND TOURS COMMITTEE
Robert J. Lantz, Chairman
Robert L. Boardman

FINANCE COMMITTEE
John W. Bedord, Chairman
J. Douglas Traxler

ALASKA-COOK INLET SECTIONS

The Cook Inlet Stratigraphic Sections, compiled by the Alaska Geological Society, are now available for purchase. They consist of four Stratigraphic Sections and a Columnar Section. They can be ordered from the Alaska Geological Society, P.O. Box 1288, Anchorage, Alaska 99501, for $18.50 per set, which includes airmailing rolled copies. The price is $15.00 per set in Anchorage.

GEOLOGICAL SEMINAR ON THE NORTH SLOPE OF ALASKA

Early response to the announcement of the North Slope seminar, to be presented by the U.S. Geological Survey, and sponsored by the Pacific Section A.A.P.G. and the No. California Geological Society, has been very favorable. As of November 7th, some 215 have indicated that they expect to be in attendance at the meetings, February 2 and 3, 1970, in Palo Alto. All space set aside at the Cabana Hyatt House has been spoken for, and additional registrants are being placed in Rickey's Hyatt House across the street. If additional space is needed, latter registrants may be placed in other accommodations in the vicinity.

As an indication of the wide interest in this seminar, 12 applicants have come in from Alaska, 9 from Canada, 19 from Texas, 6 from Oklahoma, and 9 from Colorado and Wyoming, with the largest numbers coming from West Coast areas. Some 32 oil companies and operators are represented to date.

Inquiries regarding the seminar should be addressed to:
John C. Maher, General Chairman
U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025
Telephone: (415) 325-6761, ext. 462

All reservations should be mailed to:
Fred R. Kelley
Division of Mines & Geology
Ferry Building
San Francisco, Calif. 94111

ALASKA GEOLOGICAL SOCIETY

Current membership in the Alaska Geological Society numbers 208 and is expected to continue growing as new arrivals to Alaska join the organization. A new directory of AGS is being compiled and those interested in appearing in the directory should join by December 15. Applications can be obtained from the Alaska Geological Society, P.O. Box 1288, Anchorage, Alaska 99501.

NORTHWEST GEOLOGICAL SOCIETY

The first meeting of the Northwest Geological Society 69-70 "season" was held October 22 at the Sherwood Inn at Seattle. Dr. Howell Williams of the University of California at Berkeley spoke on Volcanoes.

Petroleum gases and liquids, often occurring together, are found in the same types of traps by the same exploratory methods and are exploited and produced in the same manner. Moreover, all crude oil contains some natural gas, but nearly 75 percent of all natural gases are not associated with crude oil in the reservoir. The two phases of petroleum are highly competitive.

There are important differences in the physics and chemistry of natural gases and crude oil. Natural gases are a mixture of various organic compounds, usually accompanied by smaller amounts of inorganic elements and compounds. Natural gases of commerce are petroleum natural gases, although helium and hydrogen sulfide, also natural gases, may be valuable components. Even carbon dioxide, also a natural gas, finds markets. Physically, natural gases are highly mobile, difficult to contain, and are soluble in both crude oil and water, particularly under pressure.

Chemically, there are marked differences between petroleum natural gases, and crude oil. Methane is the simplest most ubiquitous and principal component of petroleum natural gases. It is often accompanied by much smaller quantities of heavier hydrocarbons. Natural gases are alkenes: paraffinic, saturated, straight chain hydrocarbons. The division between petroleum natural gases and the somewhat more complex, heavier alkanes occurring with them as vapors, is between propane and butane. Butane and heavier paraffinic hydrocarbons can be found both as normal, saturated straight chain or as isomers; saturated, branched chain hydrocarbon compounds. The substantial chemical differences between the simple compounds of petroleum gases and the far more complex crude oils suggest somewhat different modes of origin. An early and multiple origin for methane seems probable, inasmuch as substantial quantities are found in youngest recent sediments in swamps and glacial drift, and its presence as part of the atmosphere of several of the planets.

The vastly different physical and chemical characteristics of petroleum gases and crude oil have a great bearing on economics of exploring for, developing and producing them. The phenomenal growth in production and the use of natural gas as a form of primary energy have been major factors in decline in growth in need for crude oil. The two substances are directly competitive for space heat-
PERSONAL ITEMS

It is with deep regret that we note the death of Thomas W. Todd, Associate Professor of Geology at the University of California, Davis, California, on October 23, 1969.

It is Mrs. Todd's wish that a memorial fund be established in the University of California, Davis for student assistance. Anyone who wishes to contribute to this fund may send a check made out to the Regents of the University of California, for the T.W. Todd Memorial Fund, addressed to the Geology Department, University of California, Davis, Calif. 95616.

Dave Anderson transferred from Taft to Woodland in charge of Geothermal Operations.

Bus and Helen Ivanhoe have returned from Libya and Rome and are vacationing in Guadalajara, Mexico with the Darrel Kirkpatricks of Bakersfield.

John L. Hardoin also has been promoted to Senior Engineer and transferred to Inglewood.

Mr. Thomas A. Baldwin, Humble, has been appointed Pacific Section AAPG member of the Advisory Council.

Associate Engineer Jerry Barnes has left D.O.G. to return to school at Humbolt State to pursue studies in Fisheries Biology.

Dick Hames, Standard Oil Co. in Bakersfield, has transferred to Chevron Research in La Habra.

Don Lewis, Standard Oil Co. in Bakersfield, has been promoted to Senior Analyst and transferred to San Francisco.

Jim Weddle has been promoted to Senior Engineer and is transferred to Inglewood Dec. 1, 1969.

George Hunter promoted to Supervising Engineer and transferred from Taft to Bakersfield.

SOURDOUGHS

After a summer dominated by security guards, fences, and coded reports, the Alaska Exploration contingent is finally coming out from behind the woodwork just in time to see a little sunshine before the darkness and snow of winter sets in. It was determined after diligent sleuthing that several locals had actually spent vacations in Europe rather than roughing it on the North Slope. These included Tom Wilson, Marathon; Jim Saviers, Pan-American; Bud Marchetti, Schlumberger; Vern Vigoren, Phillips; Rick Nunley, Amerada; Don Jessup, Gene Richards, and Bill Penttila, ARCO. The ARCO people all attended the joint AAPG-British Institute of Petroleum meeting.

Two geologists and three geophysicists have been added to Phillips' Alaska staff. Chuck Darling is the new District Exploration Geologist from Santa Barbara. Gene Fitzgerald, geologist from Lafayette; Bob Allyn, District Geophysicist, and Tom Johnson, geophysicist, both from Denver; and Dave Kappahahn, geophysicist from Bartlesville, round out the group. Darling is said to be tearing up the local YMCA volleyball league. His previous experience with the Phillips 66 Oilers and his 6'8" height may have something to do with it.

Marvin Mangus, formerly of ARCO, has joined the new consulting firm with Bill Fackler and Keith Calderwood in Anchorage.

Don Jessup, ARCO, Anchorage, has been transferred to Dallas as Assistant Chief Geologist. Apparently it takes two to fill his position as Les Brockett from Bakersfield is heading up the Northern Alaska District and Bill Hollingsworth from Sinclair in Denver is the new District Geologist for the Southern Alaska District.

ARCO has transferred to Alaska four former Sinclair geologists. They are Steve Vokurka and Charley Davis, both from Denver; Will Bishoff, Calgary; and John Rogers, Tulsa.

Getty has opened an office in Anchorage staffed by Clyde Cotton, District Geologist from Houston and Don Chapman, District Landman.

George Cook Shell geologist from Canada who has been on loan to the Alaska office, is returning to Edmonton.

Pennzoil geologist Herman Loeb is currently seeking office space in Anchorage. Herman has been transferred from Lafayette.

Karl Kohl, geophysicist from Houston, is joining Union's staff in Anchorage this month.

Dean Lauderman was transferred from Anchorage to Denver as Manager of Planning & Evaluation, Northern Region, Union Oil & Gas Division, Union Oil Co. of California. Harry Lee replaced Lauderman as District Manager of Exploration, Anchorage District. Jean Paul Chevelle is the new District Exploration Geologist, Northern Alaska District.

New arrivals in Alaska for Union include Fred Mankinson from Bakersfield; and John de Benedetti from Santa Maria.

Bill Decker, geologist from Bartlesville, and Jim Davis, geophysicist from Jackson, are recent arrivals in Anchorage for Cities Service.

NURSERY NEWS

All activity is apparently restricted to the "North Slope."
BIBLIOGRAPHY OF RECENT PUBLICATIONS

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 10, October 1969

The structure and tectonic history of the Eastern Aleutian Trench, by Ronald von Hene and George G. Shep, Jr.

Distribution of oxygen and carbon isotopes in fossils of Late Cretaceous age, Western Interior Region of North America, by Harry A. Turneltot and Robert G. Nye

Continental shelf sedimentation in an Arctic environment, by Dean A. Muenas, James C. Kelley, and Joe S. Creager

Thrust faulting along the Lower Rogue River, Klamath Mountains, Oregon, by Ewert M. Baldwin

JOURNAL OF GEOLOGY, vol. 77, no. 5, September 1969

The Lake Missoula floods and the channeled scabland, by J. Marlin Bretz

Distinguishing marine and freshwater muds, by N. F. Shipp, J. Witter, Paul Edwin Potter, and J. A. Schlesicher

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 39, no. 3 September 1969

Type Formation: a study of proximality in turbidites, by J. F. B. Lowell

Quantitative statistical analyses of Columbia River sediment samples, by James G. Kelley and John T. Whetten

Associations of fossils, grain-types, and chemical constituents in the Upper Devonian and Lower Carboniferous limestones of the Bonaparte Gulf Basin, Northwest Australia, by J. J. Vevers.

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Map Sheet 15: Preliminary reconnaissance map of major landslides, San Gabriel Mountains, Calif., by D. N. Morton and R. Straits. $1.00

List of available publications, California Division of Mines and Geology. July 1969 Free

NEVADA BUREAU OF MINES (Mackay School of Mines, Reno)

Map 35: Geologic map and sections of the Southern Chary Creek and Northern Egan Ranges, White Pine County, Nevada, by William H. Fritz. $2.00

U. S. GEOLOGICAL SURVEY

Professional Paper 437-B: Land subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., by B. E. Lofgren and R. L. Klauing $1.25


Circular 619: Subsea mineral resources and problems related to their development, by V. E. McKeilve, J. I. Tracey, Jr., G. E. Stewart, and J. G. Vedder Free

MAPS

I-632: World subsea mineral resources, by V. E. McKeilve and F. F. Wang. $2.75

OM-207: Map of New Mexico showing oil and gas fields, unsuccessful test wells, Precambrian rocks, and pipelines, by S. D. Vilasides and R. A. Biehner. (Reprinted 1969) $1.50

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